

## SMARTEntry Certified Microsoft Hyper V Administrator



### Exam 70-652: Windows Server Virtualization, Configuring

#### Installing Hyper-V

- Select and configure hardware to meet Hyper-V prerequisites. This objective may include but is not limited to: evaluate the existing environment, disk/logical unit number (LUN), memory requirements, correct CPU/BIOS, networking/Network Interface Card (NIC)
- Configure Windows Server 2008 for Hyper-V. This objective may include but is not limited to: identify requirements, deploy Hyper-V with Virtual Machine Manager (VMM), Microsoft Assessment and Planning tool, install on Full, install on Core
- Configure Hyper-V to be highly available. This objective may include but is not limited to: failover clustering, disk structure (RAID, quorum, shared storage), network

#### Configuring and Optimizing Hyper-V

- Manage and optimize the Hyper-V server. This objective may include but is not limited to: VHD (virtual hard disk) location, snapshot location, Systems Center, Virtual Machine Manager (SCVMM), Authorization Manager, release key, performance monitoring of 2k8
- Configure virtual networking. This objective may include but is not limited to: Virtual Network Manager tool, SCVMM, virtual switches, VLAN tagging, external/private/internal switches
- Configure remote administration. This objective may include but is not limited to: install Hyper-V manager on Windows Server 2008 and Windows Vista; WMI, WinRM, firewall settings, RDP

#### Deploying Virtual Machines

- Migrate a computer to Hyper-V. This objective may include but is not limited to: from Virtual Server 2005, from third-party (Acronis), from VPC (virtual PC), from Hyper-V (import/export), Intel to AMD virtual machine state, by using

SCVMM vNext (P2V and V2V), Integration Services/Virtual Machine additions, Assessment and Planning tool

- Create or clone a virtual machine. This objective may include but is not limited to: prepare guest operating system for duplication (sysprep), differencing disks, copying Virtual Hard Drive (VHD), SCVMM vNext, PXE Boot (legacy network adapter), manage the Self Service portal, Windows Deployment Services (WDS)
- Create a virtual disk. This objective may include but is not limited to: pass-through disks, fixed versus dynamic, differencing disks, IDE versus SCSI, Virtual Hard Disk Wizard
- Manage templates, profiles, and the image library by using SCVMM vNext. This objective may include but is not limited to: ISOs, VHDs, deployment from library

### Managing and Monitoring Virtual Machines

- Monitor and optimize virtual machines. This objective may include but is not limited to: Tool: Reliability and performance monitor, Tool: SCVMM, processor, optimize memory, network, disks
- Manage virtual machine settings. This objective may include but is not limited to: DVD/ISO, NIC, Integration Services, state of virtual machines, Hypercall adapter availability requirements, reboot/start options, BIOS, memory, Processor (Windows NT 4.0)
- Manage snapshots and backups. This objective may include but is not limited to: live backups of a VM by using VSS Data Protection Manager (DPM), backup within a virtual machine, snapshots
- Configure a virtual machine for high availability. This objective may include but is not limited to: quick migration, storage redundancy, perform a manual failover, live migration if available, networking redundancy

### **Credit toward certification**

You can write above mentioned papers, and obtain the following certification:

**MCITP: Hyper V Administrator**