

# PowerShell ModuleManager - Help Manual

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### **1** Welcome to PowerShell ModuleManager

#### Managing PowerShell modules has never been easier!



PowerShell modules are an essential component of script development. **PowerShell ModuleManager** makes it easy to search and manage modules installed locally or on a remote machine, ensuring that your modules are always up-to-date.

We are always adding and improving PowerShell ModuleManager. For a complete list of current features, visit the <u>PowerShell ModuleManager product page</u>.

### About this documentation

This help is designed to show you how to use PowerShell ModuleManager and also as an ongoing reference while you are working with the tool. You can do a quick overview to get started, work through the chapters in detail, and refer back to this guide for additional information when needed.

This help manual covers the features and functions included in PowerShell ModuleManager version 1.1.3 and earlier.

#### Getting started - new users

- <u>Download and install PowerShell ModuleManager</u>
- Check out the <u>User Interface</u> section to familiarize yourself with the basics of the program.
- Review the Managing Modules at section to see what features are available and how to use them.
- Visit the <u>support forum</u> to get help from SAPIEN staff and other experienced PowerShell ModuleManager users.

### 2 Introduction

This section provides an overview of the PowerShell ModuleManager features, lets you know how to get answers to your questions, and shows you how to purchase directly online or through a reseller.

### 2.1 About PowerShell ModuleManager

PowerShell ModuleManager is a professional tool for managing your PowerShell modules.

### **Key Features**

- Search the PowerShell Gallery or any other repository for new modules.
- Install, remove, or temporarily disable modules.
- Easily keep modules up-to-date.
- Remove duplicate and outdated module versions to prevent version confusion.
- Filter and find specific modules on your machine.
- Manage modules on remote machines.
- Publish modules to registered repositories.

#### What's New

We are always updating and improving PowerShell ModuleManager. You can learn about the latest product updates on our blog and in the release build log.

- Check out the PowerShell ModuleManager articles on the SAPIEN blog.
- View the PowerShell ModuleManager version history.
- Submit feedback and suggestions.

### 2.2 How to Buy PowerShell ModuleManager

You can buy PowerShell ModuleManager online with all major credit cards. As soon as your transaction completes, you will be able to <u>download and install</u> the program.

For answers to your pre-order questions, check out the <u>SAPIEN Frequently Asked Questions</u> or post in the <u>Trial Software / Pre-sales Technical Questions</u> forum.

### Order link and PowerShell ModuleManager product page

### **Online orders:**

https://www.sapien.com/store/powershell-modulemanager

### Worldwide authorized resellers:

https://www.sapien.com/company/resellers

### PowerShell ModuleManager product page:

https://www.sapien.com/software/powershell\_modulemanager

### 3 Getting Started

This section provides information to help you install PowerShell ModuleManager and keep it up-to-date, and also to understand the general layout of the user interface and know how to get help.

### 3.1 Installing PowerShell ModuleManager

To get started using PowerShell ModuleManager, follow the instructions below to download and install the program.

### Downloading PowerShell ModuleManager

All SAPIEN Technologies software products are downloadable only. Download registered products from your <u>SAPIEN Account Registered Products page</u>.

Select the 64-bit version of PowerShell ModuleManager to download. The installer software will save to your default download folder (e.g., *PMG24Setup\_2.0.22\_010524\_x64.exe*).

Starting with the PowerShell ModuleManager 2020 product release, 32-bit versions are no longer available. Current owners of a license that includes a 32-bit product will have access to that from their <u>SAPIEN Account Registered Products page</u>.

Want to try before you buy? You can download a trial version here.

#### Prerequisites

#### **PowerShell Requirements**

PowerShell v5.0 is required and is, by default, installed with Windows 10. Depending on demand, in the future, PowerShell ModuleManager may support older PowerShell versions.

#### **Required PowerShell Modules**

The PowerShellGet and PackageManagement modules are required. These modules are, by default, installed with Windows 10; we recommend installing the latest versions.

#### **PowerShell Gallery Requirements**

To install modules from the PowerShell Gallery, <u>NuGet</u> must be installed via PowerShell. If NuGet is not already installed, PowerShell ModuleManager will prompt to install NuGet for you:



#### **Internet Requirements**

An internet connection is required if the PowerShell repository designated in Options is an online

source (Options > General > PowerShell > Repository).

#### **Security and Permissions**

PowerShell ModuleManager needs to run with elevated permissions to update modules stored in the Program Files directory.

The following prompt appears when the program is installed or launched: "*Do you want to allow this app to make changes to your device?*"

Select Yes.

#### Installing PowerShell ModuleManager

Follow these instructions to install PowerShell ModuleManager.

#### How to install PowerShell ModuleManager

- **1.** In your default download folder, double-click on the downloaded program (e.g., *PMG24Setup\_2.0.22\_010524\_x64.exe*).
- 2. Reply Yes to the "Do you want to allow this app to make changes to your device?" prompt.

The installation wizard will first check several items, such as available disk space and the presence of previous builds. If the environment is adequate, the installer will display the legal agreement which you must accept to proceed:

- a. Read the terms of the license agreement.
- **b.** Accept the terms of the license agreement. You should never accept license terms unless you have read them, and you understand them.
- c. Once you have accepted the terms, click Install.



3. The installation may take several minutes.



4. When PowerShell ModuleManager successfully completes the installation, click Finish.



### **Troubleshooting Installation**

If you encounter problems installing PowerShell ModuleManager, please report them in the <u>Installa-</u> tion Issues support forum.

To output to a log file use these Installer Log parameters: Installer.exe /exenoui /qn /L\*v .\PMG\_Install.log

### Activating and Deactivating PowerShell ModuleManager

Software activations are outlined in our <u>End-User License Agreement</u>. The number of activations allowed will differ depending on your type of license. For Perpetual Licenses, each licensed user is allowed to have a maximum of two devices activated and operating at any given time for personal use. For <u>Subscriptions</u>\*, each licensed user is allowed to have the software activated on a total of 20 devices with a maximum of two devices operating simultaneously at any given time for personal use.

### **Product Activation**

Registration is required to activate and operate the product, and also to obtain any customer service or technical support benefits. Registration only takes a few moments to complete and provides you with access to special offers including preferred pricing on renewals. *You will need an active internet connection to complete product registration*.

An active internet connection may not be required if you have a legitimate reason for needing <u>offline</u> <u>access</u>. To request offline activation <u>please fill out this request</u>. All requests are considered on a caseby-case basis. Please note: Activation keys belonging to <u>Subscriptions</u>\* are not eligible for Offline Activation.

\* Information about software activations for Subscriptions only applies to SAPIEN Technologies products with a Subscription purchase offer.

#### To activate PowerShell ModuleManager

Welcome to	anthroad Thi		×
	Welcome to the Trial version of		Continue
1	Your remaining trial period is 45 day(s).		Buy Now
	If your trial has expired you can use the "Bu immediately unlock your copy of	y Now" button on the right to purchase and	Cancel
	If you have an Activation Key, please enter	or paste your information in the fields below.	
	Username:	Create account	
	Password:	Activation file	
	Activation Key:		
	Note: Username and password are not requ	ired when using an offline activation file.	
			Version

The first time you launch a SAPIEN product, the Welcome screen is displayed.

The steps to activate the product vary depending on whether or not you already have a SAPIEN account.

Follow the steps in the <u>Quick Guide to SAPIEN Software Activation</u> to activate the software.

If you are unable to activate the product, contact <u>sales@sapien.com</u>.

### **Product Deactivation**

Removing a software activation, also known as "deactivating", allows you to free up an activation for use on another device.

You may deactivate your devices to free up your activations at your leisure, but there are certain circumstances where proper deactivation is crucial to prevent the loss of your allotted activations  $10^{10}$ .

Uninstalling the software from your device does *not* deactivate the activation key.

#### To deactivate your activation key

In the top-right of PowerShell ModuleManager above the ribbon, click the Activation Information button.



The Activation Information window will open.

Follow the steps in the <u>SAPIEN Software Activation / Deactivation FAQ</u> to deactivate your activation key.

### 3.2 The User Interface

This section provides a basic overview of the PowerShell ModuleManager user interface. Details for all PowerShell ModuleManager workspace elements and features can be found in the <u>Reference</u> section.

### The User Interface

The PowerShell ModuleManager workspace lets you view, search, and manage modules using various panels, windows, and dialogs. The workspace places many of the most common operations in easily accessible buttons and toolbars to simplify your module management.

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SAPIENTester	<ul> <li>Update Available</li> </ul>	Azure.Storage	Microsoft Corporation		Azure
	<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation		
	Update Available	AzureRM.Sql	Microsoft Corporation		Microsoft Azure Powershell - Service Management
	Update Available	Containedman	Cisco Systems		Author(s)
	<ul> <li>Up-tp-cate</li> <li>Up-tp-cate</li> </ul>	Concell	Jayshan Nathan Madakar	Latest Version	Addition(s)
	<ul> <li>User Module</li> </ul>	Microsoft PowerShell Operation Validation	Microsoft	530	Microsoft Corporation
	User Module	ModuleProject	User		Installed Version(s)
	Up-to-date	ModuleRequireLicenseAcceptance	farehar	Last Published	5.3.0
	<ul> <li>Update Available</li> </ul>	PackageManagement	Microsoft Corporation	5/22/2018	Polosco Notos
	Update Available	Pester	Pester Team	Downloads	Release Notes
	<ul> <li>Disabled</li> </ul>	PowerHTML	Justin Grote	7 857 141	Set-AzureService
	<ul> <li>Update Available</li> </ul>	PowerShellGet	Microsoft Corporation		
	Disabled	PSReadline	Microsoft Corporation		Minimum PowerShell Version
	<ul> <li>Update Available</li> </ul>	PSScriptAnalyzer	Microsoft Corporation		5.0
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1.0.0.0	C-\Users\Paulette\Documen	ts\WindowsPowerShell\Modules\TestExampleModuleProi			

PowerShell ModuleManager user interface

**A.** Quick Access Toolbar **B.** Main Window **C.** Local Machine **D.** Search and Filter **E.** Ribbon Header Buttons **F.** Ribbon Toolbar **G.** Information Panel **H.** Log Panel **I.** Status Bar **J.** Disabled Modules Panel **K.** Remote Connections Panel

### **Quick Access Toolbar**

The <u>Quick Access Toolbar</u> on the top-left of the program window provides easy access to frequently used functions, and you can easily <u>add your own controls</u> to this toolbar.

#### Main Window

The <u>main window</u>  $16^{16}$  is located in the center of the PowerShell ModuleManager workspace and is a central area for managing modules installed on the <u>Local Machine</u>  $15^{15}$  and any <u>Remote Connections</u>  $12^{16}$ . When the <u>Program Options</u> are accessed, they will also appear in the main window.

#### Local Machine

The Local Machine tab is located in the main window and is used to manage locally installed modules.

#### Search and Filter

The Filter section on the Home ribbon allows you to search and filter 31 installed modules.

### **Ribbon Header Buttons**

The <u>Ribbon Header Buttons</u> on the top-right of the ribbon provide options to minimize the ribbon, change color-themed skins, view license information, and display product information.

#### **Ribbon Toolbar**

The Ribbon Toolbar, or <u>Ribbon</u> is organized in tabs, with each tab containing tools grouped logically by function. Some tools also provide access to dialogs with additional options.

#### **Information Panel**

The Information panel 133 displays details for installed modules

#### Log Panel

The Log panel displays PowerShell ModuleManager output messages.

#### Status Bar

The <u>Status Bar</u> 120 displays the current number of installed modules.

#### **Disabled Modules Panel**

The <u>Disabled Modules panel</u> displays all disabled modules, where they can easily be enabled or uninstalled.

#### **Remote Connections Panel**

Use the <u>Remote Connections panel</u> 137 to add, manage, and remove remote connections. When a remote connection is added and opened, it will appear as a tab in the <u>main window</u> 16.

#### 3.2.1 Local Machine and Main Window

Installed modules are managed in the Machine tab 120, which is centrally located in the main window 16 of the PowerShell ModuleManager workspace. Both local and remote machines will appear as tabs with the name of the machine.

### **Local Machine**

The modules installed on your **local machine** can be accessed from the machine tab in the <u>main win-</u><u>dow</u> of the PowerShell ModuleManager workspace:



Machine tab (Local Machine) in the Main Window

#### How to access module options

### To access options for installed modules

- 1. Highlight a module in the machine tab
- 2. Select the desired control on the Home ribbon

#### -OR-

Right-click and select an option in the context menu

<u>&gt; 2 0 8 -</u>		LAPTOP-	PowerShell ModuleMan	ager			- T	- • ×
File Home Tools He Tools He Tools He Popen Root Module Popen Containing Folde Installer	Ip Oisable Uninstall	Enther tend to search	ې Disabled	Repository Search Repository Search Registered Repositories Repository	Publish Module	<ul> <li>Skip Publisher Check</li> <li>Allow Clobber</li> <li>Accept License</li> <li>Installation Checks</li> </ul>	Panels •	Exaprid All
Remote Connections	ELAPTOP- ×	Name	Author	Information				• •
Home ribbon	Update Available     Repository     Up-to-date     To	AzureRM.Network Update • WindowsPowerSh. Available Versions	Microsoft Cor		AZ Microsoft	UTERM.Netw Azure PowerShell - Net	Ork work service o	mdlets for Azus
	Update Available Repository     Up-to-date	Disable s\WindowsPowerS Uninstall	Context men	u st Version	Manager Author	(s)		
	Up-to-date     Up-to-date	ContainerImage Format-Pester	jayshah Erwan Quelin	6.11.1	Microsoft	Corporation		

The options available on the Home ribbon and the context menu will vary, depending on whether the tab selected is a local machine or a remote connection.

See <u>Finding Installed Modules</u> for details on how to search, sort, filter, and view all modules in the machine tab.

#### Main Window

The **main window** provides a centralized location for managing modules installed on your local and remote machines. The main window also displays the program Options.

The local machine, remote machines, and program options display as tabs in the main window:

LAPTOP- ×	E Desktop-SAPIENTester			
Status	Name 💦	Author		
Ur ate Available	AWSPower hell.NetCore	Amazon.com, Inc		
to-date	Azure Optio	ns osoft Corporation		
· Annan Ann	Azure.S Remote Machine	osoft Corporation		
Local Machine	AzureRI	Microsoft Corporation		
Up-to-date	AzureRM.profile	Microsoft Corporation		
<ul> <li>Update Available</li> </ul>	AzureRM.Sql	Microsoft Corporation		
<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems		
<ul> <li>Up-to-date</li> </ul>	ContainerImage	jayshah		
<ul> <li>Up-to-date</li> </ul>	Format-Pester	Erwan Quelin		
<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation.Validation	Microsoft		
<ul> <li>User Module</li> </ul>	ModuleProject	User		
<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance	farehar		
Up-to-date	PackageManagement	Microsoft Corporation		
Up-to-date	Pester	Pester Team		
Disabled	PowerHTML	Justin Grote		
Up-to-date	PowerShellGet	Microsoft Corporation		

Main Window - Local Machine tab, Remote Machine tab, Options tab

### How to navigate between tabs

#### To navigate between tabs in the main window

• Click the desired tab, or select an option in the Window List drop-down on the top-right:



#### How to view the local machine

#### To view the local machine

• By default, the local machine is always visible in the main window.

If the local machine tab is not visible in the main window you can reopen it by clicking the button on either the Quick Access Toolbar or the File menu (**File > Local Machine**):



### How to view a remote machine

🛈 To view a remote machine, you must first <u>add a remote connection</u> 🔊 l.

### To view a remote machine

• In the Remote Connections panel, double-click on an existing connection:



A new tab with the computer's name will appear in the main window when the remote machine is connected:

🎦 💻 🗳 🔅 🔹		Desktop	-SAPIENTester - PowerShell Module
File Home Tools He	lp		
Update To Open Containing Folde	Uninstall	fersions	م User 📕 System 📕 Disabled
Ins	talled	Fi	ter
Remote Connections 🔹	× 🛄 LAPTOP	📃 Desktop-SAPIENTester 🛛 🗙	7
	Status	Name	- Author
Desiton-SADIENTester	Update A cole	Az.Accounts	Microsoft Corporation
SAPIENTester	• Up - Available	Az.Compute	Microsoft Corporation
	Opdate Available	Az.Resources	Microsoft Corporation
	Update Available	Az.Storage	Microsoft Corporation
	<ul> <li>Update Available</li> </ul>	AzureADPreview	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzurePSDrive	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzureRM.ApiManagement	Microsoft Corporation
	Up-to-date	AzureRM.CognitiveServices	Microsoft Corporation

### How to view the program options

### To view the program options

• On the ribbon, select File > Options:



#### -OR-

• On the ribbon, select **Home** > **Options**:



The program Options will appear as a tab in the main window.

### How to close a tab in the main window

### To close a tab in the main window

• Click the X on the right of the tab:



If the local machine tab is not visible in the main window you can reopen it by clicking the button on either the Quick Access Toolbar or the File menu (**File** > **Local Machine**):



#### 3.2.2 Toolbars

Virtually all of PowerShell ModuleManager's functions are available on the Ribbon Toolbar, or "**Ribbon**." The ribbon is context-sensitive, automatically displaying the functions relevant to what you are doing at the moment. Functions that are not available are grayed out.

## **Getting Started**



The Ribbon

### The File Menu and Quick Access Toolbar



#### File Menu

The File tab on the ribbon has a menu of frequently used functions:



The File Menu

The File Menu options:

Local Machine	View modules installed on the local machine.		
Refresh Installed (F5)	Refresh information for all installed modules.		
Change Execution Policy	Opens the <b>Script Security Center</b> GUI interface, where you can change the PowerShell execution policy for both 32-bit and 64-bit shells.		
Options	Access the PowerShell ModuleManager program options.		
Exit	Close the PowerShell ModuleManager application.		

#### **Quick Access Toolbar**

The configurable mini toolbar above the Ribbon provides direct access to frequently used functions:



You can easily add your own frequently used functions to the Quick Access Toolbar.

### The Ribbon Toolbar

The <u>Ribbon</u> 106 is organized in tabs, each of which contains groups of tools:



Each tab on the ribbon contains tools grouped into sections based on related functions. For example, the **Home** ribbon > **Installed** section has controls used for managing installed modules— Updating, Moving, Disabling, and so on. Some controls also provide access to dialogs with additional options.

#### 3.2.3 Panels - Overview

The PowerShell ModuleManager workspace has dockable window panels that are used by dedicated features or to display output.

### PowerShell ModuleManager Panels

Disabled Modules	Displays disabled modules. Use this panel to enable and uninstall modules.
Information	Displays detailed information for modules highlighted in the machine tab.
Log	Displays PowerShell ModuleManager output messages.
Remote Connections	Displays remote connections. Use this panel to add, remove, and connect to remote machines.

### Undocking and docking panels

### Undocking, docking, and pinning PowerShell ModuleManager panels

- Double-click on a panel title bar or click-and-drag it out of the program window to display or "float" it in a separate window.
- To dock a floating panel, drag it into the program window and drop it onto one of the <u>blue dock-ing indicators</u>
- You can also "pin" (auto-hide) individual panels to the margin by clicking on the pin tool in the top-right of the panel's title bar (see below).

#### Pinning a panel to the margin

• Click the "pin" tool on the top-right of the panel title bar to auto-hide the panel to the margin of the window. The panel will then be hidden and will only display when you mouseover the panel title in the margin.



• To "unpin" the panel from the margin and return it to it's most recently docked position, simply mouseover the title to display the panel and then click the "pin" tool in the title bar. The panel will return to its most recent docked position.



For more information about working with panels, see Customizing Your Workspace > <u>Panels</u> and Layout 15

### 3.2.4 Skins, Options and Shortcuts

PowerShell ModuleManager provides options for customization and configuration of the program workspace. You can change the color theme, designate the default repository, control if you are prompted when uninstalling modules, and more.

Many program functions can be accessed using predefined keyboard shortcuts, and you can also add frequently used functions to the <u>Quick Access Toolbar</u> [155]. You can even reconfigure the layout of the PowerShell ModuleManager <u>panels</u> [159].

### Changing the color-themed skin

You can change PowerShell ModuleManager's user interface color theme from the **Skins** menu above the Ribbon:



Skins button

### Program configuration options

The program Options allow you to control various module settings such as cache, uninstall, and update behavior. You can also set the Repository and Installation Scope for a selected machine, reset the Quick Access Toolbar, reset or reload the Panel layout, and more.

#### To access the program Options

• On the ribbon, select File > Options:



#### -OR-

• On the ribbon, select Home > Options:



 $\bigcirc$  View Reference > <u>Program Options</u> for complete details about the available program options.

### Keyboard shortcuts and accelerators

#### **Keyboard shortcuts**

Some PowerShell ModuleManager functions are configured with <u>keyboard shortcuts</u>, which display in the menu options and ribbon button tooltips:



>-> 💻	0 🌮	₹				
File	Home	Tools	Help			
Update	🦝 Move M 🌠 Open Ri 🛅 Open Co	odule oot Module ontaining Fo	older	Uninstall	🥝 Disable 🛹 Clean Up	Enter text to sear
		Insta	alled		<u>i</u>	
Remot	e Connection	s ¤×	Stal	<b>Uninstall</b> Uninstall	(Ctrl+R) a specific versio	n of a module.

Keyboard shortcuts in ribbon button tooltips

 $\bigcirc$  View Reference > Workspace, Ribbons and Dialogs > <u>Keyboard Shortcuts</u> for the complete list of available keyboard shortcuts.

#### Accelerator keys

The ribbon interface also has accelerator keys.

**1.** Press the **ALT** key once to display small icons showing accelerator letters and codes on the ribbon controls:



**2.** Type the accelerator letters on the keyboard to perform the corresponding actions. If multiple letters are displayed, type them one after another—these are not key combinations!

Additional accelerator keys will be displayed to access any menus in the individual ribbon groups.

### 3.3 Staying Up-to-date

We are continually updating PowerShell ModuleManager, both to remove bugs and to add and improve product features. We recommend always staying current with the most recent version to ensure that you are taking advantage of the latest features, functionality, and product stability.

 $oldsymbol{i}$  The details for every PowerShell ModuleManager release are available in the <u>version history</u>.

### **Check for Updates**

By default, PowerShell ModuleManager will automatically check for software updates. You can also manually check for updates.

### To manually check for updates

• On the **Help** ribbon (Updates section) > click **Check For Updates** to open the <u>SAPIEN Updates</u> tool and see if there is a new PowerShell ModuleManager build available:



### 3.4 Getting Help

This help manual has been designed to provide all the information you will need for using PowerShell ModuleManager. In addition to the information in this guide, you can also ask questions in the <u>online</u> support forums 2.

View the latest PowerShell ModuleManager tips, product feature demonstrations, and release details on <u>our blog</u>.

Accessing the help manual

#### To view the help manual online

- In PowerShell ModuleManager, on the **Help** ribbon > in the **Product Help** section, click **Product Manual**.
- the SAPIEN Information Center provides direct access to <u>all of the SAPIEN product manuals</u>.

### User forums and support

Use the SAPIEN forums to get help with PowerShell ModuleManager, get answers to your scripting questions, submit feature requests, and more.

- <u>PowerShell ModuleManager forum</u>
- Scripting support forums
- <u>All SAPIEN support options</u>

To report a problem in the PowerShell ModuleManager forum, you will need to provide your SAPIEN product and OS <u>version information</u>.

#### How to copy version information

To report a problem in the <u>PowerShell ModuleManager forum</u>, you will need to include the product version and build, and also your OS version and build—and indicate 32 or 64-bit for each.

#### To copy the required version information

1. Click the **1** About button in the top-right of the PowerShell ModuleManager workspace:



2. In the About PowerShell ModuleManager window, select Copy Version Info:



#### -OR-

On the Send Feedback menu in the top-right of the PowerShell ModuleManager workspace, select **Copy Product Information**:



3. Paste the version information into your <u>PowerShell ModuleManager forum</u> post.

### 4 Managing Modules

This section is designed as a "How-To" guide covering the basic tasks you will use when working with PowerShell ModuleManager. The topics are presented roughly in the order that you would perform the tasks, but you can easily jump to any topic and work your way through.

Once you have learned the basics in this section, we encourage you to explore the PowerShell ModuleManager <u>Program Options</u> and also see how you can <u>Customize Your Workspace</u>

Detailed information on all of the PowerShell ModuleManager functions are located in the <u>Refer</u>ence section.

### 4.1 Searching for Modules

You can search for modules from the PowerShell Gallery or any other registered repository, and install modules directly from the **Repository Search** dialog. To search for modules already added, see <u>Finding</u>. Installed Modules 45.

### **Repository Search**

Repository Search (*Ctrl+F*) displays module information from registered repositories and allows you to add modules to your system.



*Home ribbon > Repository Search* 

### How to search for modules using Repository Search

#### To search for modules

1. On the ribbon, select Home > Repository Search (Ctrl+F):



The Repository Search dialog will open:

## Managing Modules



Repository Search Dialog

2. Enter the search criteria in the Repository Search dialog, and then press the <Enter> key:

## Managing Modules



#### **Repository Search - Field Definitions:**

Search for	Enter the search term(s).				
Search by	Select an option from the drop-down list.				
	Name Specifies the names of one or more modules to search for. This is the only parameter that supports wildcard characters.				
	<b>Tag</b> Keywords used to help find modules.				
	<b>Command</b> Cmdlets, functions, or aliases found in the module.				
	<b>Filter</b> Filters through the name, description, and tags for the search argument based on the PackageManagement module provider-specific search syn- tax. For NuGet modules, this is the equivalent of searching by using the Search bar on the PowerShell Gallery website.				
Repository	Select a repository from the drop-down list.				
	<b>i</b> The default registered repository is the PowerShell Gallery (PSGallery). This setting can be changed in <b>File</b> > <b>Options</b> > <b>General</b> > <b>PowerShell</b> .				

PowerShell ModuleManager will perform the search:



The Repository Search dialog displays the search results:

Repository Search						×	
Search Search for: azure				٩		Install	
Search by: Filter		Repository:	PSGallery		12	Versions	
Name		Author					
Azure		Microsoft Corp	oration				
Azure.Storage		Microsoft Corp	oration				
AzureRM.profile		Microsoft Corp	oration				
Azure.AnalysisServices		Microsoft Corp	oration				
AzureRM.KeyVault		Microsoft Corp	oration				
AzureRM.Automation		Microsoft Corp	oration				
AzureRM.Compute		Microsoft Corp	oration				
AzureRM.OperationalInsight	5	Microsoft Corp	oration				
AzureRM.Network		Microsoft Corp	oration				
AzureRM.AnalysisServices		Microsoft Corp	oration				
AzureRM.ApiManagement		Microsoft Corp	oration				
AzureRM.Batch		Microsoft Corporation					
AzureRM.Dns		Microsoft Corp	oration				
Latest Version 5.3.0 Last Published 5/22/2018 Downloads 8,061,531	Azure Microsoft Azure PowerShell Author(s) Microsoft Corporation Installed Version(s) 5.1.1 Release Notes * Add - ExtendedProperty par Minimum PowerShel	- Service Managem ameter to New-Azu I Version	ient ureService and Set-	AzureService			
Results: 385							

dick on a module to view the module details.

See <u>Managing Repositories</u> for information on adding, editing, and removing repositories.

#### To install a module

• To add the latest version of a module, select Install (Ctrl+I).

Repository Search							×	
Search						-		
Search for:	azure				م	*	Install	
Search by:	Filter		Repository:	PSGallery		16	Versions	
Name			Author					
Azure		Microsoft Corporation						
Azure.Storage		Microsoft Corporation						
AzureRM.profile		Microsoft Corporation						
Azure.Analysis	Services		Microsoft Corporation					

**to** view all available versions, select Versions 150 (Ctrl+V).

The Install option is disabled if the most recent module version is already installed on your machine.

See <u>Installing Modules</u> for information about available versions and installation options.

### 4.2 Installing Modules

You can install modules from registered repositories using the Repository Search dialog, or you can use install other versions of installed modules from the Machine tab. PowerShell ModuleManager also provides some installation options when installing or updating modules.

### Installing from Repository Search

Repository Search and allows you to search for modules in registered repositories and install the latest module version, or a specific module version.

#### How to install the most recent module version

#### To install the most recent module version

• In the <u>Repository Search</u> dialog, select the module and then click the **Install** button (*Ctrl+I*):
Repository Se	earch					×
Search					_	
Search for:	azure			۹.		Install
Search by:	Filter	Repository:	PSGallery		16	Versions
Name		Author				
Azure		Microsoft Cor	poration			
Azure.Storage		Microsoft Cor	poration			
AzureRM.profile	e	Microsoft Cor	poration			
Azure.Analysis	Services	Microsoft Cor	poration			

-OR-

• Right-click on the module, then select Install (Ctrl+I) from the context menu:

Repository Sea	irch					
Search Search for:	azure				م	🔮 Instali
Search by:	Filter		Repository:	PSGallery		Versions
Name		1	Author			
Azure	Install (tri+)		Microsoft Corp	poration		
Azure.Storage	Warsions Ctrl+V		Microsoft Corp	poration		
AzureRM.profile	tio versions curvy	A.	Microsoft Corp	poration		
Azure.AnalysisSe	rvices		Microsoft Corp	poration		

i The Install options are disabled if the most current version of the module is already installed.

PowerShell ModuleManager will install the latest version of the selected module:



The installation progress and status are displayed in the Log panel:



When the installation is complete, the module will appear in the Machine tab:

>-> 💻 🕐 🍀 🔹	telp	LAPTOP	- PowerShell ModuleMa
Update	uninstall Olisable	p Enter text to search	م 📕 System
Remote Connections 🔹 🗴	LAPTOP- ×		
<b>I</b>	Status	Name	Author
Deskton-SADIENTester	<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc
SAPIENTester	<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
	<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation
	Up-to-date	AzureRM.profile	Microsoft Corporation

**i** The 'Up-to-date' status indicates that the most current version of the module is installed.

## How to install a specific module version

#### To install a specific module version

• In the <u>Repository Search</u> 31 dialog, select the module and then click the **Versions** button (*Ctrl*+*V*):

Repository Se	earch					>
Search						
Search for:	azure			م	*	Install
Search by:	Filter	Repository:	PSGallery		15	Versions
Name		Author		1		
Azure		Microsoft Cor	poration			
Azure.Storage		Microsoft Cor	poration			
AzureRM.profil	e	Microsoft Cor	poration			
Azure.Analysist	Services	Microsoft Cor	poration			

-OR-

• Right-click on the module, then select **Versions** (*Ctrl*+*V*) from the context menu:

Repository Sea	arch					×
Search Search for:	azure				م	Install
Search by:	Filter		Repository:	PSGallery		Versions
Name			Author			
Azure	Install Ctrl+	1	Microsoft Cor	poration		-
Azure.Storage	Versions Ctrl+V		Microsoft Cor	poration		
AzureRM.profile			Microsoft Cor	poration		
Azure.AnalysisSe	ervices		Microsoft Cor	poration		

#### The Versions dialog will open:

Versions -	Azure		×	ĸ
Version	Downloads	Published	Release Notes:	
5.3.0	1,605,056	5/22/2018	* Add -ExtendedPrenerty parameter to New	
5.2.0	203,274	5/7/2018	Add Extended roperty parameter to New AzureService and Set-AzureService	
5.1.2	558,042	3/27/2018		
5.1.1	2,693,733	12/9/2017		
5.0.0	955,440	11/8/2017		
4.4.1	481,173	10/12/2017		
4.4.0	353,727	9/25/2017		
4.3.1	510,762	8/16/2017		
4.2.1	341,765	7/18/2017		
4.2.0	4,234	7/11/2017		
4.1.0	24,095	6/8/2017		
4.0.2	15,164	5/24/2017		
4.0.1	7,144	5/13/2017	📩 Install	
400	4 663	E/10/0017		

Versions Dialog

• Select a module version, then click the **Install** button (*Ctrl+I*):

Versions -	Azure			×
Version	Downloads	Published	Palazsa Notas:	
5.3.0	1,633,289	5/22/2018	* Demond all Demote the smallets	
5.2.0	203,275	5/7/2018	<ul> <li>Removed all RemoteApp choiets</li> </ul>	<b>^</b>
5.1.2	558,049	3/27/2018		
5.1.1	2,693,737	12/9/2017		
5.0.0	955,442	11/8/2017		
4.4.1	481,173	10/12/2017		
4.4.0	353,782	9/25/2017		
4.3.1	510,762	8/16/2017		
4.2.1	341,765	7/18/2017		
4.2.0	4,234	7/11/2017		
4.1.0	24,095	6/8/2017		
4.0.2	15,164	5/24/2017		
4.0.1	7,144	5/13/2017		🙁 Install
* 0 0	A	E/10/2017		

#### -OR-

• Right-click on a module version, then select Install (Ctrl+I) from the context menu:

# **Managing Modules**

Versions -	Azure				×
Version	Downloads	Published		Release Notes	
5.3.0	1,633,289	5/22/2018		* Demound all Demote the smallete	
5.2.0	203,275	5/7/2018		Removed all RemoteApp cholets	1
5.1.2	558,049	3/27/2018			
5.1.1	2,693,737	12/9/2017	Install	Ctrl+L	
5.0.0	955,442	11/8/2017	na motor		
4.4.1	481,173	10/12/2017			
4.4.0	353,782	9/25/2017			
4.3.1	510,762	8/16/2017			
4.2.1	341,765	7/18/2017			
4.2.0	4,234	7/11/2017			
4.1.0	24,095	6/8/2017			
4.0.2	15,164	5/24/2017			
4.0.1	7,144	5/13/2017		🗶 Ins	tall
* 0 0	A	E/10/2017			

The Install options are disabled if the selected module version is already installed.

PowerShell ModuleManager will install the selected module version:



The installation progress and status are displayed in the Log panel:



When the installation is complete, the selected module version will appear in the Machine tab:



# Installing from the Machine tab

The Machine 15 tab allows you to view and install additional versions of installed modules.

# How to install additional module versions

#### To install another module version

In the Machine tab, select the module; then on the Home ribbon, click Available Versions (Ctrl + V):



-OR-

• In the Machine tab, right-click on the module and select **Available Versions** (**Ctrl** + **V**) from the context menu:

🐱 💻 🖸 🧶 🔹			- FowerShell ModuleMan	
File Home Tools	Help			
Update Popen Containing Fol	der	Enter text to search	ر ete User System Disabled	Available Versions Registered Repositories Pacepoint
Remote Connections	LAPTOP X		niter	Information
	Status	Name	Author	
Desktop-SAPIENTester	Update Available     Up-to-date	AWSPowerShell.NetCo	re Amazon.com, Inc Microsoft Corporation	Azı
SHIERIYEAR	Repository  Up-to-date	5.3.0 - C:\Pio Fi G Azure.Storage	Update   Available Versions  rporation	Microsoft
	Update Available     Up-to-date	AzureRM.Network	Disable rporation Uninstall rporation	Author Latest Version Microsoft
	Update Available     Up-to-date	AzureRM.Sal Cisco.UCS.Core	Cisco Systems	5.3.0 Installe

The Versions dialog will open:

ersions -	Azure			,
Version	Downloads	Published		Release Notes:
5.3.0	1,605,056	5/22/2018		* Add -ExtendedPronarty parameter to New
5.2.0	203,274	5/7/2018		AzureService and Set-AzureService
5.1.2	558,042	3/27/2018		
5.1.1	2,693,733	12/9/2017		
5.0.0	955,440	11/8/2017		
4.4.1	481,173	10/12/2017		
4.4.0	353,727	9/25/2017		
4.3.1	510,762	8/16/2017		
4.2.1	341,765	7/18/2017		
4.2.0	4,234	7/11/2017		
4.1.0	24,095	6/8/2017		
4.0.2	15,164	5/24/2017		
4.0.1	7,144	5/13/2017		📩 Install
***	4 663	E/10/0017	×	

Versions Dialog

• Select a module version, then click the **Install** button (*Ctrl+I*):

# Managing Modules

Versions -	Azure			×
Version	Downloads	Published	Palazca Notaci	
5.3.0	1,633,289	5/22/2018	* Demond of Demotetors and late	
5.2.0	203,275	5/7/2018	* Removed all RemoteApp cholets	-
5.1.2	558,049	3/27/2018		
5.1.1	2,693,737	12/9/2017		
5.0.0	955,442	11/8/2017		
4.4.1	481,173	10/12/2017		
4.4.0	353,782	9/25/2017		
4.3.1	510,762	8/16/2017		
4.2.1	341,765	7/18/2017		
4.2.0	4,234	7/11/2017		
4.1.0	24,095	6/8/2017		
4.0.2	15,164	5/24/2017		
4.0.1	7,144	5/13/2017	Insta	ii ii
* 0.0	A	E/10/2017		

### -OR-

• Right-click on a module version, then select **Install** (*Ctrl+1*) from the context menu:

Versions -	Azure							×
Version	Downloads	Published			Poloace Notac			
5.3.0	1,633,289	5/22/2018						
5.2.0	203,275	5/7/2018			<ul> <li>Removed all RemoteApp choiets</li> </ul>			
5.1.2	558,049	3/27/2018						
5.1.1	2,693,737	12/9/2017	Install	Ct	(I+I			
5.0.0	955,442	11/8/2017	mstan	Cu				
4.4.1	481,173	10/12/2017						
4.4.0	353,782	9/25/2017						
4.3.1	510,762	8/16/2017						
4.2.1	341,765	7/18/2017						
4.2.0	4,234	7/11/2017						
4.1.0	24,095	6/8/2017						
4.0.2	15,164	5/24/2017						•
4.0.1	7,144	5/13/2017				٠	Install	
* 0.0	A	E/10/2017						

i The Install options are disabled if the selected module version is already installed.

# **Module Installation Options**

PowerShell ModuleManager allows you to control some installation options when installing or updating modules, including the default folder location.

# **Installation Checks**

The installation options appear in the Installation Checks section on the Home ribbon, and the buttons act like toggles—turning the features on or off:



# **Installation Options:**

Skip Publisher Check	Allows the installation of a newer module version that is digitally signed by a trusted publisher, replacing an existing, unsigned version.
Allow Clobber	Forces the installation of a module, even when another module contains an identical command.
Accept License	Accepts the license agreement during installation. i This option is not available in older versions of PowerShellGet.

The installation options are also available in the Machine tab context menu when you right-click a module:

LAPTOP-	×				•
Status		Name		Author	
<ul> <li>Update Availab</li> </ul>	le	AzureRM.Network		Microsoft Corporation	*
<ul> <li>Up-to-date</li> </ul>		AzureRM.profile		Microsoft Corporation	
<ul> <li>Update Availab</li> </ul>	le	AzureRM.Sql		Microsoft Corporation	
Up-to-date	5	Update	Ø	Allow Clobber	
Up-to-date	16	Available Versions	8	Skip Publisher Check	
Up-to-date	0	Disable	Ê	Accept License	
<ul> <li>User Module</li> </ul>		Uninstall	12	Remove Old Versions	
<ul> <li>User Module</li> </ul>	-	Uninstall	9	raulette mausmann	
Up-to-date		ModuleRequireLice	iseAc	ceptance farehar	
Up-to-date		PackageManagemer	nt	Microsoft Corporation	

# Installation Scope

The Installation Scope specifies where modules will be installed when updating or installing:

• Current User

Modules will be installed in a location that is only available to the current user:

%systemdrive%\Documents\WindowsPowerShell\Modules

• All Users

Modules will be installed in a location accessible to all users of the computer:

%systemdrive%\Program Files\WindowsPowerShell\Modules

**1** The default Installation Scope can be set in **File** > **Options** > **General**:

Installation Scope:	Current User All Users

*Options > General > Installation Scope* 

The <u>Move Module</u> control on the Home ribbon allows you to move a module's location:



Home ribbon > Move Module

# 4.3 Managing Installed Modules

Installed modules are managed from the Machine tab which is located in the middle of the Power-Shell ModuleManager workspace.

# 4.3.1 Finding Installed Modules

Installed modules are displayed in the machine tab. This topic shows you how to view and locate specific modules and their versions.

# Filter, Sort and Search

The Filter section on the Home ribbon allows you to search and filter modules installed on your machine:



Home ribbon > Filter section

How to search for installed modules

# To search for installed modules

• Enter a search term in the text box of the Filter section on the ribbon and press <**Enter**>. Modules containing the search term are highlighted in the machine tab:

I	LAPTOP Pov	werShell ModuleManager
Disable	azure	8
	Update Up-to-date User Sy	stem Disabled
	Filter	
	× 🗸	<b>•</b>
Status	Name	Author
<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corpor
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corpor
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corpor
Up-to-date	AzureRM.profile	Microsoft Corpor
<ul> <li>Update Available</li> </ul>	AzureRM.Sql	Microsoft Corpor

# dick the X on the right of the search text box to clear the search:

azure				
Update	Up-to-date	User	System	Disabled
		Filter		

# How to filter and sort installed modules

# To filter installed modules

• Use the buttons in the Filter section on the ribbon to filter the modules displayed in the machine tab—click a button to check or uncheck each status type:

Enter text to search P
Update Up-to-date User System EDisabled
Filter

**Update** A version is available that is more current than the installed version.

**Up-to-date** The installed module is the most current.

- UserShow modules local to your machine, or modules that PowerShell ModuleuleManager cannot locate on the repository designated in Options 2.
- System The module is in the local system folder.
- **Disabled** The module is disabled.

The modules in the machine tab are filtered and displayed using the same colors as the Filter buttons on the ribbon:

s Help	LAPTOP-	- PowerShell ModuleMa	inager
dule Uninstall Cla Installed	sable ean Up Update Up-to-date User	System Disable	م d
LAPTOP- ×			٠
Status	Name	Author	
Update Available	AzureRM.Nety 1k	Microsoft Corporation	*
<ul> <li>Up-to-date</li> </ul>	AzureRM.p_tile	Microsoft Corporation	
Update Available	AzureP: .Sal	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Up-to-date Cisc.UCS.Core		
Disabled	IntainerImage	jayshah	
Up-to-date	Format-Pester	Erwan Quelin	
🕨 User Module	Microsoft.PowerShell.Operation.V Microsoft		
<ul> <li>User Module</li> </ul>	ModuleProject Paulette Hausman		
<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance farehar		
<ul> <li>Up-to-date</li> </ul>	PackageManagement Microsoft Corporation		
Update Available	Pester Pester Team		
Disabled	PowerHTML	Justin Grote	

• You can also sort the displayed modules by clicking Status, Name, or Author at the top of each column:

	LAPTOP-	- PowerShell ModuleManager
s Help		
idule ng Folder	able Enter text to search an Up	م System 📕 Disabled
Installed	Filter	
LAPTOP ×		
Status	Name	Author
<ul> <li>Disabled</li> </ul>	PSReadline	Microsoft Corporation
Disabled	TestExampleModuleProj	Paulette
Update Available	AzureRM.Network	Microsoft Corporation
Update Available	AzureRM.Sql	Microsoft Corporation
<ul> <li>Update Available</li> </ul>	Pester	Pester Team
<ul> <li>Update Available</li> </ul>	PowerShellGet	Microsoft Corporation
<ul> <li>Update Available</li> </ul>	PSScriptAnalyzer	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc
<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation
Up-to-date	Cisco.UCS.Core	Cisco Systems
<ul> <li>Up-to-date</li> </ul>	Format-Pester	Erwan Quelin
Up-to-date	ModuleRequireLicenseAcceptance	farehar
Up-to-date	PackageManagement	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	PScribo	Iain Brighton
Up-to-date	WindowsPSModulePath	Steve Lee
▶ Up-to-date	Write-ObjectToSQL	John Roos
User Module	Microsoft.PowerShell.Operation.V	Microsoft
User Module	ModuleProject	Paulette Hausmann 🚽

# **View Installed Module Versions**

The machine tab provides options for viewing all installed versions of an individual module, or all installed versions of all modules. Ú

#### To view all installed versions of a module

• Click the toggle arrow to the left of the module name in the machine tab to display all installed versions of the module:

LAPTOP-	×		•
Status	Name	Author	
• Undat Available	AWSPowerShell.NetCore	Amazon.com, Inc	
<ul> <li>up-to-date</li> </ul>	Azure	Microsoft Corporation	
Repository	5.3.0 - C:\Program Files\WindowsPo		
Repository	5.2.0 - C:\Program Files\WindowsPo		
Repository	5.1.1 - C:\Program Files\WindowsPo		

You can also see all installed versions of the selected module in the Information panel



# How to view all installed versions of all modules

# To display all versions of all installed modules

• Click the Expand All / Collapse All buttons on the ribbon (Home > Window) to view/hide information for all installed modules:



V		•
Name	Author	
ModuleProject	Paulette Hausmann	
1.0.1.3 - C:\Users\Paulette\Documents\		
ModuleRequireLicenseAcceptance	farehar	
2.0 - C:\Program Files\WindowsPower		
PackageManagement	Microsoft Corporation	
1.4.3 - C:\Program Files\WindowsPowe		
1.3.1 - C:\Program Files\WindowsPowe		
Pester	Pester Team	
4.6.0 - C:\Program Files\WindowsPowe		
3.4.0 - C:\Program Files\WindowsPowe		
PowerHTML	Justin Grote	
(Disabled) 0.1.6 - C: Program Files Wi		
PowerShellGet	Microsoft Corporation	
1.6.7 - C:\Program Files\WindowsPowe		
PScribo	Iain Brighton	
0.7.24.122 - C:\Program Files\Window		
PSReadline	Microsoft Corporation	
(Disabled) 1.2 - C:  Program Files Wind		
PSScriptAnalyzer	Microsoft Corporation	
1.17.1 - C:\Program Files\WindowsPow		
	Name ModuleProject 1.0.1.3 - C:\Users\Paulette\Documents\ ModuleRequireLicenseAcceptance 2.0 - C:\Program Files\WindowsPower PackageManagement 1.4.3 - C:\Program Files\WindowsPowe 1.3.1 - C:\Program Files\WindowsPowe 3.4.0 - C:\Program Files\WindowsPowe 3.4.0 - C:\Program Files\WindowsPowe 3.4.0 - C:\Program Files\WindowsPowe PowerHTML (Disabled) 0.1.6 - C:\Program Files\WindowsPowe PowerShellGet 1.6.7 - C:\Program Files\WindowsPowe PScribo 0.7.24.122 - C:\Program Files\WindowsPowe PSReadline (Disabled) 1.2 - C:\Program Files\WindowsPowe	NameAuthorModuleProjectPaulette Hausmann1.0.1.3 - C:\Users\Paulette\Documents\fareharModuleRequireLicenseAcceptancefarehar2.0 - C:\Program Files\WindowsPowerfareharPackageManagementMicrosoft Corporation1.4.3 - C:\Program Files\WindowsPowerMicrosoft Corporation1.4.3 - C:\Program Files\WindowsPowermicrosoft Corporation1.4.3 - C:\Program Files\WindowsPowerPester Team4.6.0 - C:\Program Files\WindowsPowerJustin Grote6C:\Program Files\WindowsPowerJustin Grote7.4.0 - C:\Program Files\WindowsPowerJustin Grote7.5.7 - C:\Program Files\WindowsPowerMicrosoft Corporation1.6.7 - C:\Program Files\WindowsPowerTain Brighton0.7.24.122 - C:\Program Files\WindowsMicrosoft Corporation0.7.24.122 - C:\Program Files\WindowMicrosoft Corporation(Disabled) 1.2 - C:\Program Files\WindowsMicrosoft Corporation1.17.1 - C:\Program Files\WindowsPoweMicrosoft Corporation

Machine tab - Expand All

### 4.3.2 Viewing Module Details

PowerShell ModuleManager displays details for installed modules in the Information panel.

# **Information Panel**

The Information panel is in the middle of the PowerShell ModuleManager workspace, on the right side. Selecting a module in the machine tab will display the module details in the Information panel:

# Managing Modules

er owner	LA1	TOP - PowerSholl Mor	duleManager			<u>w</u>	- • ×
fule Ig Folder	Disable Clean Up Update Up-to-date	🛙 User 📕 System 📕 Disat	p 👬 Repository Sr R Available Ver Registered R	sarch sions epositories	<ul> <li>Skip Publisher Check</li> <li>Allow Clobber</li> <li>Accept License</li> </ul>	Options	Exapnd All
Installed		Filter	Ret	pository	Installation Checks	W	lindow
LAPTOP-		-/	anformation				X
Status	Name	Author					
Up-to-date	AWSPowerShell.NetCore	Amazon.com, Inc		A			
<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation		Azure			
• Up-to-date	Azure.Storage	Microsoft Corporation		Microsoft Azure	PowerShell - Service Ma	nagement	
Update Available	AzureRM.Network	Microsoft Corporation					
Up-to-date	AzureRM.profile	Microsoft Corporation		Author(s)			
Update Available	AzureRM.Sql	Microsoft Corporation	Latest Version	Microsoft Corpo	ration		
<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems	530	microsoft corpo	racion		
<ul> <li>Up-to-date</li> </ul>	Format-Pester	Erwan Quelin	5.5.0	Installed Ve	rsion(s)		
<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation	Microsoft	Last Published	5.3.0			
User Module	ModuleProject	Paulette Hausmann	5/22/2018				
<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance	farehar		Release Not	tes		
Up-to-date	PackageManagement	Microsoft Corporation	Downloads	* Add -Extended	Property parameter to N	lew-AzureServ	rice and
Update Available	Pester	Pester Team	8,201,585	Set-AzureServio	e		
<ul> <li>Disabled</li> </ul>	PowerHTML	Justin Grote		Malasian D	eurosChall Vasalas		
Update Available	PowerShellGet	Microsoft Corporation	Project Site	Minimum P	owershell version	1	
Up-to-date	PScribo	Iain Brighton		5.0			
<ul> <li>Disabled</li> </ul>	PSReadline	Microsoft Corporation		Dopondopo	loc		
<ul> <li>Update Available.</li> </ul>	PSScriptAnalyzer	Microsoft Corporation		Dependenc	les		
Disabled	TestExampleModuleProj	Paulette					
User Module	TestModuleProject	Paulette		Tag(a)			
<ul> <li>Up-to-date</li> </ul>	WindowsPSModulePath	Steve Lee		rag(s)			
<ul> <li>Up-to-date</li> </ul>	Write-ObjectToSQL	John Roos					
			Commands				
			<ul> <li>Get-Azure/</li> </ul>	AutomationCert	ificate		Cmdlet

Information Panel displaying highlighted module details

# Information panel contents

Description	A short description of the module.
Latest Version	The latest version of the module available in the repository.
Last Published	The last date the module was updated in the repository.
Installed Version(s)	The version(s) of the module installed on your machine.
Minimum PowerShell Version	The minimum PowerShell version required to run the module.
Dependencies	If dependent module(s) are listed, the dependent module ver- sion(s) will also be installed.
Tags	Keywords used to search for modules in PowerShell repositories.
	Click on a Tag to open a search for modules with the same tag.
Commands	Cmdlets, functions, or aliases contained in the module.

# 4.3.3 Updating Modules

PowerShell ModuleManager provides a number of options for updating installed modules:

# **Managing Modules**



*Home ribbon > Update menu* 

# About the PowerShell ModuleManager 'update' function

When performing a module *update*, PowerShell ModuleManager will check the set repository to see if a version is available that is newer than the installed version:

- If a newer version is available, it will be installed.
- If a newer version is not available, the details in the <u>Information panel</u> will be updated with any new information.

# **Set Repository**

The default registered repository is the PowerShell Gallery (PSGallery). This can be changed in **File** > **Options** > **General** > **PowerShell**:

# **Managing Modules**

LAPTOP	
PSGallery	
(Changing the set repository of a Machine will make the installed module information refresh)	
Current User	
All Users	
	LAPTOP PSGallery (Changing the set repository of a Machine will make the installed module information refresh) Current User All Users

Options > General > Powershell

# **Automatic Updates Check**

During program startup, by default PowerShell ModuleManager automatically checks for updates by comparing the installed modules to the modules in the set repository. This can be changed in File > Options > General > Settings:

Settings	
Cache module information on close	Show warning before uninstall
V Automatically check for module updates	←
Save All Settings	Load Settings

To learn about other options available when updating modules, view <u>Module Installation Op-</u> tions 43.

# How to update a module

#### To update a module

• Select a module in the Machine tab, and then on the Home ribbon click **Update** (*Ctrl+U*):



#### -OR-

• Right-click a module in the Machine tab, and select **Update** from the context menu:

Status	Name		- Author	
Up-to-date	AWSPowerShell.Ne	tCor	e Amazon.com	, Inc
Up-to-date	Azure		Microsoft Cor	poration
<ul> <li>Update Available</li> </ul>	AzurePM Network		Microsoft Cor	poration
🕨 Up-to-date 🛛 🗟	Update 🔸	ø	Allow Clobber	ration
<ul> <li>Update Availa</li> </ul>	Available Versions	8	Skip Publisher Check	ration
<ul> <li>Up-to-date</li> </ul>	Disable	1	Accept License	
Up-to-date	Uninstall	5	Remove Old Versions	
<ul> <li>User Module</li> </ul>	Pilo osorci orectore	-11.0	регатиоп мистозоп	
<ul> <li>User Module</li> </ul>	ModuleProject		Paulette Haus	smann
Up-to-date	ModuleRequireLice	nseA	cceptance farehar	

• You can also select an <u>Installation Option</u> when updating a module from the Machine tab context menu.

# How to update ALL modules

# To update ALL modules

• In the Update drop-down list on the Home ribbon, select **Update All** (*Ctrl+Shift+U*):



The most recent version of all modules will be installed.

🛈 The update time will vary depending on how many modules you have installed.

# How to update a module and remove old versions

#### To update a module and remove old versions

• Select a module in the Machine tab, then in the Update drop-down list on the Home ribbon, select **Update**, **Remove Old**:



-OR-

• Right-click a module in the Machine tab, then select **Update** > **Remove Old Versions** from the context menu:

Status	Name		+ Author	
Up-to-date	AWSPowerShell.NetCo	re	Amazon.com, Ind	:
Up-to-date	Azure		Microsoft Corpora	tion
Update Available	AzureRM.Network	_	Microsoft Corpora	tion
Up-to-date	Ġ Update 🔸	Ø	Allow Clobber	in
<ul> <li>Update Available</li> </ul>	Available Versions		Skip Publisher Check	n
Up-to-date	Ø Disable		Accept License	
Up-to-date		152	Remove Old Versions	
User Module	Piterosortar offeronent			
<ul> <li>User Module</li> </ul>	ModuleProject		Paulette Hausmar	nn
Up-to-date	ModuleRequireLicense	Accer	ptance farehar	

The latest version of the selected module will be installed, and all previous versions will be uninstalled.

### 4.3.4 Moving Modules

The default location when installing or updating modules is defined in the installation scope. You can also easily move a module after it has been installed. See Installation Scope 4 for more details.

# **Move Module**

The Move Module control on the Home ribbon allows you to move a module to a different location:



#### How to move a module

# To move a module

1. Select a module in the Machine tab, then on the Home ribbon click Move Module:



- 2. In the Move dialog:
  - a. Select a module version.
  - b. Select a destination folder.
  - c. Click OK.

Move - Azure	Storage	×
Version:	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0	
Destination:	Col Harrah Davidatha) Dagaman tha Milanda wa Davida Chailli Mandulan	
	C:\Users\Paulette\Documents\windowsPowerShell\Modules C:\Program Files\WindowsPowerShell\Modules	
	C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules	

Move Dialog

The move activity will appear in the Log panel:



The location change will be updated in the Machine tab:

LAPTOP-	×	
Status	Name	Author
Up-to-date	AWSPowerShell.NetCore	Amazon.co
Up-to-date	Azure	Microsoft C
🔺 Update Available	Azure.Storage	Microsoft C
Repository	4.5.0 - C:\Users\Paulette\Documents\WindowsPowerShell\	
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azu	
Update Available	AzureRM.Network	Microsoft C
Up-to-date	AzureRM.profile	Microsoft C
Update Available	AzureRM.Sql	Microsoft C

### 4.3.5 Publishing Modules

PowerShell ModuleManager allows you to share your PowerShell modules by publishing to online repositories like the PowerShell Gallery.

Take a moment to familiarize yourself with the version selection behavior of the Publish-Module command, and also the publishing prerequisites, and then learn how to publish modules.

# Understanding the Publish-Module command's version selection behavior

The **Publish-Module** command—from the PowerShellGet module—allows you to share modules from your local computer to online or local galleries.

To run the Publish-Module command, you can either specify the module name or the path of the folder containing the module. When publishing by name, the first module found in the paths of the PSModulePath environment variable (\$env:PSModulePath) will be published—so if you have multiple versions, it is important to specify a minimum version.

# Publishing prerequisites

- PowerShell ModuleManager version You will need PowerShell ModuleManager version 2019 1.1.1 or later to use the publish functionality.
- Registered repository

The repository you want to publish to must be a <u>registered repository</u> 184 in PowerShell.

• Online repositories

An API key is required to publish to NuGet-based online repositories, such as the PSGallery. To get an API key, you will need to create an account on the PowerShell Gallery and generate a new key for the module package.

Local repositories do not require a key.

Windows 10 - PowerShellGet version

Windows 10 includes an older version of PowerShellGet, which provides the <u>Publish-Module com-</u> <u>mand</u> m. If you are running Windows 10 with the default PowerShellGet module, you will need to update the module to recognize the API key from the latest gallery site.

#### Metadata

Publishing a module requires metadata, most of which is taken from the module manifest (.psd1).

# Metadata requirements:

Name:	A unique module name that does not already exist in the repository you in- tend to publish to.
Version:	The current version of the module, which must be higher than any existing module versions present on the repository.
Description:	A short description of the module.
Author:	The creator of the module.

# How to publish a module

#### To publish a module

1. Select a module in the Machine tab, then on the Home ribbon click Publish Module:

	LAFTOP-	- PowerShell ModuleN	lanager	
p				
Uninstall	Enter text to search Update Up-to-date User Filter	م System Disabled	Repository Search Available Versions Registered Repositories Repositor	Publish Module
LAPTOP-		-	R Information	
Status	Name	Author		
<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc		NИ.
Up-to-date	Azure	Microsoft Corporation		IVI
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation		Test mo
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporat		
Up-to-date	AzureRM.profile	Microsoft Cor ration		Autho
<ul> <li>Update Available</li> </ul>	AzureRM.Sql	Microsof orporation	Latest Version	Daulette
Up-to-date	Cisco.UCS.Core	Cise oystems		raulette
Up-to-date	ContainerImage	Jyshah		Install
Up-to-date	Format-Pester	Erwan Quelin	Last Published	1.0.1.3
<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation	Microsoft		<b>a</b> 1
<ul> <li>User Module</li> </ul>	ModuleProject	Paulette Hausmann	Developede	Releas
Local	1.0.1.3 - C:\Users\Paulette\Documents\		Downloads	Sample
Up-to-date	ModuleRequireLicenseAcceptance	farehar		
Up-to-date	PackageManagement	Microsoft Corporation		Minim

2. Enter the required data in the Publish dialog, and then click Publish:

Publis	h - I	Modu	lePro	iect

<b>Publish Settings</b>	
Dublish to:	DCModulo Dono
Publish to:	PSModuleRepo
NuGetAPI Key:	
	(A NuGet key is only required if publishing to an online repository like the PowerShell Gallery)
Version:	1.0.1.3 - C:\Users\Paulette\Documents\WindowsPowerShell\Modul *
Optional Informa	ation
Tags:	
	(Separate multiple tags with commas. Example tags include DesiredStateConfiguration, DSC, DSCResourceKit, or PSModule)
License Uri:	
Icon Uri:	
Project Uri:	
Release Notes:	
	▼ Update the module manifest (.psd1) file

Publish Dialog

×

# Publish < module > - Field Definitions:

Publish to*:	Select the registered repository from the drop-down list.
NuGetAPI Key:	If you are publishing to an online repository like the PowerShell Gallery, enter the NuGetAPI key.
Version*:	Select the module version.
Tags:	Keywords used to search for modules in PowerShell repositories. Separate multiple tags with commas.
License Uri:	The URL of licensing terms for the module.
lcon Uri:	The URL of an icon for the module.
Project Uri:	The URL of a website for the project.
Release Notes:	Comments about this version of the module.
Update the module manifest (.psd1) file:	<ul> <li>If the data in the Optional Information section already exists in the module manifest, you do not need to enter it in the Publish dialog.</li> <li>If you specify data in any of the Optional Information fields that is not already in the module manifest, you must select the <i>Update the module manifest (.psd1) file</i> checkbox to update the local module's manifest.</li> </ul>

\* Required fields

The publishing activity will appear in the Log panel:



 $\bigcirc$  A .nupkg file is created when a module is published to a registered repository, allowing you to find the published module when performing a <u>search</u>  $\exists$ 



### 4.3.6 Disabling and Uninstalling Modules

PowerShell ModuleManager provides a number of options for disabling and uninstalling modules.



Home ribbon > Uninstall and Disable options

In Windows PowerShell 5.0, you can have multiple versions of the same module on the same machine, and you can even have multiple versions of the same module imported into the same session. Understanding the difference between disabling and uninstalling and uninstalling and specifically how to disable individual module versions—will allow you to control which module PowerShell will load into your scripts.

In addition to becoming familiar with PowerShell ModuleManager's <u>disable</u> and <u>uninstall</u> features, we recommend that you take a moment to review <u>PowerShell's module import behavior</u>.

# Understanding PowerShell's module import behavior

Beginning in Windows PowerShell 3.0, modules are imported automatically when any cmdlet or function in the module is used in a command. When importing a module into a session, PowerShell does not always import the latest version of a module; instead, it searches for the specified module in the paths defined in the value of the environmental variable, PSModulePath. For example, when the first path in PSModulePath is \$home\Documents\WindowsPowerShell\Modules, and any version

of the module is installed in that directory, PowerShell then searches for module files in the following order:

- Module Manifest files (.**psd1**)
- Script Module files (.psm1)
- Binary Module files (.dll)

The **Import-Module** cmdlet has parameters to help explicitly import modules—such as RequiredVersion, MinimumVersion, and MaximumVersion—but it will import the first module found that meets the specified criteria.

# **Disabling Modules**

Disabling specific versions of a module allows you to control which module PowerShell will load into your script. Disabling is also helpful when you are unsure if other modules are dependent on a particular module because disabling avoids having to reinstall the module. If it is later determined that the module is needed, simply enable it.

# Understanding how the Disable feature works

The PowerShell ModuleManager **Disable** feature moves a module from the path saved in the value of the PSModulePath environment variable (\$env:PSModulePath). Disabling a module is not the same as *uninstalling*. Disabling a module moves it to a user's AppData folder, and enabling moves it back to the previous location. If modules are no longer needed, they should be uninstalled.

# Viewing disabled modules in the Machine tab

Disabled modules are displayed in the Machine tab or the Disabled Modules panel 12.

In the Machine tab, disabled modules appear with distinct characteristics:

LAPTOP-	All second description		•
Status	All versions disabled	Author	
Up-to-date	AWSExt	Trevor Sulivan <trevor@artof< th=""><th></th></trevor@artof<>	
Disabled	AWSPowerShell.NetCore	Amazon.com, Inc	
Repository	(Disabled) 3.3.542.0 - C:\Program Files\WindowsPowerShell\		
Repository	(Disabled) 3.3.509.0 - C:\Program Files\WindowsPowerShell		
Up-to-date	Azure	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.AnalysisServices	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.		
Repository	(Disabled) 4.6.0 - C:\Program Files\WindowsPowerShell\Mod	ul	
Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.		
Update Ava	a version disabled	Microsoft Corporation	
Up-to-date	e version disabled	Microsoft Corporation	
<ul> <li>Update Available</li> </ul>	AzureRM.Sql	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems	

**i** When all versions of a module are disabled, the parent node will display as **Disabled**.

# To see only disabled modules in the machine tab

• Select only the **Disabled** filter on the Home ribbon:

		LAPTOP PowerShel
Uninstall	n Up	ر User Systen Disabled
LAPTOP-	×	× •
Status	Name	Author
<ul> <li>Disabled</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc
Disabled	Cisco.UCS.Core	Cisco Systems
Disabled	PowerHTML	Justin Grote
Disabled	PSReadline	Microsoft Corporation
Disabled	<b>TestExampleModuleProj</b>	Paulette

**b** Disabled modules can also be viewed and managed from the Disabled Modules panel 129. For more information on locating and viewing installed modules, see Filter, Sort and Search 45.

# How to disable and enable modules

### **Disabling Modules**

You can disable modules from the Home ribbon, or the context menu.

# To disable a module

• Select a module, and then click **Disable** on the Home ribbon:



#### -OR-

• Right-click on a module, and then select **Disable** from the context menu:

🔉 🚊 🚺 🏶 🔹		LAPTOP PowerShel	l ModuleManager
File Home Tools I	Help		
Update	Uninstall	ble Enter text to search P Update Up-to-date User System Disabled	Repository Search Available Versions Registered Repositories
Instal	ed	Filter	Repository
Remote Connections 🔹 🗴	LAPTOP-	× .	*
	Status	Name	Author
Deskton-SAPIENTester	Update Available	AWSPowerShell.NetCore	Amazon.com, Inc
SAPIENTester	Up-to-date	Azure	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
	Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.1	
	Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0	
	Repository	S Update    vsPowerShell\Modules\Azure.Storage\4.5.0	
	Update Available	Available Versions	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	O Disable	Microsoft Corporation
	<ul> <li>Update Available</li> </ul>	1 Uninstall	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	- Offisial	Cisco Systems
	<ul> <li>Up-to-date</li> </ul>	Format-Pester	Erwan Quelin
	<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation.Validation	Microsoft
	<ul> <li>User Module</li> </ul>	ModuleProject	Paulette Hausmann
	<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance	farehar

Selecting the parent node disables all versions; selecting a child node disables only that version. You can also *Ctrl-click* to select more than one module.

The disabled status is displayed in the Log panel:



The Machine tab will refresh to display the disabled module:

E	LAPTOP-	×		
Sta	itus	Name	Author	
	Update Available	AWSPowerShell.NetCore	Amazon.com, Inc	
•	Up-to-date	Azure	Microsoft Corporation	
	Up-to-date	Azure.Storage	Microsoft Corporation	
	Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.1		
	Repository	(Disabled) 4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.S		
	Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0		
	Update Available	AzureRM.Network	Microsoft Corporation	
۲	Up-to-date	AzureRM.profile	Microsoft Corporation	

# **Enabling Modules**

The **Disable** feature on both the Home ribbon and the Machine tab context menu behaves like a toggle. When a module is disabled, the **Disable** option is highlighted. Clicking the highlighted **Disable** option enables the module by moving it back to its original location, and the button is no longer highlighted:

#### Disable / Enable on the ribbon



#### Disable / Enable in the context menu

G	Update	G	Update	
60	Available Versions	00	Available Versions	
0	Disable	0	Disable	
1	Uninstall	1	Uninstall	

Module can be Disabled

Module o	an be	Enabled
----------	-------	---------

# To enable a module

You can enable modules from the Home ribbon, or the context menu.

• Select a disabled module, and then click **Disable** (highlighted) on the Home ribbon:

<u>₩ Ξ 0 %</u> •		LAFTO	P - PowerShell ModuleManage	a l
File Home Tools I Move Module Update - Open Containing Fold Install	elp Uninstall	Enter text to search	ہر User System Disabled	Repository Search Available Versions Registered Repositories Repository
Remote Connections 🛛 🔹 🛪	LAPTOP- ×			
	Status	Name	Author	
Desktop-SAPIENTester SAPIENTester	<ul> <li>Disabled</li> </ul>	AWSPowerShell-NetCore	Amazo	on.com, Inc 📃 🍝
	Up-to-date	Azure	Micros	oft Corporation
	Up-to-date	Azure.AnalysisServices	Micros	oft Corporation
	Up-to-date	Azure.Storage	Micros	oft Corporation
	Update Available	AzureRM.Network	Micros	oft Corporation
	Up-to-date	AzureRM.profile	Micros	oft Corporation

-OR-

• Right-click on a disabled module, and then select **Disable** (highlighted) from the context menu:

🐱 📃 🕛 🧶 🔹			PowerShell ModuleManager
File Home Tools H	lelp		
Update	er ÷	Enter text to search	م System Disabled Disabled Repository Search Registered Repositories Repository
🔚 Remote Connections 🛛 🔹 🗙	LAPTOP- ×		•
<b>4 4</b>	Status	Name	Author
Desktop-SAPIENTester	<ul> <li>Disabled</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc
SAPIENTester	🕨 Up-to-date 🛛 🖓	Update •	Microsoft Corporation
	<ul> <li>Up-to-date</li> <li>III</li> </ul>	Available Versions 25	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Disable	Microsoft Corporation
	🕨 Update Available		Microsoft Corporation
	🕨 Up-to-date	Uninstall	Microsoft Corporation
	Update Available	AzureRM.Sql	Microsoft Corporation
	Up-to-date	Cisco.UCS.Core	Cisco Systems

Selecting the parent node enables all versions; selecting a child node enables only that version. You can also *Ctrl-click* to select more than one module.

The enabled status is displayed in the Log panel:


LAPTOP-	×	
Status	Name	Author
Update Available	AWSPowerShell.NetCore	Amazon.com, Inc 🖌
Repository	3.3.542.0 - C:\Program Files\WindowsPowerS	hell\Modules\
Repository	3.3.509.0 - C:\Program Files\WindowsPowerS	hell\Modules\
Up-to-date	Azure	Microsoft Corporation
Up-to-date	Azure.AnalysisServices	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation
Up-to-date	AzureRM.profile	Microsoft Corporation

The Machine tab will refresh to display the enabled module(s):

Modules can also be enabled or uninstalled from the Disabled Modules panel 12.

## How to enable modules from the Disabled Modules panel

Modules can be enabled or <u>uninstalled</u>  $\mathbb{R}^{1}$  from the Disabled Modules panel.

## To enable a module

• Select a module, and then click the **Enable** button:



#### -OR-

• Right-click on a module, and then select Enable from the context menu:

🙆 Disable	d Modules			<b>a</b>	×
🕼 Enal	ole 🔮 Uninstall				
4 💻 LA	PTOP-				
- 7	Azure Enable				
	4.6.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0			
	4.5.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0			
a 🌠	ModuleProject				
	1.0.1.3	$C: \label{eq:c:Users} C: eq:c:Users$			
× 🚰	AWSPowerShell.NetCore				
	3.3.542.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.542	.0	
	3.3.509.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.509	.0	

**w** Selecting the parent node enables all versions; selecting a child node enables only that version.

The enabled status is displayed in the Log panel:



The Machine tab will refresh to display the enabled module(s):

LAPTOP-	×	•
Status	Name	Author
Disabled	AWSPowerShell.NetCore	Amazon.com, Inc 🔺
Up-to-date	Azure	Microsoft Corporation
Up-to-date	Azure.AnalysisServices	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azur	e.Stora
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azur	e.Stora
Repository	(Disabled) 4.5.0 - C:\Program Files\WindowsPowerShell\Mo	odules\A
Update Available	AzureRM.Network	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation

## **Uninstalling Modules**

Uninstall removes modules from your machine. You can remove one or more versions of a module, remove all older versions, or remove all versions.

• Modules are uninstalled by the **Uninstall-Module** cmdlet, but if they fail to uninstall—or if they were not installed with the **Install-Module**—they are moved to the Recycle Bin.

A good module management practice is to uninstall modules when they are no longer needed. If you are not sure if you want to uninstall a particular module version, then <u>disable</u> it.

## How to uninstall a module version

## To uninstall a module version

**1.** Select a module version in the Machine tab, and then click **Uninstall** (*Ctrl+R*) on the Home ribbon:



for the select multiple versions.

#### -OR-

• Right-click on the selected module(s) in the Machine tab, and then select **Uninstall** from the context menu:

LAPTOP-			•
Status	Name -	Author	
<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc	
Up-to-date	Azure	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0		
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0		
Repository	S Update hdowsPowerShell\Modules\Azure.Storage\4.6.1	مرابع المراجع المراجع المراجع المراجع	
<ul> <li>Update Available</li> </ul>	Co Available Versions	Microsoft Corporation	
Up-to-date	Ø Disable	Microsoft Corporation	
<ul> <li>Update Available</li> </ul>		Microsoft Corporation	
Up-to-date		Cisco Systems	
Up-to-date	Format-Pester	Erwan Quelin	

**2.** Click **OK** to confirm:

PowerShell N	ModuleManager	×
Are	e you sure you would like to uninstall version 4.6.0 of	Azure.Storage?

i If you selected more than one version in the Machine tab, you will be prompted to confirm each uninstall.

The uninstall progress and status is displayed in the Log panel:



The Machine tab will refresh when the module is uninstalled:

LAPTOP-	x		•
Status	Name	Author	
Update Available	AWSPowerShell.NetCore	Amazon.com, Inc	
<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0		
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.1		
Update Available	AzureRM.Network	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation	
Update Available	AzureRM.Sql	Microsoft Corporation	

## How to uninstall all older versions of a module

When PowerShell ModuleManager updates a module, the latest version is installed—but the previous versions remain. Use Uninstall Older Versions to keep the latest version, and remove all of the older versions.

## To uninstall all older module versions

**1.** Select a module in the Machine tab, and then click **Uninstall Older Versions** from the Uninstall menu on the Home ribbon:

🐱 💻 🖸 🏶 🔹			- PowerShell ModuleManager
File Home Tools	Help		
Update Popen Containing Fol	der	able ean Up Update Up-to-date User System	A         A Repository Search           Image: Construction of the second sec
Insta	lled 🧟 Uninstall	Ctrl+R Filter	Repository
Remote Connections 🔹 🗙	🖃 🥼 Uninstall (	Older Versions	
	State		Author
Desktop-SAPIENTester	Update Avai     Up-to-date	AWSPowerShell.NetCore Azure	Amazon.com, Inc Amazon.com, Inc
	🔺 Up-to-date 🛛 💆	Azure.Storage	Microsoft Corporation
	Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azu	ire.Storage\4.5.0
	Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azu	ire.Storage\4.6.0
	Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azu	ire.Storage\4.6.1
	Update Available	AzureRM.Network	Microsoft Corporation

**2.** Click **OK** to confirm:



The uninstall activity will appear in the Log panel:



The Machine tab will refresh when all older versions of the module are removed:

LAPTOP-	×		
Status	Name	Author	
<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc	
Up-to-date	Azure	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.1		
Update Available	AzureRM.Network	Microsoft Corporation	
Up-to-date	AzureRM.profile	Microsoft Corporation	

When updating a module, you can remove all previous versions by selecting **Update**, **Remove Old Versions**.

## How to uninstall all versions of a module

You can uninstall all versions of a module by selecting the module parent node in the Machine tab.

## To uninstall all versions of a module

**1.** Select a module name in the Machine tab, and then click **Uninstall** (*Ctrl*+*R*) on the Home ribbon:

🐱 💻 🗂 😻 📼		LAPTOP - PowerSt	ell ModuleManager
File Home Tools	Help	able Enter text to search	Repository Search
Update Topen Containing Fo		an Up	Available Versions
Remote Connections • ×		×	(repository)
	Status	Name	Author
Desktop-SAPIENTester	Update Avalule     Up-to-date	AWSPowerShell.NetCore Azure	Amazon.com, Inc * Microsoft Corporation
	Repository	Azure.Storage 4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.	Microsoft Corporation
	Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.	0
	Repository     Update Available	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6. AzureRM.Network	1 Microsoft Corporation

-OR-

• Right-click a module in the Machine tab, and then select **Uninstall** from the context menu:

<u>&gt;</u> \Xi 🖸 🔅 -			- PowerShell ModuleManager
File Home Tools	Help Uninstall elled	Enter text to search	Available Versions     Repository     Registered Repository
Remote Connections 🔹 🗙	LAPTOP-		
	Status Nan	ne	Author
Desktop-SAPIENTester	Update Available     Up-to-date     Aze	/SPowerShell.NetCore ure	Amazon.com, Inc  Microsoft Corporation
SAFIENTESKE	Up-to-date     Repository     Repository     Repository     Repository     Repository     Repository     O	ure.Storage pdate /IndowsPowerShell\Modules\Azu vailable Versions /IndowsPowerShell\Modules\Azu isable /IndowsPowerShell\Modules\Azu	Microsoft Corporation re.Storage\4.5.0 re.Storage\4.6.0 re.Storage\4.6.1
	Update Avaiable     Up-to-date     Update Avaiable Aza	ninstall	Microsoft Corporation Microsoft Corporation Microsoft Corporation

**2.** Click OK to confirm:



The uninstall activity will appear in the Log panel:



The Machine tab will refresh when all versions of the module are removed:

🎦 🚍 🖸 🏶 🔹		LAPTOP: PowerShell		
File Home Tools H	lelp			
Update	er Uninstall	Enter text to search	P Repository Search	tories
Installe	ed.	Filter	Reposito	лy
Remote Connections 🔹 🛪	LAPTOP ×			•
	Status	Name	Author	_
Deskton-SAPIENTester	<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com Inc	
SAPIENTester	<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation	
	<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation	
	Update Available	AzureRM.Sql	Microsoft Corporation	

How to uninstall all older versions of 'all' modules (Clean Up)

The Clean Up tool removes older versions of all modules, only keeping the latest versions installed.

## To uninstall all older versions of all modules

1. Click Clean Up on the Home ribbon:

🎦 🚊 🖸 🏶 🔹		LAPTOP- PowerShell	ModuleManager
File Home Tools	Help		
Update P Open Containing	le Folder	Disable Enter tast to search P Clean Up Update Up-to-date User System Disabled	Repository Search Available Versions Registered Repositories
In	stalled	Filter	Repository
Remote Connections # ×	LAPTOP	×	· · · · ·
	Status	Name	Author
Desktop-SAPIENTester	<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc
SAPIENTester	Repository	3.3.542.0 - C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.Net	
	Repository	3.3.509.0 - C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.Net.	
	<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
	Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.1	
	Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0	
	Repository	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0	
	Update Available	AzureRM.Network	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation
	Update Available	AzureRM.Sql	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems
	Repository	2.5.1.6 - C:\Program Files\WindowsPowerShell\Modules\Cisco.UCS.Core\2.5.1.6	
	Repository	2.4.1.3 - C:\Program Files\WindowsPowerShell\Modules\Cisco.UCS.Core\2.4.1.3	
	Repository	2.3.1.5 - C:\Program Files\WindowsPowerShell\Modules\Cisco.UCS.Core\2.3.1.5	

### 2. Click OK to confirm:

PowerSh	ell ModuleManager	×
	Are you sure you would like to clean up older w	ersions of modules?

PowerShell ModuleManager will uninstall all older versions of all modules:



The uninstall activity will appear in the Log panel:

🔲 Log		Ą.	×
>> Removing old version(s) of AWSPowerShell.NetCore			
>> Older version(s) of AWSPowerShell.NetCore were successfully uninstal	led		
>> Removing old version(s) of Azure			
>> Older version(s) of Azure were successfully uninstalled.			
>> Removing old version(s) of Azure.Storage			
>> Older version(s) of Azure.Storage were successfully uninstalled.			
>> Removing old version(s) of AzureRM.Network			-

The Machine tab will refresh when the older versions of all modules have been removed:

😕 💻 🝊 🏶 🕤			- PowerShell ModuleManager
File Home Tools	Help		
Update Update Update	e Antonia antonia Antonia antonia a	Isable Clean Up Update Up-to-date User Filter	P     It Repository Search       It Available Versions       System     Disabled       P     Registered Repositories       Repository
Remote Connections # ×	LAPTOP-	×	*
🖶 🔜	Status	Name	Author
Desktop-SAPIENTester	<ul> <li>Update Available Repository</li> </ul>	AWSPowerShell.NetCore 3.3.542.0 - C:\Program Files\WindowsPowerShell\Mo	Amazon.com, Inc
SAPIENTERE	Up-to-date	Azure	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
	Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Module	es\Azure.Storage\4.6.1
	Update Available	AzureRM.Network	Microsoft Corporation
	Up-to-date	AzureRM.profile	Microsoft Corporation
	Update Available	AzureRM.Sql	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems
	Repository	2.5.1.6 - C:\Program Files\WindowsPowerShell\Modu	iles\Cisco.UCS.Core\2.5.1.6

## How to uninstall modules from the Disabled Modules panel

Modules can be uninstalled or <u>enabled</u> 72 from the Disabled Modules panel.

## To uninstall a module

• Select a module, and then click the Uninstall button:

Disabled Modules	□ + ×
🕼 Enable 🔝 Uninstall	
A 🛄 LAPTOP-	
🔺 🌠 ModuleProject 💦	
1.0.1.3	C:\Users\Paulette\Documents\WindowsPowerShell\Modules\ModuleProject
AWSPowerShell.Net	
3.3.542.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3.542.0
3.3.509.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3.509.0
🔺 🌠 Azure.Storage	
4.5.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0

#### -OR-

• Right-click on a module, and then select **Uninstall** from the context menu:

Disabled Modules				4	×
🕼 Enable	Jninstall				
4 🔜 LAPTOP-					
🔺 🌠 ModulePri	oject				
1.0.1.3		C:\Users\Paulette\Documents\WindowsPowerShell\Modules\ModuleProject			
AWSPowe	erShell.NetCore				
3.3.542.0		C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3.	542.0	1	
3.3.509.0		C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3.	509.0		
4.5.0	Enable Uninstall	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0			

Selecting the parent node uninstalls all versions; selecting a child node uninstalls only that version.

The uninstall status is displayed in the Log panel:



The Machine tab will refresh, and the uninstalled module(s) will not be listed:

LAPTOP- ×			•
Status	Name	Author	
Disabled	AWSPowerShell.NetCore	Amazon.com, Inc	
<ul> <li>Up-to-date</li> </ul>	Azure	Microsoft Corporation	
Up-to-date	Azure.AnalysisServices	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Mo	dules\Azur	
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Mo	dules\Azur	
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation	
Up-to-date	AzureRM.profile	Microsoft Corporation	

## Possible errors during uninstall

Some known errors may occur when uninstalling specific modules. If you encounter errors that are not listed here, please submit them in the <u>PowerShell ModuleManager support forum</u>.

#### PackageManagement

PackageManagement and PowerShellGet are both required by PowerShell ModuleManager. Both modules are, by default, installed with Windows. If you uninstall and then update these modules, sometimes the runspace environment gets "confused," and errors can occur. We are working on implementing a way for PowerShell ModuleManager to handle this.

#### Pester 3.4

Pester 3.4 is installed with Windows and is by default "locked" by TrustedInstaller:



In this scenario, an Administrator account is required to uninstall Pester.

#### PowerShellGet

PackageManagement and PowerShellGet are both required by PowerShell ModuleManager. Both modules are, by default, installed with Windows. If you uninstall and then update these modules, sometimes the runspace environment gets "confused," and errors can occur. We are working on implementing a way for PowerShell ModuleManager to handle this.

## 4.4 Managing Repositories

You can add, edit, or delete repositories from the **Registered Repositories** dialog.

if you want to share modules you have written, the repository you wish to <u>publish</u> by to must be a registered repository in PowerShell.

## **Registered Repositories**

You can access the Registered Repositories dialog from the **Home** ribbon > **Registered Repositor**ies:



Home ribbon > Registered Repositories

• You can use the Registered Repositories dialog for repositories that are on network drives, but not for repositories that are on mapped drives.

### How to register a repository

#### To add a repository

1. On the Home ribbon > click Registered Repositories:



**2.** In the Registered Repositories dialog, enter the required data in the Add section and then click **Register Repository**:

Registered Reposi	tories		×
Name	Publish Location	Source Location	Trusted
PSGallery	https://www.powershellgallery.com	https://www.powershellgallery.com/ap.	Untrusted
Edit			
Source Location:		/v2/	
Publish Location:		/v2/package/	
Installation Policy:	Trusted		
		Updat	e Repository
Add			
Name*:	PSModuleRepo		
Source Location*:	C:\SAPIEN\LocalRepo		
Publish Location:	C:\SAPIEN\LocalRepo\Package		
Installation Policy:	✓ Trusted		
		Regist	er Repository
Remove			
			Close

Registered Repositories Dialog > Add

#### Add Repository - Field Definitions:

Name*:	The repository name.
Source Location*:	The URL or file path of the repository to search and install modules from.
Publish Location:	The URL or file path of the repository where modules should be published.
Installation Policy:	<ul> <li>Specifies the PowerShell behavior when installing from the repository:</li> <li>Untrusted: Prompts for confirmation before installing.</li> <li>Trusted: Does not prompt for confirmation before installing.</li> </ul>

\* Required fields

PowerShell ModuleManager will register the repository:

Name	Publish Location	Source Location	Trusted
PSGallery	https://www.powershellgallery.com	https://www.powershellgallery.com/ap	Untrusted
PSModuleRepo	C:\SAPIEN\LocalRepo\Package	C:\SAPIEN\LocalRepo	Trusted

The default registered repository is the PowerShell Gallery (PSGallery). This can be changed in **File** > **Options** > **General** > **PowerShell**:



Options > General > Powershell

## How to edit a repository

#### To edit a repository

1. On the Home ribbon > click Registered Repositories:



2. Select a repository and make any changes in the Edit section, then click Update Repository:

Registered Reposito	ories		×
Name	Publish Location	Source Location	Trusted
PSGallery	https://www.powershellgallery.com	https://www.powershellgallery.com/ap	Untrusted
PSModuleRepo	C:\SAPIEN\LocalRepo\Package	C:\SAPIEN\LocalRepo	Trusted
Edit			
Source Location:		/v2/	
Publish Location:	https://www.powershellgallery.com/ap	/v2/package/	Ĩ
Installation Policy:	∕ Trusted	Upda	e Repository
Add			
Name*:			
Source Location*:			
Publish Location:	Trusted		
Remove			
			Close

Registered Repositories Dialog > Edit

**3.** PowerShell ModuleManager will apply the changes to the repository:

Registered Repositories				
Name	Publish Location	Source Location	Trusted	
PSGallery	https://www.powersheligallery.com	https://www.powershellgallery.com/ap	Trusted	
PSModuleRepo	C:\SAPIEN\LocalRepo\Package	C:\SAPIEN\LocalRepo	Trusted	

# How to unregister a repository

### To unregister a repository

1. On the Home ribbon > click Registered Repositories:



2. Select a repository, and then in the Remove section, click Unregister Repository:

Registered Reposi	tories		×
Name	Publish Location	Source Location	Trusted
PSGallery	https://www.powershellgallery.com	https://www.powershellgallery.com/ap	Trusted
PSModuleRepo	C:\SAPIEN\LocalRepo\Package	C:\SAPIEN\LocalRepo	Trusted
- Edit			
Source Location:	C:\SAPIEN\LocalRepo		
Publish Location:	C:\SAPIEN\LocalRepo\Package		
Installation Policy:	✓ Trusted		
		Upda	te Repository
Add			
Name*:			
Source Location*:			
Publish Location:			
Installation Policy:	Trusted		
Remove	nositony		
on egister rej			
			Close

Registered Repositories Dialog > Remove

**3.** Click **OK** to confirm:

PowerSh	ell ModuleManager	×
	Are you sure you would like to unregister repository PSModuleRepo	0?
	OK Cancel	

**4.** PowerShell ModuleManager will remove the repository:



## How to change the default registered repository

The default registered repository is the PowerShell Gallery (PSGallery). This can be changed in **File** > **Options** > **General** > **PowerShell**:

PowerShell		
Machine:	LAPTOP-	
Repository:	PSGallery	
	(Changing the set repository of a Machine will make the installed module information refresh)	
Installation Scope:	C Current User	
	e All Odera	_\

Options > General > Powershell

# 4.5 Managing Remote Connections

PowerShell ModuleManager allows you to manage modules on remote machines. The tasks in this section show you how to add, connect to, and remove a remote machine.

## **Remote Connections**

You can manage remote machine connections in the **Remote Connections panel**, located in the middle-left of the PowerShell ModuleManager workspace:

🐱 💻 付 🔅 🔹			itop-SAPIENT ester - PowerShell	Module
File Home Tools	Help			
Update	Uninstall	sions	📕 User 📕 System 📕 Disa	م abled
	Installed		Filter	
Remote Connections .	× 📃 Desktop-SAPIENTester 🗴	LAPTOP		
	Status	Name	Author	
Deskton-SAPIENTester	Update Available	Az.Accounts	Microsoft Corporation	
SAPIENTester	<ul> <li>Update Available</li> </ul>	Az.Compute	Microsoft Corporation	
	➤ Update Available	Az.Resources	Microsoft Corporation	
	<ul> <li>Update Available</li> </ul>	Az.Storage	Microsoft Corporation	
	<ul> <li>Update Available</li> </ul>	AzureADPreview	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzurePSDrive	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.ApiManagement	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.CognitiveServices	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.Compute	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.Dns	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.Insights	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.KeyVault	Microsoft Corporation	
	<ul> <li>Update Available</li> </ul>	AzureRM.profile	Microsoft Corporation	
	<ul> <li>Up-to-date</li> </ul>	Carbon	Aaron Jensen	
	Update Available	DataProtectionManagerCX	Jan Egil Ring	

Remote Connections panel and remote machine open in Main Window

Double-click on an existing connection in the Remote Connections panel to view the remote machine in the main window .

# How to add a remote machine

#### To add a remote connection

• In the Remote Connections panel, click the Add Connection button:



-OR-

• Right-click on the Remote Connections panel, then select Add Connection:



The Remote Credentials dialog will open:

Remote Credentials		×
Remote Computer:		
Credentials		
Password:		
	ОК	Cancel

Remote Credentials Dialog

In the Remote Credentials dialog:

- 1. Enter the computer name in the Remote Computer field, or search connected computers (...).
- 2. Enter the credentials and click OK to add the remote computer.

A new tab with the computer's name will appear in the main window when the remote machine is connected:



 $oldsymbol{i}$  If a connection is not established, an error will display in the Log panel:



## How to connect to a remote machine

#### To connect to an existing remote machine

• In the Remote Connections panel, double-click on an existing connection:



A new tab with the computer's name will appear in the main window when the remote machine is connected:



 $igcolumbdolumbol{i}$  If a connection is not established, an error will display in the Log panel:



### How to remove a remote machine

#### To remove a remote connection

• In the Remote Connections panel, select the remote machine and then click the **Remove Connec**tion button:



#### -OR-

• In the Remote Connections panel, right-click on the remote machine, then select **Remove Connection**:



The remote machine is removed from the Remote Connections panel.

# 5 Reference

The Reference section documents all of PowerShell ModuleManager's menu options and dialogs, and also covers the available program and customization options. Information about the SAPIEN Updates tool is also provided, as well as the Frequently Asked Questions.

There are extensive cross-references and links to the Managing Modules procedures sections, enabling you to find relevant task-based instructions for what is described in the Reference topics.

# 5.1 Program Options

The Options dialog contains program settings that are available for PowerShell ModuleManager. We recommend that you review these options to understand the settings that you can adjust and configure.

## Accessing the program options

#### To access the program Options

• On the ribbon, select File > Options:



-OR-

• On the ribbon, select Home > Options:



The Options open in the main window  $\boxed{16}$ , located in the center of the PowerShell ModuleManager workspace.

## Closing the program options

#### To close the program options

• Click the X on the right of the Options tab:

LAPTO	D <del>P-</del>	Options 🗴	•
General	Settings ✓ Cache module infor	Close Show warning before uninstall	
Panels	<ul> <li>Automatically check</li> </ul>	; for module updates	
	Save All Setting	s Load Settings	
	PowerShell		
	Machine:	LAPTOP-	
	Repository:	PSGallery	
		(Changing the set repository of a Machine will make the installed module information refresh)	
	Installation Scope:	Current User All Users	

## 5.1.1 Program Options - General

The options on the **General** tab control various module settings such as the cache, uninstall, and update behaviors. They also allow you to save and load all program settings, as well as set the Repository and Installation Scope for a selected machine.

# Reference

LAPTO	P-	Options ×
General	Settings	
Panels	Cache module inform Automatically check	nation on close Show warning before uninstall
	Save All Setting	Load Settings
	PowerShell	
	Machine:	LAPTOP-
	Repository:	PSGallery
		(Changing the set repository of a Machine will make the installed module information refresh)
	Installation Scope:	Current User All Users

Program Options > General tab

# **Settings** These settings control the module cache, uninstall, and update behavior, and also allow you to save and load setting configurations.

#### Cache module information on close

Caches module information from the current session to load into the next session, allowing the application to load faster.

#### Show warning before uninstall

Prompts with a confirmation dialog before uninstalling a module.

#### Automatically check for module updates

During program startup, by default PowerShell ModuleManager automatically checks for updates by comparing the installed modules to the modules in the set repository.

The set repository can be changes in File > Options > General > Power-Shell.

#### Save All Settings...

Saves all current program settings. Be default the settings are saved to:

%systemdrive%\Program Files\SAPIEN Technologies, Inc\PowerShell ModuleManager<yyyy>\PowerShellModuleManager.Settings.xml

#### Load Settings...

Opens File Explorer to load previously saved settings:

Organize • New folder					800	-	0
. Marketing	^	Name	Date modified	Туре	Size		
Projects		Online	6/24/2019 1:45 PM	File folder			
🚴 Sales		Provider	6/24/2019 1:45 PM	File folder			
🚴 SAPIEN Engineering		PowerShellModuleManager.Settings	7/1/2019 11:21 AM	XML Document	7 KE	3	
SAPIEN Software		QuickAccessToolbar	5/20/2019 2:41 PM	XML Document	5 KE	3	
SAPIFN Tools	~						
SAPIEN Software	~		J/20/2013 2.41 PM	Ame Document		2.);	

#### PowerShell

These settings allow you to set the Repository and Installation Scope for the selected machine.

#### Machine

Select the machine name from the drop-down list. The default is the local machine name.

#### Repository

Designates the repository used when searching for module information, updating modules, and browsing in Repository Search.

#### Installation Scope

Specifies where modules will be installed when updating or installing:

#### Current User

## 5.1.2 Program Options - Panels

The options on the **Panels** tab allow you to reset the Quick Access Toolbar, and reset or reload the Panel Layout.

LAPTO	р.	Options ×		*
General	Ribbon Reset Quick Ac	ccess Toolbar		
Panels	Panel Layout Reload Previo	ous State	Reset to Default State	

Program Options - Panels tab

Ribbon	Reset Quick Access Toolbar
	Resets the Quick Access Toolbar to its default state.
Panel Layout	Reload Previous State
	Reloads the panels to the same layout pattern they were in the last time you
	opened PowerShell ModuleManager.
	Reset to Default State
	Restores the PowerShell ModuleManager panels to the default layout.

# 5.2 Workspace, Ribbons and Dialogs

This section provides details for the PowerShell ModuleManager workspace and all of its elements.

File Frame Tools H	elp	I MATERS.	- RoverShell ModuleManager			
Updato	Uninstall er	Enter Inc) to constitu	stem Disabled	Repository Search Available Versions Registered Repositories Respository	Skip Publisher Check:     Collapse     Collapse     Lish     Lish	All J All
Remote Connections				• Information		• <u>×</u>
1	Status	Name	Author			
Desktop-SAPIENTester	D Up-to-date	Azure	Microsoft Corporation			
SAPIENTester	<ul> <li>Update Available</li> </ul>	Azure.Storage	Microsoft Corporation		Azure	
	<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation			
	Update Available	AzureRM.Sql	Microsoft Corporation		Microsoft Azure PowerShell - Service Management	
	<ul> <li>Update Available</li> </ul>	Cisco.UCS.Core	Cisco Systems			
	<ul> <li>Up-to-date</li> </ul>	ContainerImage	jayshah	and a second sec	Author(s)	
	<ul> <li>Update Available</li> </ul>	CoreCLI	Nathan Mederos	Latest Version	Microsoft Corporation	
	<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation.Validation	Microsoft	5.3.0	1	
	<ul> <li>User Module</li> </ul>	ModuleProject	User	Last Published	Installed Version(s)	
	<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance	farehar	5.00.0010	5.3.0	
	<ul> <li>Update Available</li> </ul>	PackageManagement	Microsoft Corporation	5/22/2018	Release Notes	
	<ul> <li>Update Available</li> </ul>	Pester	Pester Team	Downloads	1 Add ExtendedProperty competer to New America	Condition and
	<ul> <li>Disabled</li> </ul>	PowerHTML	Justin Gröte	7 857 141	Set-AzureService	lervice and
	<ul> <li>Update Available</li> </ul>	PowerShellGet	Microsoft Corporation			
	Deabled	PSReadline	Microsoft Corporation		Minimum PowerShell Version	
	<ul> <li>Update Available</li> </ul>	PSScriptAnalyzer	Microsoft Corporation			
	<ul> <li>Disabled</li> </ul>	TestExampleModuleProj	Paulette			
	<ul> <li>User Module</li> </ul>	TestModuleProject	Paulette		Dependencies	
	<ul> <li>Up-to-date</li> </ul>	Write-ObjectToSQL	John Roos			
					Tag(s)	
				Commands		
				<ul> <li>Get-Azure</li> </ul>	AutomationCertificate	Cmdlet 🖌
				<		$\rightarrow$
Openhied Modules		-	1 8 X 100			×
			>> Checking	modules for undates	on LAPTOR-ET3402K3 from repository PSGall	erv al
Enable 🙇 Uninstall			>> Einished	checking for undate	s on LAPTOP-EI3402K3 from repository PSGall	lery.
LAPTOP-				and a sparce	the second	
A C PowerHTML						
	C:\Program Files\WindowsPo	owerShell\Modules\PowerHTML\0.1.6				
PSReadine						
	C:\Program Files\WindowsPo	owerShell/Modules/PSReadline\1.2				
TestExampleModuleProj						
1.0.0.0	C:\Users\Paulette\Document	s\WindowsPowerShell\Modules\TestExampleModuleProj				

PowerShell ModuleManager workspace

A. File Menu B. Quick Access Toolbar C. Main Window D. Local Machine E. Search and Filter
F. Send Feedback G. Ribbon Header Buttons H. Ribbon Toolbar I. Information Panel J. Log
Panel K. Status Bar L. Disabled Modules Panel M. Remote Connections Panel

### **File Menu**

The <u>File Menu</u> on the ribbon has options to view your local machine, refresh all installed modules (*F5*), change the PowerShell execution policy, and access the PowerShell ModuleManager program options.

The <u>Quick Access Toolbar</u> on the top-left of the program window provides easy access to frequently used functions, and you can easily <u>add your own controls</u> to this toolbar.

#### **Main Window**

The main window 123 is located in the center of the PowerShell ModuleManager workspace and is a central area for managing modules installed on the Local Machine 120 and any Remote Connections 137. When the Program Options are accessed, they will also appear in the main window.

## Local Machine

The Local Machine tab is located in the main window and is used to manage locally installed modules.

## Search and Filter

The Filter section on the Home ribbon allows you to search and filter at installed modules.

### Send Feedback

The <u>Send Feedback</u> menu on the top-right of the program workspace provides links to our customer support forums where you can report a problem, ask a product-related question, and submit a suggestion or feature request.

## **Ribbon Header Buttons**

The <u>Ribbon Header Buttons</u> on the top-right of the ribbon provide options to minimize the ribbon, change color-themed skins, view license information, and display product information.

#### **Ribbon Toolbar**

The Ribbon Toolbar, or <u>Ribbon</u> is organized in tabs, with each tab containing tools grouped logically by function. Some tools also provide access to dialogs with additional options.

## **Information Panel**

The Information panel [133] displays details for installed modules.

## Log Panel

The Log panel displays PowerShell ModuleManager output messages.

## **Status Bar**

The <u>Status Bar</u> 120 displays the current number of installed modules.

## **Disabled Modules Panel**

The <u>Disabled Modules panel</u> displays all disabled modules, where they can easily be enabled or uninstalled.

## **Remote Connections Panel**

Use the <u>Remote Connections panel</u> 137 to add, manage, and remove remote connections. When a remote connection is added and opened, it will appear as a tab in the <u>main window</u> 123.

### 5.2.1 The Ribbon

PowerShell ModuleManager displays a Ribbon toolbar, or "Ribbon," at the top of the application window:





The Ribbon Toolbar is where you access virtually all of PowerShell ModuleManager's functions. The ribbon is context-sensitive, automatically displaying the functions relevant to what you are doing at the moment. Functions that are not available are grayed out.

## **Accelerator Keys**

Many of the ribbon controls are accessible from the keyboard; press and release the  $\langle Alt \rangle$  key once, and the <u>accelerator keys</u> will be displayed as icons superimposed on the ribbon:



Accelerator Keys

## **Ribbon Tabs**

Each tab on the ribbon contains tools grouped into sections based on related functions. Some controls also provide access to dialogs with additional options.

- File 107 A menu of frequently used functions.
- Home Controls for searching, installing, and managing modules.
- Tools Links to external PowerShell and SAPIEN tools.
- Help Links to product updates, the user manual, and online links to SAPIEN sites and support forums.

#### 5.2.1.1 The File Tab

The File tab on the ribbon has a menu of frequently used functions:



The File Menu
### File Menu:

Local Machine	View modules installed on the local machine.	
Refresh Installed (F5)	Refresh information for all installed modules.	
Change Execution Policy	Opens the <b>Script Security Center</b> GUI interface, where you can change the PowerShell execution policy for both 32-bit and 64-bit shells.	
Options	Access the PowerShell ModuleManager program options.	
Exit	Close the PowerShell ModuleManager application.	
The File menu options are also available on the Quick Access Toolbar [117] above the ribbon.		

#### 5.2.1.2 The Home Tab

The **Home** tab contains the functions used to search, install, and manage modules. It also provides access to the PowerShell ModuleManager program options and panels.



The Home Ribbon

The tools on the Home ribbon are grouped into sections based on related functions.

# The Installed section

The Installed section on the Home tab has options for managing your installed modules:



Home > Installed

Update (Ctrl+U)	Checks if there is an update for the selected module. If there is, the module is updated.
<b>Update All</b> ( <i>Ctrl+Shift+U</i> )	Installs the most recent version of all modules. The update time will vary, depending on the number of installed mod- ules.
Update, Remove Old	Installs the latest version of the selected module, and all previous versions are uninstalled.
Move Module	Opens the Move <i><module></module></i> dialog where you can designate a destination folder and move the module.
Open Root Module	Opens the default editor allowing you to edit the root module source code.
<b>Open Containing Folder</b> ( <i>Ctrl+O</i> )	Opens the folder containing the module.
Uninstall (Ctrl+R)	Uninstalls a specific module version.
Uninstall Older Versions	Keeps the latest installed module version and uninstalls all older versions.
Disable (Ctrl+D)	Disables the selected module.
	i A highlighted <b>Disable</b> button indicates that the module is <i>disabled</i> ; clicking the highlighted <b>Disable</b> button will <i>en-</i> <i>able</i> the module.
Clean Up	Removes older versions of <i>all</i> modules, only keeping the latest versions installed.

For more information about these controls, view Updating Modules [53], Moving Modules [53], and Disabling and Uninstalling modules [53].

# The Filter section

The **Filter** section on the Home tab allows you to search and filter modules installed on your machine:

# Reference

Enter text to	search			م
Update	Up-to-date	User	System	<b>Disabled</b>
		Filter		
	Ho	ome > Filt	er	

# Filter section:

Enter text to search	Search locally installed modules.
Update	Show modules that have an update available.
Up-to-date	Show modules that have the latest available version installed.
User	Show modules local to your machine, or modules that PowerShell ModuleManager cannot locate on the repository designated in Options
System	Show modules that are in the local system folder.
Disabled	Show modules that are disabled.

For more information about these options, view Finding Installed Modules 45.

# The Repository section

The **Repository** section on the Home tab allows you to view all available module versions, and you can also search, register, and publish to repositories:



# **Repository Section:**

Repository Search (Ctrl+F)	Search for modules to install from a repository.
Available Versions (Ctrl+V)	Install a specific version of a module from a repository.
Registered Repositories	Manage the PowerShell module repositories registered for the current user.
Publish Module	Publish a module to a repository.

For more information about these options, view <u>Searching for Modules</u>, <u>Installing Modules</u>, <u>Publishing Modules</u>, and <u>Managing Repositories</u>.

# The Installation Checks section

The **Installation Checks** section on the Home tab allows you to control some installation options when installing and updating modules:



for the buttons act like toggles—turning the features on or off.

# **Installation Checks section:**

Skip Publisher Check	Allows the installation of a newer module version that is digitally signed by a trusted publisher, replacing an existing, unsigned ver- sion.
Allow Clobber	Forces the installation of a module, even when another module contains an identical command.
Accept License	Accepts the license agreement during installation. This option is not available in older versions of PowerShellGet.

For more information about these options, view Module Installation Options 43.

# The Window section

The **Window** section on the Home tab allows you to expand or collapse the module information displayed, open the program options, and control the panels displayed in the program window:



Home > Window

# Window section:

Options	View the PowerShell ModuleManager program options.
Panels	Click the Panels drop-down to display the options:
	Panels   Information   Disabled Modules   Remote Connections   Log   Reset Layout
	<b>Information</b> Click to show or hide the Information panel in the program window.
	<b>Disabled Modules</b> Click to display or hide the Disabled Modules panel in the program window.
	<b>Remote Connections</b> Click to display or hide the Remote Connections panel in the program win- dow.
	<b>Log</b> Click to display or hide the Log panel in the program window.
	<b>Reset Layout</b> Click to restore the panel layout to the default state.
Expand All	Expand all rows in the <u>machine tab</u> [120] to view information for all installed module versions.
Collapse All	Collapse all rows in the <u>machine tab</u> 120 to view condensed information for in- stalled modules.

For more information about these options, see <u>Program Options</u>, <u>Panels and Layout</u>, and <u>View Installed Versions</u>.

### 5.2.1.3 The Tools Tab

The Tools tab on the ribbon contains links to PowerShell tools and SAPIEN applications:



The Tools Ribbon

The Tools ribbon has two sections: PowerShell and SAPIEN.

# The PowerShell section

The **PowerShell** section on the Tools tab has buttons to launch PowerShell tools:



# **PowerShell section:**

PowerShell Console	Opens the PowerShell Console in a separate window.
PowerShell ISE	Opens the PowerShell ISE in a separate window.
PowerShell Core	Opens the PowerShell Core Console in a separate window.
Update-Help	Updates PowerShell's Help content.

# The SAPIEN section

The SAPIEN section on the Tools tab has buttons to launch SAPIEN applications:



# **SAPIEN** section:

PowerShell Studio	Opens the SAPIEN PowerShell Studio application.
WMI Explorer	Opens the SAPIEN WMI Explorer application.
PrimalScript	Opens the SAPIEN PrimalScript application.
PowerShell HelpWriter	Opens the SAPIEN PowerShell HelpWriter application.
PrimalSQL	Opens the SAPIEN PrimalSQL application.
PrimalXML	Opens the SAPIEN PrimalXML application.
VersionRecall	Opens the SAPIEN VersionRecall application.

### 5.2.1.4 The Help Tab

The **Help** tab on the ribbon contains links to the PowerShell ModuleManager help manual, SAPIEN product updates, and SAPIEN online:



The Help Ribbon

The Help ribbon has three sections: Product Help, Updates, and Online.

# The Product Help section

The Product Help section on the Help tab has a link to the PowerShell ModuleManager user manual:



Help > Product Help

# **Product Help section:**

Product Manual Opens the PowerShell ModuleManager help manual.

# The Updates section

The Updates section on the Help tab contains product update options:



U.	nd	ates		cti	on.
U	μu	ales	s se	CU	<b>U</b> II.

**Check For Updates** 

Opens the <u>SAPIEN Updates</u> tool.

# The Online section

The Online section on the Help tab has links to SAPIEN support websites:



# Online section:

MySAPIEN Account	Opens your SAPIEN Account page in a web browser.
SAPIEN Blog	Opens the SAPIEN blog in a web browser.
Support Forums	Opens the SAPIEN Support page in a web browser.

### 5.2.2 Other Toolbars

This section provides a reference for the smaller ribbons and toolbars.

# Quick Access Toolbar

The configurable Quick Access Toolbar on the top-left of the program window provides direct access to frequently used functions:



Quick Access Toolbar

# Button details (from left to right):

Local Machine	View modules installed on the local machine 120.	
Refresh Installed (F5)	Refresh information for all installed modules.	
Change Execution Policy	Opens the <b>Script Security Center</b> GUI interface, where you can change the PowerShell execution policy for both 32-bit and 64-bit shells.	
Customize Quick Access Toolbar	r Click the drop-down icon on the right of the toolbar to disp the options:	
	<ul> <li>Local Machine</li> <li>Refresh Installed</li> <li>Change Execution Policy</li> </ul>	

### Local Machine

Select or deselect to show the Local Machine button on the toolbar.

Show Quick Access Toolbar Below the Ribbon

#### **Refresh Installed**

Select or deselect to display the Refresh Installed button on the toolbar.

#### **Change Execution Policy**

Select or deselect to display the PowerShell Execution Policy button on the toolbar.

Show Quick Access Toolbar Below the Ribbon Click to display the Quick Access Toolbar below the ribbon.

See how to <u>customize the Quick Access Toolbar</u>

### Send Feedback

The Send Feedback menu is on the top-right with the program window controls. The Send Feedback menu contains options to report a problem, submit a suggestion, or copy the product information:



Send Feedback Menu

# Menu options (top to bottom):

Report a Problem	Report a problem or ask a product-related question.		
	<ul> <li>Registered customers are directed to the <u>Product Support</u> forums.</li> </ul>		
	<ul> <li>Users of trial versions are directed to the <u>Trial Software /</u> <u>Pre-sales Technical Questions</u> forum.</li> </ul>		
Provide a Suggestion	Submit a suggestion on the Feature Requests page.		
Copy Product Information	Copy your PowerShell ModuleManager build number and OS in- formation to the clipboard so that you can paste it into a new topic in the SAPIEN forums.		

When reporting a PowerShell ModuleManager problem or submitting a question, use the Copy Product Information option to copy the product build number and OS information to your clipboard, and then paste this information into your forum post.

# **Ribbon Header Buttons**

There are four ribbon header buttons on the right above the ribbon:



Ribbon Header Buttons

# Button details (from left to right):

Minimize the Ribbon (Ctrl+F1)	Toggle the ribbon toolbar:
	Minimize:
	Only show tab names on the ribbon.
	<b>Expand:</b> Show the ribbon so that it is always expanded even after you click a command.
Skins	Select color-themed skins 25.
License Information	Display and edit your current license information.
About	Display production information.

### Status Bar

The status bar on the bottom of the PowerShell ModuleManager workspace displays the number of installed modules:

Modules Installed: 103

### 5.2.3 Machine Tab and Main Window

Installed modules are managed in the Machine tab 120, which is centrally located in the main window 123 of the PowerShell ModuleManager workspace. Both local and remote machines will appear as tabs with the name of the machine.

# **Machine Tab**

A 'machine tab' is either a <u>local</u> 15 or <u>remote machine</u> 2, represented as a tab in the main window of the PowerShell ModuleManager workspace. When you launch PowerShell ModuleManager, by default the local machine appears as a machine tab:



Machine tab (Local Machine) in the Main Window

The machine tab is where you view and <u>manage installed modules</u> [45].

# How to access module options

# To access options for installed modules

- 1. Highlight a module in the machine tab
- 2. Select the desired control on the Home ribbon

#### -OR-

Right-click and select an option in the context menu

₩ 💻 🕐 😻 🔹	elp	LAPTOR	- PowerShell ModuleMan	ager			<u>ي</u> -	- • ×
Update Open Containing Fold	er	Enter test to search	,p r 🔜 System 📒 Disabled	Repository Search Available Versions Registered Repositori Repository	Publish Module	Skip Publisher Check     Allow Clobber     Accept License     Installation Checks	Coptions	Exapnd All
Remote Connections	LAPTOP X		*	Vi Information		00.00m/00/002.024		• •
Home ribbon	Status Update Available Repository	Name AzureRM.Network Update  WindowsPe	Author Microsoft Cor	N	Az	ureRM.Netw	ork	
	Update Available     Repository     Up-to-date	Available versions Disable Uninstall	Power <sup>S</sup> Context men	u st Version	Manager	(S)	work service o	mdlets for Azu
	Up-to-date     Uo-to-date	ContainerImage Format-Pester	jayshah Erwan Queln	6.11.1	Microsoft	Corporation		

• The options available on the Home ribbon and the context menu will vary, depending on whether the tab selected is a local machine or a remote connection.

# Machine tab context menu

Right-click a module in the machine tab to display the menu options:



Menu options	
Update (Ctrl+U)	<b>Update</b> Checks if there is an update for the selected module. If an update is available, the module is updated.
	<b>Update</b> > <b>Allow Clobber</b> Allows the installation of a newer module version that is digitally signed by a trusted publisher, replacing an existing, unsigned ver- sion.
	<b>Update</b> > <b>Skip Publisher Check</b> Forces the installation of a module, even when another module contains an identical command.
	<b>Update</b> > <b>Accept License</b> Accepts the license agreement during installation. <b>i</b> This option is not available in older versions of PowerShellGet.
	Update > Remove Old Versions Installs the latest version and uninstalls all previous versions.
Available Versions ( <i>Ctrl+V</i> )	Retrieves all available versions from the set repository. Ýou can install modules directly from the <u>Versions dialog</u>
Disable (Ctrl+D)	Disables the selected module. The Disable feature behaves like a toggle.
Uninstall (Ctrl+R)	Removes the module from the machine.

The options available on the context menu will vary, depending on whether the tab selected is a <u>local machine</u> for a <u>remote connection</u> for a <u>rem</u>

See Finding Installed Modules for details on how to search, sort, filter, and view all modules in the machine tab.

# **Main Window**

The **main window** provides a centralized location for managing modules installed on your local and remote machines. The main window also displays the program Options.

The local machine, remote machines, and program options display as tabs in the main window:

LAPTOP- ×	E Desktop-SAPIENTester		
Status	Name 💦	Author	
Ur ate Available	AWSPower, hell.NetCore	Amazon.com, Inc	
to-date	Azure Optio	ons osoft Corporation	
· Andre Server	Azure.S Remote Machine	osoft Corporation	
Local Machine	AzureRI	Microsoft Corporation	
Up-to-date	AzureRM.profile	Microsoft Corporation	
<ul> <li>Update Available</li> </ul>	AzureRM.Sql	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco Systems	
Up-to-date	ContainerImage	jayshah	
<ul> <li>Up-to-date</li> </ul>	Format-Pester	Erwan Quelin	
<ul> <li>User Module</li> </ul>	Microsoft.PowerShell.Operation.Validation	n Microsoft	
<ul> <li>User Module</li> </ul>	ModuleProject	User	
<ul> <li>Up-to-date</li> </ul>	ModuleRequireLicenseAcceptance	farehar	
Up-to-date	PackageManagement	Microsoft Corporation	
Up-to-date	Pester	Pester Team	
Disabled	PowerHTML	Justin Grote	
Up-to-date	PowerShellGet	Microsoft Corporation	

Main Window - Local Machine tab, Remote Machine tab, Options tab

# How to navigate between tabs

#### To navigate between tabs in the main window

• Click the desired tab, or select an option in the Window List drop-down on the top-right:



### How to view the local machine

#### To view the local machine

• By default, the local machine is always visible in the main window.

If the local machine tab is not visible in the main window you can reopen it by clicking the button on either the Quick Access Toolbar or the File menu (**File > Local Machine**):



### How to view a remote machine

🛈 To view a remote machine, you must first <u>add a remote connection</u> 🔊 ो.

### To view a remote machine

• In the Remote Connections panel, double-click on an existing connection:



A new tab with the computer's name will appear in the main window when the remote machine is connected:

🎦 🚍 🕓 🌻 🔹		Desktop	-SAPIENTester - PowerShell Module
File Home Tools Help			
Update	Uninstall	ersions	م User 🔜 System 📒 Disabled
Insta	lied	PF#	ter
Remote Connections 🛛 🖡 🗙	LAPTOP	📃 Desktop-SAPIENTester 🛛 🗙	7
	Status	Name	Author
Deskton-SADIENTester	Update / dole	Az.Accounts	Microsoft Corporation
SAPIENTester	Un Available	Az.Compute	Microsoft Corporation
	Update Available	Az.Resources	Microsoft Corporation
	Update Available	Az.Storage	Microsoft Corporation
	Update Available	AzureADPreview	Microsoft Corporation
	Up-to-date	AzurePSDrive	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzureRM.ApiManagement	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzureRM.CognitiveServices	Microsoft Corporation

# How to view the program options

# To see the program options

• On the ribbon, select File > Options:



#### -OR-

• On the ribbon, select **Home** > **Options**:





The program Options will appear as a tab in the main window.

# How to close a tab in the main window

# To close a tab in the main window

• Click the **X** on the right of the tab:



**i** If the local machine tab is not visible in the main window you can reopen it by clicking the button on either the Quick Access Toolbar or the File menu (**File** > **Local Machine**):



### 5.2.4 Panels

PowerShell ModuleManager has dockable window panels that are used by dedicated features or to display output. This topic provides an overview of the available panels and their content.



PowerShell ModuleManager Panels

# PowerShell ModuleManager panels

Disabled Modules	Displays disabled modules. Use this panel to enable and uninstall modules.
Information	Displays detailed information for modules highlighted in the machine tab.
Log	Displays PowerShell ModuleManager output messages.
Remote Connections	Displays remote connections. Use this panel to add, remove, and con- nect to remote machines.

For information about working with panels, see Customizing Your Workspace > <u>Panels and Lay-out</u>

#### 5.2.4.1 Disabled Modules Panel

Disabled modules can be viewed and managed in the Disabled Modules panel.

### The Disabled Modules Panel

The Disabled Modules panel is in the bottom-left of the PowerShell ModuleManager workspace:

Disabled Modules			#	×
💋 Enable 🛛 🛕 Uninstall				
A 🔜 LAPTOP				
🔺 🌠 ModuleProject				
1.0.1.3	C:\Users\Paulette\Documents\WindowsPowerShell\Modules\ModuleProject			
🔺 🌠 Azure.Storage				
4.6.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0			
4.5.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0			
🔺 🌈 AWSPowerShell.NetCore				
3.3.542.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3	.542	.0	
3.3.509.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.3	.509	.0	

#### Disabled Modules Panel

 $\bullet$  You can <u>enable</u>  $\bullet$  or <u>uninstall</u>  $\bullet$  modules by selecting a module and clicking the  $\bullet$  or  $\bullet$  button in the top-left of the panel, or by right-clicking and selecting from the <u>context menu</u>  $\bullet$ .

### Understanding how the Disable feature works

The PowerShell ModuleManager **Disable** feature moves a module from the path saved in the value of the PSModulePath environment variable (\$env:PSModulePath). Disabling a module is not the same as *uninstalling*. Disabling a module moves it to a user's AppData folder, and enabling moves it back to the previous location. If modules are no longer needed, they should be uninstalled.

### Disabled Modules panel context menu

Right-click a module in the Disabled Modules panel to display the following options:



# Menu options:

**Enable** Move the module back to its original directory.

**Uninstall** Remove the module from the machine.

# How to enable modules

# To enable a module

• Select a module, and then click the **Enable** button:

Disable	d Modules		•	×
🖌 Enal	ble 🔔 Uninstall			
4 🔜 LA	PTOP-			
6	Azure.Storage			
	4.6.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0		
	4.5.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0		
	ModuleProject			
	1.0.1.3	C:\Users\Paulette\Documents\WindowsPowerShell\Modules\ModuleProject		
A 64	AWSPowerShell.NetCore			
	3.3.542.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.542.	0
	3.3.509.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.509.	0

-OR-

• Right-click on a module, and then select **Enable** from the context menu:

Disable	d Modules			<b>#</b>	×
🕼 Enat	ole  Üninstall				
🔺 🔜 LAI	PTOP-				
😼	Azure Enable				
	4.6.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.6.0			
F	4.5.0	C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0			
2 🚰	ModuleProject				
	1.0.1.3	C:\Users\Paulette\Documents\WindowsPowerShell\Modules\ModuleProject			
× 🚰	AWSPowerShell.NetCore				
	3.3.542.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.547	2.0	
	3.3.509.0	C:\Program Files\WindowsPowerShell\Modules\AWSPowerShell.NetCore\3.	3.509	9.0	

**w** Selecting the parent node enables all versions; selecting a child node enables only that version.

The enabled status is displayed in the Log panel:



The Machine tab will refresh to display the enabled module(s):

LAPTOP-			•
Status	Name	Author	
<ul> <li>Disabled</li> </ul>	AWSPowerShell.NetCore	Amazon.com, Inc	
Up-to-date	Azure	Microsoft Corporation	
Up-to-date	Azure.AnalysisServices	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation	
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules\Azure.Stora		
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Stora		
Repository	(Disabled) 4.5.0 - C:\Program Files\WindowsPowerShell\Modules\A		
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation	
<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microsoft Corporation	

# How to uninstall modules

# To uninstall a module

• Select a module, and then click the Uninstall button:



#### -OR-

• Right-click on a module, and then select Uninstall from the context menu:



Selecting the parent node uninstalls all versions; selecting a child node uninstalls only that version.

The uninstall status is displayed in the Log panel:



The Machine tab will refresh, and the uninstalled module(s) will not be listed:

LAPTOP- ×		-
Status	Name	Author
Disabled	AWSPowerShell.NetCore	Amazon.com, Inc
Up-to-date	Azure	Microsoft Corporation
Up-to-date	Azure.AnalysisServices	Microsoft Corporation
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation
Repository	4.6.1 - C:\Program Files\WindowsPowerShell\Modules	\Azur
Repository	4.6.0 - C:\Program Files\WindowsPowerShell\Modules	\Azur
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microsoft Corporation
Up-to-date	AzureRM.profile	Microsoft Corporation

i To learn more, view Managing Modules > Managing Installed Modules > <u>Disabling and Unin-</u> stalling Modules िक्षी.

#### 5.2.4.2 Information Panel

Detailed information for installed modules appears in the Information panel.

# **The Information Panel**

The Information panel is located in the middle of the PowerShell ModuleManager program window, on the right side:

Information		248
Latest Version 5.3.0 Last Published 5/22/2018 Downloads 8,303,794 Project Site License Info	Azure PowerShell - Service Manage Author(s) Microsoft Corporation Installed Version(s) 5.3.0 Release Notes * Add - ExtendedProperty parameter to New- Set-AzureService Minimum PowerShell Version 5.0 Dependencies Azure Storage (>= 4.3.0) Tag(s)	ement AzureService and
Commands		
• Get-Azure	AutomationCertificate	Cmdlet
• Get-Azure	AutomationConnection	Cmdlet
(		>

Information panel

i) Select a module in the machine tab 15 to view the details in the Information panel.

# Information panel contents

Description	A short description of the module.
Latest Version	The latest version of the module available in the repository.
Last Published	The last date the module was updated in the repository.
Installed Version(s)	The version(s) of the module installed on your machine.
Minimum PowerShell Version	The minimum PowerShell version required to run the module.
Dependencies	If dependent module(s) are listed, the dependent module ver- sion(s) will also be installed.
Tags	Keywords used to search for modules in PowerShell repositories.
	Click on a Tag to open a search for modules with the same tag.
Commands	Cmdlets, functions, or aliases contained in the module.

# Information panel context menu

Right-click in the Information panel to display the following options:

è	Сору
Q	Refresh

# Menu options:

Сору Copy text highlighted in the Information panel to the clipboard. Refresh

Refresh the content displayed in the Information panel.

#### 5.2.4.3 Log Panel

The Log panel displays all of the PowerShell ModuleManager status and output messages.

# The Log Panel

The Log panel is located on the bottom-right of the PowerShell ModuleManager workspace:



Log Panel

# Log panel context menu

Right-click on the Log panel to display the following options:

Сору	Ctrl + C
Copy HTML	Ctrl + Shift + C
Find	Ctrl + F
Select All	Ctrl + A
Clear	Ctrl + E

### Menu options:

Copy (Ctrl+C)	Copy text highlighted in the Log panel to the clipboard.
<b>Copy HTML</b> ( <i>Ctrl+Shift+C</i> )	Copy highlighted text as HTML, including color-coding and formatting.
Find (Ctrl+F)	Search the text in the Log panel.
Select All (Ctrl+A)	Select all of the text in the Log panel.
Clear (Ctrl+E)	Clear the text in the Log panel.

# Internet Connection Warning

• A warning will be displayed in the Log panel if the PowerShell repository designated in  $\underline{Op}_{\underline{tions}}$  is an online source and an internet connection is not detected:

Log	#	×
<pre>&gt;&gt; Checking modules for updates on LAPTOP-EI34D2K3 from repository PSGallery. WARNING: Unable to detect an internet connection. If the current repository in Options is an online source, then functionality may be limited. Please check your network connection. &gt;&gt; Finished checking for updates on LAPTOP-EI34D2K3 from repository PSGallery.</pre>		•

#### 5.2.4.4 Remote Connections Panel

You can manage remote machine connections in the Remote Connections panel.

# The Remote Connections Panel

The Remote Connections panel is in the middle-left of the PowerShell ModuleManager program window:



Remote Connections Panel

Vou can add or remove remote connections by clicking the  $\frac{1}{3}$  or  $\frac{1}{3}$  button in the top-left of the panel, or by right-clicking and selecting from the <u>context menu</u>.

### Remote Connections panel context menu

Right-click on the Remote Connections panel to display the following options:

- Add Connection
- Remove Connection

### Menu options:

Add Connection	Add a new connection.
Remove Connection	Delete the selected connection.

# How to add a remote machine

#### To add a remote connection

• In the Remote Connections panel, click the Add Connection button:



-OR-

• Right-click on the Remote Connections panel, then select Add Connection:



The Remote Credentials dialog will open:

Remote Credentials		×
Remote Computer:		
Credentials		
Username:		
Password:		
		Cancel

Remote Credentials Dialog

In the Remote Credentials dialog:

- 1. Enter the computer name in the Remote Computer field, or search connected computers (...).
- 2. Enter the credentials and click OK to add the remote computer.

A new tab with the computer's name will appear in the main window when the remote machine is connected:

>>> 💻 🕚 🏶 ≠ File Home Tools Help		Desktop	SAPIENTester - PowerShell Module
Update	Uninstall	ersions	م User 📕 System 📕 Disabled
Instal	ed	Fil	ter
Remote Connections 🛛 🔹 🗙	LAPTOP	📃 💻 Desktop-SAPIENTester 🛛 🗙	7
	Status	Name	- Author
Deskton-SADIENTester	Update A dole	Az.Accounts	Microsoft Corporation
SAPIENTector	Un Available	Az.Compute	Microsoft Corporation
	update Available	Az.Resources	Microsoft Corporation
	Update Available	Az.Storage	Microsoft Corporation
	Update Available	AzureADPreview	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzurePSDrive	Microsoft Corporation
	<ul> <li>Up-to-date</li> </ul>	AzureRM.ApiManagement	Microsoft Corporation
	Up-to-date	AzureRM.CognitiveServices	Microsoft Corporation

If a connection is not established, an error will display in the Log panel:



# How to connect to a remote machine

#### To connect to an existing remote machine

• In the Remote Connections panel, double-click on an existing connection:



A new tab with the computer's name will appear in the main window when the remote machine is connected:



 $igcolumbdolumbol{i}$  If a connection is not established, an error will display in the Log panel:



### How to remove a remote machine

#### To remove a remote connection

• In the Remote Connections panel, select the remote machine and then click the **Remove Connec**tion button:



#### -OR-

• In the Remote Connections panel, right-click on the remote machine, then select **Remove Connection**:



The remote machine is removed from the Remote Connections panel.

### 5.2.5 Dialogs

This topic provides an overview of the PowerShell ModuleManager dialogs and their options.

# Move Dialog

The Move dialog (Home > Move Module) allows you to move a module's location.

Move - Azure	.Storage	×
Version:	4.5.0 - C:\Program Files\WindowsPowerShell\Modules\Azure.Storage\4.5.0	
Destination:	C:\Users\Paulette\Documents\WindowsPowerShell\Modules C:\Program Files\WindowsPowerShell\Modules C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules	

Move Dialog

#### Move <module> - Field Definitions:

Version A drop-down list of installed module versions.

**Destination** A drop-down list of available destination folders.

See Installation Scope 44 for information about where modules are installed when installing or updating.

i For information about moving modules, see Managing Modules > Managing Installed Modules > <u>Moving Modules</u>

# Publish Dialog

The Publish dialog allows you to publish modules to registered repositories on your local machine, or online repositories like the PowerShell Gallery.

**We** recommend that you review the <u>version selection behavior of the Publish-Module com-</u> <u>mand</u> and the <u>publishing prerequisites</u> before publishing a module.
Publish - ModuleP	Project	×
Publish Settings		
Publish to:	PSModuleRepo	
NuGetAPI Key:		
	(A NuGet key is only required if publishing to an online repository like the PowerShell Gallery)	
Version:	1.0.1.3 - C:\Users\Paulette\Documents\WindowsPowerShell\Modul	
Optional Informat	tion	
Tags:		
	(Separate multiple tags with commas. Example tags include DesiredStateConfiguration, DSC, DSCResourceKit, or PSModule)	
License Uri:		
Icon Uri:		
Project Uri:		
Release Notes:		*
	Update the module manifest (.psd1) file	
	Publish Cancel	

Publish Dialog

### Publish < module > - Field Definitions:

Publish to*:	Select the registered repository from the drop-down list.
NuGetAPI Key:	If you are publishing to an online repository like the PowerShell Gallery, enter the NuGetAPI key.
Version*:	Select the module version.
Tags:	Keywords used to search for modules in PowerShell repositories. Se- parate multiple tags with commas.
License Uri:	The URL of licensing terms for the module.
Icon Uri:	The URL of an icon for the module.
Project Uri:	The URL of a website for the project.
Release Notes:	Comments about this version of the module.
Update the module manifest (.psd1) file:	<ul> <li>If the data in the Optional Information section already exists in the module manifest, you do not need to enter it in the Publish dialog.</li> <li>If you specify data in any of the Optional Information fields that is not already in the module manifest, you must select the <i>Update the module manifest (.psd1) file</i> checkbox to update the local module's manifest.</li> </ul>

\* Required fields

**i** For information about publishing modules, see Managing Modules > Managing Installed Modules >  $\frac{Publishing Modules}{100}$ .

### **Registered Repositories Dialog**

Registered Repositories (Home > Registered Repositories) allows you to view all of the repositories registered to your machine. You can also register, edit, and unregister repositories in the dialog.

• You can use the Registered Repositories dialog for repositories that are on network drives, but not for repositories that are on mapped drives.

# Reference

1	46

Registered Reposit	ories		×
Name	Publish Location	Source Location	Trusted
PSGallery	https://www.powershellgallery.com	https://www.powershellgallery.c	om/ap Trusted
Edit			
Source Location:		/v2	
Publish Location:		/v2/package/	
Installation Policy:	✓ Trusted		
			Update Repository
Add			
Name*:			
Source Location*:			
Publish Location:			
Installation Policy:	Trusted		
Remove			
Unradictor Par	ncitary		
			Close

Registered Repositories Dialog

### **Registered Repositories - Field Definitions:**

Edit	These fields allow you to edit the selected repository
Luit	mese helds allow you to eart the selected repository.
	Source Location
	The URL or file path of the repository to search and install modules from.
	Publish Location
	The URL or file path of the repository where modules should be published.
	Installation Policy
	Specifies the PowerShell behavior when installing from the repository:
	• Untrusted: Prompts for confirmation before installing.
	• Trusted: Does not prompt for confirmation before installing.
Add	These fields allow you to register a repository.
	Name*
	The repository name.
	Source Location*
	The LIPL or file both of the repository to search and install modules from
	The ORL of the path of the repository to search and install modules from.
	Publish Location
	The URL or file path of the repository where modules should be published.
	Installation Policy
	Specifies the PowerShell behavior when installing from the repository:
	Untrusted: Prompts for confirmation before installing.
	• Trusted: Does not prompt for confirmation before installing.
* Required fields	

# Set Repository:

The default registered repository is the PowerShell Gallery (PSGallery). This can be changed in **File** > **Options** > **General** > **PowerShell**:

PowerShell		
Machine:	LAPTOP-	
Repository:	PSGallery	
	(Changing the set repository of a Machine will make the installed module information refresh)	
Installation Scope:	Current User	
	All Users	

Options > General > Powershell

**i** For information about registered repositories, see Managing Modules >  $\underline{\text{Managing Repositor-}}_{\underline{\text{ies}}}$ 

## Remote Credentials Dialog

Remote Credentials (**Remote Connections** panel > **Add Connection**) allows you to connect to a remote machine.

Remote Credentials		×
Remote Computer:		
Credentials		
Username:		
Password:		
	ОК	Cancel

Remote Credentials Dialog

Remote Credentials - Field Definitions:		
Remote Computer	The computer name, or search connected computers ().	
Credentials	<b>Username</b> The username for the remote computer user account.	
	<b>Password</b> The password for the remote computer user account.	

**i** For information about connecting to remote machines, see Managing Modules >  $\underline{\text{Managing Re-}}$ <u>mote Connections</u>  $\boxed{\text{se}}$ .

# Repository Search Dialog

Repository Search (*Ctrl+F*) displays module information from registered repositories and allows you to add modules to your system.

Repository Se	arch					×
Search						
Search for:				٩	*	
Search by:	Filter  Tag Command Filter	Repository:	PSGallery		<b>6</b> v	
Results: -						

Repository Search Dialog

### Repository Search - Field Definitions:

Search for	Enter the search term(s).
Search by	Select an option from the drop-down list.
	Name Specifies the names of one or more modules to search for.
	🔟 This is the only parameter that supports wildcard characters.
	<b>Tag</b> Keywords used to help find modules.
	<b>Command</b> Cmdlets, functions, or aliases found in the module.
	<b>Filter</b> Filters through the name, description, and tags for the search argument based on the PackageManagement module provider-specific search syn- tax. For NuGet modules, this is the equivalent of searching by using the Search bar on the PowerShell Gallery website.
Repository	Select a repository from the drop-down list.
	<b>i</b> The default registered repository is the PowerShell Gallery (PSGallery). This setting can be changed in <b>File</b> > <b>Options</b> > <b>General</b> > <b>PowerShell</b> .

**1** For information about searching for modules, see Managing Modules > <u>Searching for Mod-</u> <u>ules</u>  $3^{-1}$ .

# Versions Dialog

The Versions (*Ctrl+V*) dialog allows you to view and install all available versions of a module.

Version	Downloads	Published		Release Notes:	
3.3.563.1	26,421	8/9/2019	*	https://sithub.com/sus/sus_tools_for	
3.3.563.0	577	8/9/2019		powershell/blob/master/CHANGELOG.md	
3.3.553.0	13,773	7/19/2019			
3.3.542.0	15,372	6/28/2019			
3.3.522.0	21,433	5/31/2019			
3.3.509.0	10,974	5/14/2019			
3.3.498.0	17,879	4/25/2019			
3.3.485.0	11,636	3/28/2019			
3.3.462.0	11,066	2/25/2019			
3.3.450.0	7,990	2/6/2019			
3.3.428.0	15,583	12/15/2018			
3.3.422.0	2,451	12/6/2018	ie)	Install	

Versions Dialog

You can sort the Version, Downloads, and Published columns, and also right-click and copy the Release Notes:

	1	1	Sortable columns		
Version	Downloads	Published	Release Notes		
3.3.563.1	26,408	8/9/2019			
3.3.563.0	577	8/9/2019	powershell/bl	ob/master/CHANGELOG.md	÷
3.3.553.0	13,773	7/19/2019		🐟 Undo	
3.3.542.0	15,372	6/28/2019			
3.3.522.0	21,432	5/31/2019	Select and copy	℅ Cu <u>t</u>	
3.3.509.0	10,974	5/14/2019	Release Notes	<b>С</b> ору	
3.3.498.0	17,879	4/25/2019		Paste	
3.3.485.0	11,636	3/28/2019		N. Delete	
3.3.462.0	11,066	2/25/2019		× <u>D</u> elete	
3.3.450.0	7,988	2/6/2019		Select <u>A</u> ll	
3.3.428.0	15,583	12/15/2018			
3.3.422.0	2,451	12/6/2018		2	Install

There are two ways to install a selected version:

- Right-click and select Install (Ctrl+I).
- Click the **Install** button.

ersions -	AWSPowerSh	ell.NetCore		×
Version	Downloads	Published	Release Notes'	
3.3.563.1	26,408	8/9/2019	A https://white.com/outpace.tools.for	
3.3.563.0	577	8/9/2019	powershell/blob/master/CHANGELOG.md	
3.3.553.0	13,773	7/19/2019		
3.3.542.0	📩 Install	Ctri+l 🚽 019		
3.3.522.0	21,432	5/31/2019		
3.3.509.0	10,974	5/14/2019		
3.3.498.0	17,879	4/25/2019	Install entions	
3.3.485.0	11,636	3/28/2019	Install options	
3.3.462.0	11,066	2/25/2019		
3.3.450.0	7,988	2/6/2019		1.00
3.3.428.0	15,583	12/15/2018		
3.3.422.0	2,451	12/6/2018		Install

### 5.2.6 Keyboard Shortcuts

Some PowerShell ModuleManager functions have keyboard shortcuts which appear in the menu options and button tooltips:



Keyboard shortcuts in menu options



Keyboard shortcuts in ribbon button tooltips

Reyboard Shortcuts	
Help	F1
Repository Search	Ctrl + F
Available Versions	Ctrl + V
Install	Ctrl + I
Refresh Installed	F5
Open Containing Folder	Ctrl + O
Update	Ctrl + U
Update All	Ctrl + Shift + U
Disable	Ctrl + D
Uninstall	Ctrl + R
Minimize Ribbon / Expand Ribbon	Ctrl + F1

Alt

### Keyboard Shortcuts

Access Ribbon Key Shortcuts

# 5.3 Customizing Your Workspace

PowerShell ModuleManager provides options for customizing the program workspace. You can change the color theme, add frequently used functions to the Quick Access Toolbar, and reconfigure the panel layout.

## 5.3.1 Changing the color theme

Color themes let you modify the colors in PowerShell ModuleManager's user interface to suit your preference and work environment.



Skins button

### How to change the color-themed skin

You can change PowerShell ModuleManager's user interface color theme from the **Skins** menu above the Ribbon.

### To change the color-themed skin

• Click the Skins button and select a theme from the menu:



### 5.3.2 Customizing the Quick Access Toolbar

The **Quick Access Toolbar** at the top-left of the program window provides access to your most frequently used tools. This topic explains how to add or remove default buttons, how to add new buttons, and how to show the Quick Access Toolbar above or below the ribbon.

# **Default Buttons**

The default controls on the Quick Access Toolbar provide instant access to view your local machine, refresh all installed modules (**F5**), or change the PowerShell execution policy:



Quick Access Toolbar

🛈 The default options on the Quick Access Toolbar are also available on the File Menu 🕅

## How to add or remove default buttons to the Quick Access Toolbar

### To add or remove default controls

• Click the drop-down icon to the right of the Quick Access Toolbar and select or deselect options:



# How to add new buttons to the Quick Access Toolbar

#### To add a button to the toolbar

• Right-click on a ribbon control > select Add to Quick Access Toolbar:



The selected control is added to the Quick Access Toolbar:



To remove the new button, deselect the control from the drop-down icon to the right of the toolbar:

>> 📃	0 🏶 🛕	÷		
File	Home Tools	1	Local Machine	
G	Copen Root Mo	*	Change Execution Policy	
opuate	Den Containir	4	Uninstall Older Versions	Jate
Remo	te Connections	+	Show Quick Access Toolbar Below the Ribbon	

You can reset the Quick Access Toolbar to the default options from File > Options > Panels > Reset Quick Access Toolbar.

How to show the Quick Access Toolbar below the ribbon

### To show the toolbar below the ribbon

• Click the drop-down icon to the right of the Quick Access Toolbar > then select **Show Quick Access Toolbar Below the Ribbon**:



-OR-

Right-click any ribbon control > select **Show Quick Access Toolbar Below the Ribbon**:



### To show the toolbar above the ribbon

• Click the drop-down icon to the right of the Quick Access Toolbar below the ribbon > then select Show Quick Access Toolbar Above the Ribbon:

<b>&gt;-&gt;</b>				
File Home	Tools Help			
Update	Module Root Module Containing Folder Installed	Uninstall	Enter text to	search
- /s 👟 🛛				
Remote Connec	<ul> <li>✓ Local Mach</li> <li>✓ Refresh Insi</li> </ul>	iine talled		
Desktop-SAPIE	<ul> <li>Change Exe</li> </ul>	ecution Policy		rShell.
SAPIENTester	Show Quick	k Access Toolbar Above t	he Ribbon	age
		Update Available	AzureRM	.Networ

#### -OR-

Right-click any ribbon control > select **Show Quick Access Toolbar Above the Ribbon**:



# How to restore the Quick Access Toolbar default options

### To reset the Quick Access Toolbar

• Select File > Options > Panels > Reset Quick Access Toolbar:

Option	se 🗙	
General Panels	Ribbon Reset Quick Access Toolbar	
	Panel Layout   Reload Previous State Reset to Default State	

### 5.3.3 Panels and Layout

This section explains how to work with  $\underline{\text{panels}}_{22}$ , and provides an overview of the most common tool panel tasks.

### PowerShell ModuleManager - Available panels

The panels available in PowerShell ModuleManager are, by default, all displayed in the program workspace  $12^{12}$ . The **Panels** drop-down list (**Home** ribbon > **Window** section) shows the available panels:



Panels that are *open* in PowerShell ModuleManager have a blue highlight in the Panels dropdown list, which behaves like a toggle; click a panel on the list to open or close the panel (see below for more ways to close a panel).

### How to close and open a panel

By default, all available panels are open when the application starts. There are a number of ways to close and open panels.

### To close a panel

• Click the X on the title bar:



-OR-

• Right-click on the title bar and select Close:



### -OR-

• From the Panels drop-down list, select the panel name to close:



The panel will close, and the panel name on the drop-down list will not be highlighted:



### To open a panel

• From the Panels drop-down list, select the panel name to open:



The panel will open, and the panel name on the drop-down list will be highlighted:

# Reference



# How to pin a panel to the margin

You can "pin" a panel to the margin, which causes the panel to "hide" when you click away from the panel and "reveal" when you mouseover the panel title.

### To pin a panel to the margin

• Click the "pin" tool on the top-right of the panel title bar (or right-click the title bar and select **Auto-Hide**):



The panel will be hidden and will only display when you mouseover the panel title in the margin:



#### To unpin a panel from the margin

• Mouseover the title in the margin to reveal the panel > then click on the "pin" tool in the title bar:



The panel will return to its most recent docked position.

### How to float, size, move, and dock a panel

Panels can be released, or "floated" from their docked position. Floating panels can be moved, sized, or docked.

#### To float a panel

• Right-click on the title bar and select Float:





### -OR-

• Drag the panel title bar and drop it in the program window.

The panel will then "float" in the program window:



### To size a panel

• Click and drag the pointer arrows on the sides and corners of the panel:



Panels can also be **maximized** to the full size of the display, and **restored** to the most recent size by clicking the respective button on the top-right of the title bar:



### To dock a panel

• Right-click on the title bar and select Dock:



The panel is returned to its most recent docked position:



#### To move a panel

• Click and drag a panel title bar to reveal the docking location indicator:



• Drag the panel and then drop it when the desired location is highlighted in the docking indicator. In the example below, the Remote Connections panel is moved to the right of the Local Machine tab:

# Reference

LAPTOP- ×		
Status	Name	- Author
<ul> <li>Update Available</li> </ul>	AWSPowerShell.NetCore	Amazo .com, Inc -
<ul> <li>Up-to-date</li> </ul>	Azure	Microso t Corporation
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microso t Corporation
<ul> <li>Update Available</li> </ul>	AzureRM.Network	Microso t Corporation
<ul> <li>Up-to-date</li> </ul>	AzureRM.profile	Microso t Corporation
<ul> <li>Update Available</li> </ul>	AzureRM.Sal	Microsc t Corporation
<ul> <li>Up-to-date</li> </ul>	Cisco.UCS.Core	Cisco S stems
<ul> <li>Up-to-date</li> </ul>	Format-Pestor	Erwan Quein
<ul> <li>User Module</li> </ul>	Microsoft P Remote Connector	Microsc t
<ul> <li>User Module</li> </ul>	ModuleProj	Mudette Hausmann
<ul> <li>Up-to-date</li> </ul>	ModuleReq Desktop-SAPIENTester	farehar
<ul> <li>Update Available</li> </ul>	PackageMa SAPIENT STR	Microso t Corporation
<ul> <li>Update Available</li> </ul>	Pester	Pester eam
<ul> <li>Up-to-date</li> </ul>	PowerHTMI	Justin Crote
🐖 Update Available	PowerShell	Microso t Corporation
+ Up-to-date	PScribo	Ian Brinton
<ul> <li>Update Available</li> </ul>	PSReadline	Microso t Corporation
<ul> <li>Update Available</li> </ul>	PSScriptAn	Microso t Corporation
User Module	TestExampl	Paulette
A. Done Mashela	Tanthadula	Davidate

The Remote Connections panel is moved to the right of the Local Machine tab:

LAPTOP-	×		* 着	Remote Connections	* ×
Status	Name -	Author			
Update Available	AWSPowerShell.NetCore	Amazon.com, Inc	1	eskton-SADIENTester	
Up-to-date	Azure	Microsoft Corporation	S	APIENTester	
<ul> <li>Up-to-date</li> </ul>	Azure.Storage	Microsoft Corporation			
Update Available	AzureRM.Network	Microsoft Corporation			
Up-to-date	AzureRM.profile	Microsoft Corporation			
Update Available	AzureRM.Sql	Microsoft Corporation			
Up-to-date	Cisco.UCS.Core	Cisco Systems			
Up-to-date	Format-Pester	Erwan Quelin			
User Module	Microsoft.PowerShell.Operat	Microsoft			
User Module	ModuleProject	Paulette Hausmann			
Up-to-date	ModuleRequireLicenseAccept	farehar			
Update Available	PackageManagement	Microsoft Corporation			
Update Available	Pester	Pester Team			
Up-to-date	PowerHTML	Justin Grote			
Update Available	PowerShellGet	Microsoft Corporation			
Up-to-date	PScribo	Iain Brighton			
Update Available	PSReadline	Microsoft Corporation			
• Update Available	PSScriptAnalyzer	Microsoft Corporation			
User Module	TestExampleModuleProj	Paulette			
A Disco Mandala	T HILL BURNESS	P			

# **Grouped Panels**

If you drop a panel in the center docking indicator, the panel will become part of a "group" with the other panel(s) in that location. In the example below, the Remote Connections panel will be grouped with the Log panel:



When panels are grouped:

- Each panel in the group will have a tab.
- Dragging the title bar will move the entire group of panels.
- To release a panel from a group, right-click the panel tab and click Float.



### How to reload or reset the panel layout

A layout defines the position and visibility of the various PowerShell ModuleManager panels. If you need to revert to a previous layout, there are some options available in the Options dialog (Home > Options > Panels > Panel Layout:

III Option	s ×		-
General	Ribbon Reset Quick Access Toolbar		
Panels	Panel Layout		Ń
	Reload Previous State	Reset to Default State	

Options > Panels > Panel Layout

# Panel Layout - Options:

Reload Previous State	Reloads the panels to the same layout pattern they were in the last time you opened PowerShell ModuleManager.
Reset to Default State	Restores the PowerShell ModuleManager panels to the default layout.

To maximize the entire PowerShell ModuleManager program window in your display, double-click the top title bar. Double-click the title bar again to restore the window down to the previous size.

# 5.4 SAPIEN Updates

We are continually updating our software, both to remove bugs and to add and improve product features. We recommend always staying current with the most recent versions to ensure that you are taking advantage of the latest features, functionality, and product stability.

Every SAPIEN product has a built-in update tool—**SAPIEN Updates**—which will check for updates on all current activations and unexpired trial versions of our products. Available product updates are indicated in the SAPIEN Updates tool and also in the <u>Notifications dialog</u> (see below).

# **SAPIEN Notifications**

SAPIEN products provide automatic notifications when there is a software update available, or when your maintenance is about to expire. Notifications are indicated by a 'flag' icon in the top-right of the program window:



### How to view SAPIEN notifications

• Click the notification flag icon above the ribbon to open the Notifications dialog:

Notifications	×
PowerShell ModuleManager 2022 update version 1.2.15 is available.	Close
	Dismiss All

• If a product update is available, click the update notification to open the SAPIEN Updates tool.

Click the X button to dismiss individual notifications or select **Dismiss All**. Dismissed notifications will not be shown again.

## SAPIEN Updates - Tool Overview

The SAPIEN Updates tool indicates when an update is available for any SAPIEN program installed on your computer.

To minimize the impact on your system, the tool does not run during Windows startup or continuously in the system tray.

#### How to access the SAPIEN Updates tool

• On the Help or Tools ribbon > click Check Now or Check For Updates (Updates section).

-OR-

• Click the <u>notification icon</u> above the ribbon > then in the Notifications dialog, click the update notification.

### **SAPIEN Updates Tool**



SAPIEN Updates Tool

#### **SAPIEN Updates - Options**

Check for updates now	Immediately checks to see if additional product updates are available.
View Downloads folder	Displays the Downloads folder in File Explorer.
View update history	Displays the history of all downloaded and in- stalled product updates.
Available	Displays a selectable list of available product updates. Select one or more products to Download or Download and Install.
Download and Install	Downloads and installs the updates for the product(s) selected in the <b>Available updates</b> list.
Download only	Downloads the updates for the product(s) selec- ted in the <b>Available updates</b> list.
Close	Closes the SAPIEN Updates tool.
Notes	Displays a brief synopsis of what was changed, added, or fixed for the products selected in the <b>Available</b> window.
	<b>1</b> The build history for all SAPIEN products is <u>available here</u> .

### **Update On-Demand**

You don't need to wait to be notified when an update is available; you can check for updates at any time. This is particularly useful if you've heard about a new update and want to install it immediately, or if you are ready to start a new project and want to complete all updates before you begin.

### How to check for updates on-demand

- On the Help or Tools ribbon > select Check Now or Check For Updates to open the SAPIEN Updates tool.
  - i These instructions may vary between SAPIEN products.

• In the SAPIEN Updates tool, select Check for updates now:



The latest product updates are displayed in the SAPIEN Updates Available window.

## **Security and Permissions**

Installing updates to programs in a Program Files directory requires the permissions of a member of the Administrators group on the computer. When you click **Download and Install** in the SAPIEN Updates tool, or if you install after downloading, you will be prompted for administrator credentials.

The update tool requires a functioning internet connection and unimpeded access through your internet firewall. For some installations, you might need to create a firewall rule to allow access or make some accommodations.

# 5.5 Appendices

# Appendices for PowerShell ModuleManager Help Manual

Appendix A: Manual and Product Version 174

## 5.5.1 Appendix A: Manual and Product Version

# Appendix A

# Manual and Product Version

This help manual covers the features and functions included in PowerShell ModuleManager version 1.1.3 and earlier. Some features and images in this manual version may not reflect the current product functionality.

### **Blog articles**

For the latest product tips and feature demonstrations, check out the PowerShell ModuleManager articles on the <u>SAPIEN blog</u>.

#### **Release details**

To view a brief description of what was changed, added, or fixed in the most recent PowerShell ModuleManager builds, view the product <u>version history</u>.

#### Need more help?

Please direct your product related questions to the <u>PowerShell ModuleManager support forum</u>, and your scripting questions to the appropriate <u>Scripting Answers forum</u>.

### 5.5.2 Appendix B: Icon License Attribution

## Appendix **B**

# Icon License Attribution

Some of the icons used in this manual were made by <u>Freepik</u> at <u>www.flaticon.com</u> and are licensed under <u>CC BY 3.0</u>: 1

# 6 Frequently Asked Questions

### **SAPIEN - Frequently Asked Questions**

For answers to questions about product licenses, activations, support, and more, view the <u>SAPIEN Fre-</u><u>quently Asked Questions</u>.

### **PowerShell ModuleManager - Frequently Asked Questions**

For answers to common questions about PowerShell ModuleManager, view the frequently asked questions below.

#### What are the PowerShell ModuleManager features?

View the product features on the <u>PowerShell ModuleManager product page</u>.

#### How can I buy PowerShell ModuleManager?

You can buy PowerShell ModuleManager online with all major credit cards. As soon as your transaction completes, you will be able to <u>download and install</u> the program.

### **Online orders:**

https://www.sapien.com/store/powershell-modulemanager

### Worldwide authorized resellers:

https://www.sapien.com/company/resellers

#### Is there a trial version of PowerShell ModuleManager?

Want to try before you buy? You can download a trial version here.

#### How can I get answers to my questions before I buy the software?

For answers to your pre-order questions, check out the <u>SAPIEN Frequently Asked Questions</u> or post in the <u>Trial Software / Pre-sales Technical Questions</u> forum.

#### How do I install PowerShell ModuleManager?

To get started using PowerShell ModuleManager, follow <u>these instructions to download and in-</u><u>stall</u> the program.

#### Does PowerShell ModuleManager need to run with elevated permissions?

PowerShell ModuleManager needs to run with elevated permissions to update modules stored in the Program Files directory.

The following prompt appears when the program is installed or launched: "Do you want to allow

this app to make changes to your device?"

Select Yes.

#### How do I get help troubleshooting installation?

If you encounter problems installing PowerShell ModuleManager, please report them in the <u>In-</u><u>stallation Issues support forum</u>.

To output to a log file use these Installer Log parameters: Installer.exe /exenoui /qn /L\*v . \PMG\_Install.log

#### What version of PowerShell is required?

PowerShell v5.0 is required and is, by default, installed with Windows 10. Depending on demand, in the future, PowerShell ModuleManager may support older PowerShell versions.

#### Are any specific PowerShell modules required?

The PowerShellGet and PackageManagement modules are required. These modules are, by default, installed with Windows 10; we recommend installing the latest versions.

#### Are there any special requirements to install modules from the PowerShell Gallery?

To install modules from the PowerShell Gallery, <u>NuGet</u> must be installed via PowerShell. If NuGet is not already installed, PowerShell ModuleManager will prompt to install NuGet for you:

PowerSh	nell ModuleManager
1	A NuGet based repository is selected, but NuGet does not appear to be installed. Please install NuGet, change the set repository in Options, or register a new repository in Registered Repositories. Would you like to install NuGet?
	Yes No

#### Is an internet connection required to use PowerShell ModuleManager?

An internet connection is required if the PowerShell repository designated in Options is an online source (Options > General > PowerShell > Repository).

#### How do I update to the latest version of PowerShell ModuleManager?

• See the <u>SAPIEN Updates</u> topic in this user manual for software update information.

#### How can I learn more about the latest PowerShell ModuleManager updates?

- Check out the PowerShell ModuleManager articles on the SAPIEN blog.
- View the PowerShell ModuleManager version history.

#### How can I submit a product suggestion or feature request?

Submit your PowerShell ModuleManager suggestions and product enhancement ideas on the <u>Feature Requests</u> page.

#### How can I get support for PowerShell ModuleManager?

See the <u>Getting Help</u> topic in this user manual for support options.