

1. What two options are provided during Windows Server 2016 installation?

- **Server Core**
 - **Server with Desktop Experience (GUI)**
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2. Steps to configure server (short):

1. **Set computer name**
 2. **Configure IP address**
 3. **Set time/date**
 4. **Install roles & features**
 5. **Update system**
 6. **Join domain (optional)**
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3. Pre-installation tasks:

- **Check hardware requirements**
 - **Backup data**
 - **Plan IP scheme**
 - **Choose edition & installation type**
 - **Verify compatibility**
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4. Post-installation tasks:

- **Install updates**
 - **Configure network**
 - **Rename server**
 - **Assign static IP**
 - **Install roles (AD DS, DNS, DHCP)**
 - **Enable firewall settings**
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5. Standard upgrade path:

Windows Server 2012/2012 R2 → 2016 (direct upgrade).

6. Physical structure of AD:

- Sites
 - Domain Controllers
 - Subnets
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7. Logical components of AD:

- Domains
 - Trees
 - Forest
 - OUs
 - Objects
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8. Full form of LDAP:

Lightweight Directory Access Protocol

9. Location of AD database:

C:\Windows\NTDS\NTDS.dit

10. What is a child DC?

A domain controller in a child domain under a parent domain.

11. Explain forest in AD:

A forest is the top-level AD structure containing multiple domain trees sharing a common schema and global catalog.

12. What is Active Directory? (Select all that apply)

- A Windows-only implementation of a directory server
 - Microsoft's implementation of a directory server
 - An LDAP-compatible directory server
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13. Default user account after creating AD domain:

- Administrator
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14. Advantages of an AD domain:

- ✓ Centralized authentication
 - ✓ Centralized management with GPOs
 - ✓ More detailed logging
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15. Minimum hardware for Server 2016:

- 1.4 GHz 64-bit CPU
 - 512 MB RAM (Core) / 2 GB (GUI)
 - 32 GB disk space
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16. Editions of Windows Server 2016 (short):

- Datacenter – unlimited virtualization
 - Standard – limited virtualization
 - Essentials – small businesses (up to 25 users)
 - Hyper-V Server – virtualization only
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17. Steps to install Windows Server 2016 (GUI):

1. Boot from DVD/USB
 2. Select language
 3. Choose Desktop Experience
 4. Partition disk
 5. Install
 6. Set admin password
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18. Steps to install Windows Server 2016 in Server Core:

- Same as GUI, but choose Server Core option (no GUI).
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19. Configure network settings during installation:

- Open Network Settings → Ethernet → Properties
 - Assign static IP, subnet, gateway, DNS
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20. Promote server to domain controller:

1. Install AD DS role
 2. Run Promote this server to DC
 3. Create new forest/domain
 4. Set DSRM password
 5. Reboot
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21. Upgrade to Windows Server 2016 steps:

1. Check compatibility
 2. Backup server
 3. Run installer
 4. Choose Upgrade
 5. Select edition
 6. Complete setup
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22. What is AD DS & its components?

Active Directory Domain Services manages users, computers, and authentication.

Components: Domain, Tree, Forest, OU, GC, Schema, Sites

23. Create a new AD user (short):

AD Users & Computers → OU → Right-click → New → User → Set password

24. Creating & managing GPOs (short):

- Open Group Policy Management
 - Create GPO under domain/OU
 - Edit settings
 - Link GPO
 - Update clients using gpupdate /force
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25. What are OUs?

Organizational Units are containers used to group users/computers for easier management & GPO application.

26. Delegating administrative privileges:

- Right-click OU → Delegate Control → Add user → Select tasks → Finish