

**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).

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**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

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**9. Location of AD database:**

C:\Windows\NTDS\NTDS.dit

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**10. What is a child DC?**

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

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**11. Explain forest in AD:**

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

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**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**

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## **23. Create a new AD user (short):**

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

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## **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.**

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## 26. Delegating administrative privileges:

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