⬚ EASY (10 Questions)

Q1. Hyper-V is classified as which type of hypervisor?
A. Type-2
B. Hosted
C. Type-1
D. Para-virtualized

Q2. Which Windows role enables Hyper-V?
A. File Server
B. Hyper-V
C. IIS
D. NLB

Q3. Which file format is recommended for Hyper-V virtual disks?
A. VHD
B. VHDX
C. ISO
D. IMG

Q4. Which Hyper-V switch allows VM-to-LAN communication?
A. Private
B. Internal
C. External
D. Loopback

Q5. Which VM generation supports UEFI and Secure Boot?
A. Generation 0
B. Generation 1
C. Generation 2
D. Legacy

Q6. Which disk type provides redundancy?
A. Simple volume
B. Striped volume
C. Mirrored volume
D. Spanned volume

Q7. Which file system is recommended for resilient storage?
A. FAT32
B. exFAT
C. NTFS
D. ReFS

Q8. What is the primary purpose of server virtualization?
A. Increase OS size

B. Hardware consolidation
C. Disk formatting
D. Encryption

Q9. Which Hyper-V feature enables VM rollback?
A. Snapshot
B. Checkpoint
C. Replica
D. Migration

Q10. Which component manages Hyper-V VMs on the host?
A. Kernel
B. VMMS
C. HAL
D. VMBus

☐ MEDIUM (15 Questions)

Q11. Which Hyper-V networking option isolates VMs completely?
A. External
B. Internal
C. Private
D. VLAN

Q12. What is the purpose of Dynamic Memory?
A. Fixed RAM
B. Automatic RAM adjustment
C. Disk caching
D. CPU scheduling

Q13. Which virtual disk type offers best performance?
A. Dynamic
B. Differencing
C. Fixed
D. Snapshot

Q14. Which storage technology pools physical disks logically?
A. RAID
B. SAN
C. Storage Spaces
D. DAS

Q15. Which controller is hot-add capable in Hyper-V?
A. IDE

B. SATA
C. SCSI
D. USB

Q16. Which volume type improves performance but offers no fault tolerance?
A. Mirrored
B. RAID-5
C. Striped
D. Simple

Q17. Which Hyper-V feature provides disaster recovery?
A. Checkpoints
B. Replica
C. NLB
D. Deduplication

Q18. Which scenario best suits data deduplication?
A. Active VM disks
B. Transaction logs
C. File servers
D. Database servers

Q19. Which command installs Hyper-V via PowerShell?
A. Add-WindowsRole Hyper-V
B. Install-WindowsFeature Hyper-V
C. Enable-HyperV
D. Setup-HyperV

Q20. Which virtual networking feature improves throughput?
A. DHCP
B. SR-IOV
C. DNS
D. NAT

Q21. Which storage type is block-based?
A. NAS
B. SAN
C. SMB
D. FTP

Q22. Which Hyper-V feature isolates VM crashes?
A. Virtual switch
B. Application pool
C. VM partitioning
D. Failover cluster

Q23. Which disk partition style supports disks larger than 2 TB?
A. MBR
B. GPT
C. FAT
D. LVM

Q24. Why should checkpoints not be kept long-term?
A. Licensing issues
B. Disk performance impact
C. Security risk
D. Backup failure

Q25. Which file system is NOT supported by deduplication?
A. NTFS
B. ReFS
C. FAT32
D. exFAT

◕ HARD (15 Questions)

Q26. Why is Hyper-V considered more secure than Type-2 hypervisors?
A. Runs on Linux
B. Direct hardware access
C. Smaller memory usage
D. Faster GUI

Q27. Which Hyper-V misconfiguration causes VM boot failure?
A. Wrong switch type
B. Secure Boot mismatch
C. Dynamic memory enabled
D. VLAN tagging

Q28. Why is VHDX preferred in production environments?
A. Smaller size
B. Supports larger disks and resilience
C. Faster PXE boot
D. Better compression

Q29. Which storage failure is mitigated by mirroring?
A. File corruption
B. Disk failure
C. Network outage
D. CPU overload

Q30. Why should deduplication be avoided on running VM disks?
A. Slower CPU
B. Data corruption risk
C. Licensing issue
D. Backup incompatibility

Q31. Which Hyper-V component enables high-speed VM communication?
A. VMMS
B. VMBus
C. Hypervisor scheduler
D. NTFS

Q32. Which enterprise practice improves Hyper-V host security?
A. Install multiple roles
B. Use dedicated hosts
C. Disable updates
D. Use local admin only

Q33. Which Hyper-V limitation requires Failover Clustering for HA?
A. No replication
B. No live migration alone
C. No checkpoints
D. No networking

Q34. Which volume type offers best balance of performance and redundancy?
A. Striped
B. Simple
C. RAID-5
D. Spanned

Q35. Which storage protocol is commonly used in SANs?
A. SMB
B. FTP
C. iSCSI
D. HTTP

Q36. Why is ReFS preferred for VM storage?
A. Compression
B. Automatic repair and integrity streams
C. Smaller footprint
D. Legacy support

Q37. Which Hyper-V resource should never be overcommitted excessively?
A. Disk
B. Network

C. CPU
D. Memory

Q38. Which Hyper-V troubleshooting tool shows live metrics?
A. Event Viewer
B. Hyper-V Manager
C. Performance Monitor
D. Task Scheduler

Q39. Which virtualization risk occurs due to VM sprawl?
A. Better availability
B. Increased management complexity
C. Faster deployments
D. Reduced cost

Q40. Which design best supports enterprise virtualization?
A. Single host with many VMs
B. Hyper-V cluster with shared storage
C. Desktop virtualization only
D. Local disks only