















Best Training Provider of the Year Awarded By The Golden Globe Tiger Awards – 2018 Kuala Lampur, Malaysia



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ISO/IEC 27001:2013 Certified Information Security Management System



## **Configure Hyper-V**

Create and configure virtual machine (VM) settings

 Configure dynamic memory, configure smart paging, configure Resource Metering, configure guest integration services, create and configure Generation 1 and 2 virtual machines, configure and use extended session mode, and configure RemoteFX

Create and configure virtual machine storage

 Create VHDs and VHDx, configure differencing drives, modify VHDs, configure pass-through disks, manage checkpoints, implement a virtual Fibre Channel adapter, configure storage Quality of Service

Create and configure virtual networks

 Configure Hyper-V virtual switches, optimise network performance, configure MAC addresses, configure network isolation, configure synthetic and legacy virtual network adapters, configure NIC teaming in virtual machines

# Configure and manage virtual machine high availability

Configure failover clustering with Hyper-V

 Configure shared storage, configure Quorum, configure cluster networking, restore single node or cluster configuration, implement Cluster Aware Updating, upgrade a cluster, configure and optimise clustered shared volumes and configure clusters without network names

Manage failover clustering roles

 Configure role-specific settings, including continuously available shares, configure VM monitoring, configure failover and preference settings and configure guest clustering



#### Manage virtual machine movement

 Perform Live Migration, perform quick migration, perform storage migration, import, export and copy VMs; configure virtual machine network health protection, configure drain on shutdown, manage virtual-to-virtual (V2V) migrations and implement virtual machine migration between clouds

## Implement a server virtualisation infrastructure

#### Implement virtualisation hosts

 Implement a delegation of virtualisation environment (hosts, services and virtual machines), including self-service capabilities; implement multi-host libraries, including equivalent objects; implement host resource optimisation; integrate third-party virtualisation platforms; and deploy Hyper-V hosts to bare metal

#### Implement virtual machines

 Implement highly available VMs; implement guest resource optimisation, including shared VHDx, configure placement rules, create a Virtual Machine Manager template

#### Implement virtualisation networking

Configure Virtual Machine Manager logical networks, including virtual switch
extensions and logical switches; configure IP address and MAC address settings
across multiple Hyper-V hosts, including network virtualisation; configure virtual
network optimisation; plan and implement Windows Server Gateway;
implement VLANs and pVLANs; plan and implement virtual machine networks;
and implement converged networks

#### Implement virtualisation storage

 Configure Hyper-V host clustered storage; configure Hyper-V virtual machine storage, including virtual Fibre Channel, Internet SCSI (iSCSI) and shared VHDx; plan for storage optimisation; and plan and implement storage by using SMB 3.0 file shares



Manage and maintain a server virtualisation infrastructure

Manage dynamic optimisation and resource optimisation, integrate Operations
Manager with System centre Virtual Machine Manager and System centre
Service Manager, update virtual machine images in libraries, implement backup
and recovery of a virtualisation infrastructure by using System centre Data
Protection Manager (DPM)

## Monitor and maintain a server virtualisation infrastructure

Plan and implement a monitoring strategy

 Planning considerations, including monitoring servers using Audit Collection Services (ACS) and System centre Global Service Monitor, performance monitoring, application monitoring, centralised monitoring and centralised reporting; implement and optimise System centre 2012 Operations Manager management packs; and plan for monitoring Active Directory

Plan and implement a business continuity and disaster recovery solution

Plan a backup and recovery strategy; planning considerations, including Active
Directory domain and forest recovery, Hyper-V replica, including using Windows
Azure Hyper-V Recovery Manager, domain controller restore and cloning, and
Active Directory object and container restore using authoritative restore and
Recycle Bin; and plan for and implement backup and recovery by using System
centre DPM

