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

5nine Manager Datacenter 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. 5nine Manager Datacenter 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.
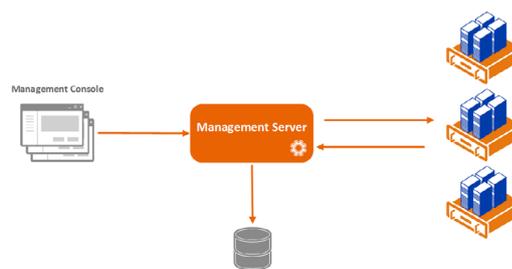

Figure 1: Architecture diagram for 5nine Manager Datacenter

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, 5nine Manager Datacenter provides the perfect blend between functionality and access control.

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.

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 Datacenter automatically searches Active Directory for hosts and clusters and allows you to use browse dialog boxes to add Windows user credentials, which simplifies initial configuration and gets you up and running sooner. 5nine Manager Datacenter also simplifies permission management by allowing you to create domain user groups that

5NINE

5NINE | Mission Control for the Microsoft Cloud

Benefits:

- Simplest management for large, distributed and multitenant environments

- Fastest performance for environments with thousands of VMs

- Lock down administrative access without impacting efficiency

- Increase agility and simplify VM Lifecycle Management

- Achieve 99.999% availability with best-in-class monitoring, alerting and replication engine

Awards

SC 2017 awards
finalist

EDITOR'S CHOICE
VIRTUALIZATION
2016

VirtualizationAdmin.com
READERS' CHOICE
RUNNER UP

BEST OF BREED
DATA CENTER
SECURITY
SOLUTION 2016
★ CDM ★

automatically sync, along with pre-configured permissions, with the corresponding Active Directory group. This means that as soon as a new user is added to the AD domain user group they are automatically assigned the corresponding set of permissions in 5nine Manager Datacenter.

Software Defined Networking (SDN) Deployment & Management: Simplify network and topology definitions by configuring network resources from 5nine Manager Datacenter's all-encompassing, centralized console. Operations, such as create, read, update, and delete, can be performed on SDN objects across multiple layers including virtual switches, network controllers, legacy network adapters and more. Administrators can also enter major SDN parameters and use special SDN deployment scripts to deploy their SDN infrastructure.

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.

Logical View Grouping: Combine multiple related resources into a single, logical tree through categorization and grouping. This allows administrators to more effectively manage and monitor resources in large, distributed data centers.

Storage File Explorer: Access the VM, SIO, Template Library and Backup storage via the Datastore. Remotely create, delete, rename, copy, cut and paste actions with the storage objects.

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 configure real-time email alerts that notify them or others that a performance metric has risen above or fallen below a defined threshold. They can also receive email alerts from Microsoft event logs when virtualization related events occur in their environment. Centralized monitoring and alerting eliminates the need to remote into different instances, which provides greater uptime and removes administrative burden.

Dynamic Optimization: Eliminate bottlenecks and application slowdown while increasing cluster and shared storage group performance by as much as 40%. 5nine Manager Datacenter can balance workloads across Hyper-V hosts by automatically migrating virtual machines to underutilized hosts when CPU Total Run Time or Memory Used reach user-defined thresholds. 5nine Manager Datacenter allows you to perform dynamic optimization on cluster groups to balance load between cluster nodes and shared storage groups to balance load between hosts with shared storage.

Quickly Recover from Disaster or Misconfiguration

Replication and Disaster Recovery: Ensure high availability with built-in, easy-to-use functionality for disaster recovery and replication. Create full and incremental backups, including VMs running on Server Message Block (SMB), and manage backup retention policies from a single, centralized console. Restore fulls VMs or view, download and restore specific files from Hyper-V backups.

Create secure backup copies of key Hyper-V workloads and store them locally, in Azure or at alternate sites via extended replication. All backups are encrypted and compressed for secure and simple restoration of data. Replication failover testing ensures everything will work as expected in the event of a disaster.

Try 5nine Manager Datacenter

For more information, visit https://www.5nine.com/5nine-manager-overview/

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