Module 12: Installation, Storage, and Compute with Windows Server

1. What two options are provided in the type of installation window during Windows Server 2016 installation?

- Server Core: A minimal installation without a GUI, recommended for efficiency and security.

-Desktop Experience: A full installation with a GUI, suitable for users who prefer graphical management.

2. How to configure a server step by step?

. Install Windows Server 2016.

. Set up network configuration.

. Assign a static IP address.

. Join the server to a domain.

. Configure roles and features via Server Manager.

. Set up security policies and firewall rules.

. Install necessary updates and patches.

. Create user accounts and assign permissions.

. Configure backups and monitoring.

3. What are the pre-installation tasks?

- Verify hardware compatibility.

- Choose the appropriate Windows Server edition.

- Check disk space and storage requirements.

- Backup existing data if upgrading.

- Prepare installation media (USB/DVD/ISO).

4. What are the post-installation tasks?

- Install drivers and updates.

- Configure security settings.

- Set up server roles and features.

- Activate Windows Server.

- Configure network settings.

- Implement backup and disaster recovery plans.

5. What is the standard upgrade path for Windows Server?

- Windows Server 2012 → Windows Server 2016

- Windows Server 2008 R2 → Windows Server 2016 (via 2012 upgrade first)

- Clean installation for older versions

6. What is the physical structure of AD?

- Domain Controllers (DCs)

- Sites

- Replication links

7. What are the logical components of Active Directory?

- Domains

- Organizational Units (OUs)

- Trees and Forests

- Schema and Global Catalog

8. What is the full form of LDAP?

- Lightweight Directory Access Protocol

9. What is the location of the AD database?

- C:\Windows\NTDS\NTDS.dit

10. What is a child DC?

- A domain controller that belongs to a subdomain within an Active Directory forest.

11. Explain the term forest in AD.

- A collection of one or more AD domains that share a common schema and global catalog.

12. What is Active Directory? Check all that apply.

A Windows-only implementation of a directory server

Microsoft’s implementation of a directory server

An LDAP-compatible directory server

13. When you create an Active Directory domain, what's the name of the default user account?

Administrator

14. AD domain provides which of the following advantages? Check all that apply.

Centralized authentication

More detailed logging

Centralized management with GPOs

15. Minimum hardware requirements for Windows Server 2016:

- Processor: 1.4 GHz 64-bit processor

- RAM: 512 MB (Server Core), 2 GB (Desktop Experience)

- Storage: 32 GB

- Network: Ethernet adapter

16. Editions of Windows Server 2016 and features:

- Datacenter: Full features with unlimited VMs.

- Standard: Supports two VMs, basic features.

- Essentials: Best for small businesses (up to 25 users, 50 devices).

17. Steps for installing Windows Server 2016 using GUI mode:

. Boot from installation media.

. Select language and region.

. Choose "Windows Server (Desktop Experience)."

. Partition the disk and install.

. Set administrator password.

. Log in and configure settings via Server Manager.

18. Steps for installing Windows Server 2016 in Server Core mode:

. Boot from installation media.

. Select "Windows Server (Server Core)."

. Complete the installation.

. Configure networking and domain settings using PowerShell.

. Manage remotely using MMC or RSAT.

19. How to configure network settings during Windows Server 2016 installation?

- Use sconfig in Server Core.

- Set static IP via Control Panel in GUI.

- Configure DNS settings.

20. How to promote a Windows Server to a domain controller?

. Install AD DS role in Server Manager.

. Run "dcpromo" command or use Server Manager.

. Configure domain and replication settings.

. Restart the server.

21. Steps for upgrading to Windows Server 2016:

. Backup your data.

. Run the setup and select "Upgrade."

. Follow on-screen prompts.

. Install updates after completion.

22. What is AD DS and its key components?

- AD DS (Active Directory Domain Services) manages domain authentication.

- Key components: \*\*Schema, Global Catalog, Domains, OUs, Sites\*\*.

23. How to create a new AD user account?

. Open Active Directory Users and Computers\*\*.

. Navigate to the desired OU.

. Right-click and select New → User.

. Enter details and set a password.

. Configure group memberships.

24. Steps for creating and managing GPOs:

. Open Group Policy Management.

. Create a new GPO.

. Link it to an OU or domain.

. Edit settings in Group Policy Editor.

. Apply and verify.

25. What are Organizational Units (OUs)?

- OUs help in structuring users, groups, and devices within a domain.

- They enable delegation of administrative tasks.

26. How to delegate administrative privileges in Active Directory?

1. Open Active Directory Users and Computers.

2. Right-click an OUand select Delegate Control.

3. Choose a user or group.

4. Assign necessary permissions.

5. Finish and verify delegation settings.