

### 20 minutes faster

Clone virtual machines up to 20 minutes faster than with native tools

### 5X faster

Configure settings across multiple hosts 5X faster than with native tools

### Use Cases:

- Performance monitoring
- Disaster recovery
- VM lifecycle management
- Administrative controls

### Industries:

- Aerospace and Defense
- Automotive
- Banking
- Consumer Products
- Defense and Security
- Engineering and Construction
- Healthcare
- High Tech
- Higher Education and Research
- Insurance
- Life Sciences
- Media
- Oil and Gas
- Professional Services
- Public Sector
- Retail
- Telecommunications
- Travel and Transportation
- Utilities
- Wholesale Distribution

## Control. Manage. Monitor. Recover.

Improve efficiency, availability and administration throughout your Microsoft cloud infrastructure

Large, distributed and multitenant virtual environments require IT solutions that scale across geographies and align with complex administrative models. Finding technologies that meet strict enterprise requirements for access control, VM lifecycle management, performance monitoring, and disaster recovery is a complicated undertaking. The optimal management solution must provide a broad mix of functionality in order to keep IT costs manageable.

### Meet 5nine Manager Datacenter Edition

5nine Manager Datacenter Edition is a Microsoft Hyper-V management, monitoring and availability application that provides advanced administrative control over users, tenants and roles. Users are given a unified view of all the resources they are assigned, and are only able to execute operations according to their role definition.

The solution's intuitive interface not only centralizes host and virtual machine (VM) visibility across sites, it unifies frequently used lifecycle operations like create, migrate, checkpoint and delete. The Datacenter Edition also helps ensure Hyper-V uptime by providing a single source for monitoring VM performance, sending email alerts when performance indicators go beyond a defined threshold, restoring files, VMs and application data from backups, and managing replication across clusters and hosts.

Administrators can also simplify automation scripts and network configurations. The solution displays PowerShell commandlet IDs after every successful operation, and provides management for software defined networking (SDN). Built with large, distributed and multitenant infrastructures in mind, Datacenter provides the perfect blend between functionality and access control.

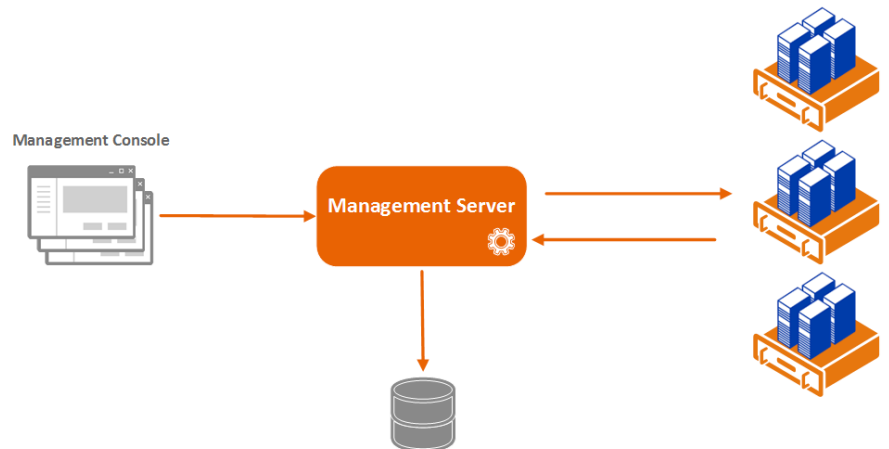


Figure 1: Architecture diagram for 5nine Manager Datacenter Edition.

### Easily Manage Large, Distributed and Multitenant Environments

**Distributed Management Architecture:** Manage large and geographically distributed Microsoft Cloud deployments from a centralized console and set of management servers. The distributed management servers and services architecture ensures enterprise-grade availability and scalability for industries and service providers of all types.

### Lockdown Administrative Access Without Impacting Efficiency

**Multitenant Infrastructure Management:** Define administrative access on a tenant-by-tenant basis and control which resources – like clusters, hosts, virtual machines and virtual network switches – are available for management. Users only have access to the tenants and resources they are assigned, ensuring the virtualized environment meets separation requirements for various administrative models.

**Role-Based Access Control:** Create roles, define what operations they can execute and assign them to 5nine Manager users. Maintain security and compliance policies for separation of duties by enabling or disabling administrators' ability to perform actions on hosts, clusters, virtual machines and virtual network switches.

**Benefits:**

- Easily manage large, distributed and multitenant environments
- Lock down administrative access without impacting efficiency
- Simplify VM Lifecycle Management and increase agility
- Optimize performance and ensure availability
- Quickly recover if disaster were to strike

**Awards**



**Simplify VM Lifecycle Management and Increase Agility**

**Virtual Machine Lifecycle Management:** Empower tenant administrators to centrally create, configure, manage and support virtual machines across all their hosts. There's no need to remote into separate instances because they can execute operations like start, stop, edit, import, create checkpoint, migrate and clone from the convenience of a single console.

**Automatic Server Discovery:** 5nine Manager automatically searches Active Directory for hosts and clusters, which simplifies initial configuration and gets you up and running sooner.

**Software Defined Networking (SDN) Management:** Simplify network and topology definitions by configuring network resources from 5nine Manager's all-encompassing, centralized console. Operations can be performed across multiple layers including virtual switches, network controllers, legacy network adapters and more.

**PowerShell Assist:** Eliminate the needless hours spent looking up PowerShell commands and associated IDs. 5nine Manager displays PowerShell commandlet IDs after each successful operation, enabling you to easily copy and paste the details into your automation scripts.

**Optimize Performance and Ensure Availability**

**Performance Monitoring:** Empower tenant administrators to centrally monitor CPU, Memory, Disk and Network usage across hosts and virtual machines. Tenant administrators can also configure real-time email alerts that notify them or others that a performance metric has risen above or fallen below a defined threshold. Centralized monitoring and alerting eliminates the need to remote into different instances, which provides greater uptime and removes administrative burden.

**Quickly Recover from Disaster or Misconfiguration**

**Replication and Disaster Recovery:** Ensure availability with built-in, easy-to-use functionality for disaster recovery and replication. Backups are encrypted and compressed for secure and simple restoration of data.

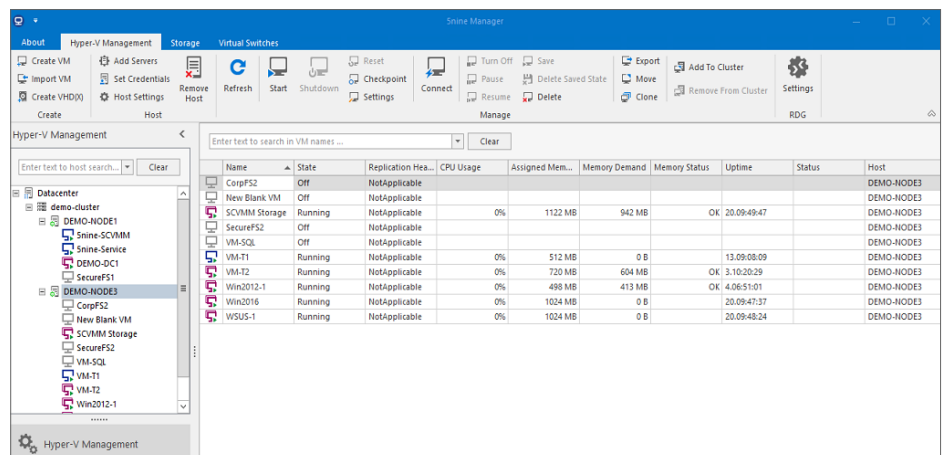


Figure 2: Simplify Microsoft Cloud Management with 5nine Manager Datacenter Edition.

**Try 5nine Manager Datacenter Edition**

Download a free 30-day trial at [www.5nine.com/5nine-manager-datacenter-edition](http://www.5nine.com/5nine-manager-datacenter-edition)

For more information, visit [5nine.com](http://5nine.com)

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