**Windows server Assignment**

**Module 12**

**[Installation, Storage, and Compute with Windows Server]**

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

* Windows Server 2016 Installation Options:
* Standard Installation: Comes with a graphical interface.
* Server Core Installation: Minimal version without a GUI.

1. Write the step How to configure server step by step?

* Steps to Configure the Server:
* Set the IP address.
* Give the server a hostname (name).
* Join the server to a domain (if needed).
* Add server roles (e.g., Active Directory, DNS).
* Set up security features.

1. What are the Pre installation tasks?

* Before Installing:
* Check if your hardware meets the requirements.
* Backup your data.
* Plan your network setup (e.g., IPs, domains).

1. What are the Post installation tasks?

* After Installing:
* Adjust firewall settings.
* Install updates.
* Create user accounts and permissions.
* Add roles (like making it a File Server or Domain Controller).

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

* Upgrading from Older Versions:
* Upgrade from servers like Windows Server 2012 to 2016 by running the upgrade tool.

1. What is the Physical structure of AD?

* Physical Structure in Active Directory (AD):
* Domain Controllers (DCs): Servers managing AD data.
* Sites: Group of networks for better data replication.

1. What is the Logical components of Active Directory?

* Logical Structure in Active Directory:
* Domains: Main units in AD.
* Trees and Forests: Group of domains.
* OUs: Used to organize users and groups.
* GPOs: Rules applied to users/computers.

1. What is the Full form Of LDAP?

* **LDAP**: Stands for Lightweight Directory Access Protocol, used for accessing directories like AD.

1. What is the location of the AD database?

* **AD Database**:
* Located at C:\Windows\NTDS\NTDS.dit.

1. What is child DC?

* **Child Domain Controller**: A controller in a smaller domain under a main one.

1. Explain the term forest in AD Assignment: Windows Server

* **AD Forest**: A group of domains sharing resources and settings.

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

● An open-source directory server ● A Windows-only implementation of a directory server ● Microsoft's implementation of a directory server ● An LDAP-compatible directory server

* **Active Directory**:
* A system by Microsoft for managing users, devices, and permissions.

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

● Superuser ● Root ● Username ● Administrator

* Default User Account in AD: Administrator.

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

● Centralized authentication ● More detailed logging ● Centralized management with GPOs ● Better performance

* Centralized authentication.
* Easier management with Group Policies.

1. What are the minimum hardware requirements for installing Windows Server 2016?

* Minimum Hardware for Windows Server 2016:
* Processor: 1.4 GHz 64-bit.
* RAM: 2 GB.
* Storage: 32 GB.

1. Explain the different editions of Windows Server 2016 and their features.

* Essentials, Standard, and Datacenter, with different features for different needs.

1. Walk through the steps of installing Windows Server 2016 using GUI mode.

* Installing Windows Server 2016 (GUI Mode):
* Boot from the installation disk.
* Follow the steps in the setup wizard.
* Set the language, time zone, and create an admin account.

1. Describe the steps for installing Windows Server 2016 in Server Core mode.

* Installing Server Core Mode:
* Same process as GUI, but select "Server Core" during setup.

1. How do you configure network settings during Windows Server 2016 installation?

* Set Network Settings During Setup:
* Use static IP or DHCP for IP configuration

1. Explain the process of promoting a Windows Server to a domain controller.

* Making the Server a Domain Controller:
* Install Active Directory Domain Services (AD DS).
* Use PowerShell or commands to promote the server.

1. Discuss the steps involved in upgrading from a previous version of Windows Server to Windows Server 2016.

* Run the upgrade wizard on the current server version.

1. What is Active Directory Domain Services (AD DS), and what are its key components?

* AD DS Key Features:
* Domain Controllers
* Global Catalog
* Schema
* Group Policies.

1. How do you create a new Active Directory user account in Windows Server ?

* Adding a New User in AD:
* Open AD Users and Computers and create a new account.

1. Explain the process of creating and managing Group Policy Objects (GPOs) in Windows Server 2016 or 2019.

* Group Policies:
* Manage them in Group Policy Management Console (GPMC).

1. What are Organizational Units (OUs) in Active Directory, and how do you use them?

* Organizational Units (OUs):
* Logical folders to group users, computers, and settings.

1. Describe the process of delegating administrative privileges in Active Directory

* Delegating Admin Tasks:
* Assign specific permissions to users for managing AD.