



Management stack

Azure Pack



Characteristics:

- Provide IaaS and PaaS services to tenants
- Built on System Center
- Azure-like web portal
- Virtual networks can be integrated with Azure
- Gen 1 VM's have the same VM format as Microsoft Azure
- Free product

Components:

- User management
- Network management
- Standalone VM management
 - Create VM's on VMM based templates
- VM Roles
 - Create VM's using Authoring Tool
 - Horizontal scaling ability
 - Advanced Scripting
 - Advanced mechanics for SW installation (Exchange, SQL) using input from the tenant in the UI during creation
- Websites
 - Simple IIS websites
 - CRM / CRS / Trade systems (Drupal, Wordpress, SugarCRM, Opencart)
 - Webjobs (advanced scripts in website environments)
- SQL server
- MySQL
- Service Bus

Tenants can use the Tenant Portal API to control their Virtual Private Datacenter (Azure Powershell)

System Center Suite



- 90 days local
- Long term: Azure (up to 99 years)
- Automation (scripting)



- Connection broker between Azure Pack & VMM (middleware)
- Performance monitoring
- Analyze service reports



- Collect & Analyze Cloud Usage Data for tenants
- Output to Excel or via OLAP cube protocol
- Export to billing tool (or deploy commercial billing tool with the same or more functions)
- Needs *Windows Azure Pack Usage*
- Inventory & Configuration management
- Functional overlap with VMM

Storage Compute and Network stack

W2012 R2 servers

- Hyper-V server
- File Services
 - VMM library
 - Storage Spaces
 - Scale Out File Server
 - Windows Server Based iSCSI targets
- AD / DNS / DHCP
- AD Certificate Services
- IIS
- Server Manager
- Routing and Remote Services (RaRS) – NGRE
- WSUS
- WDS bare metal deployment
- ADFS
- Web application proxy or Application Request Routing (publishing applications on the internet)



NVGRE Gateway

- Build simultaneous multi-tenant site-to-site VPN connections



Azure Stack & Azure Pack

- Azure Stack will be delivered next to Azure Pack (two separate offers)
- Azure Stack is a more Azure consistent and less flexible platform compared to Azure Pack
- Azure Pack has:
 - Generation 2 VMs (no virtual hardware legacy - more resource efficient)
 - VHDX disks up to 64 Tb
 - Console access to VMs
 - Several network adapters
 - Dynamic memory
 - Shielded VMs