

Windows Server Admin 2016



SYLLABUS



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Introduction to windows server 2016	Introduction to OS and its types	Initial Lab Setup
	Difference between domain and workgroup model	Installation Server 2016 (GUI)
	Comparison of Desktop v/s server	Installation of Server(Core)
	Min hardware Requirement , Editions, Types of Installation	Post installation task
Local Storage	Basic Storage devices, Disk Type Partition Style , File System	Creating Basic , MBR Partition
	Dynamic Disk and Volumes, Introduction to RAID	Creating Dynamic Volumes
Active Directory	Introduction to AD	Deploying DC
	Active Directory Objects	
	Active Directory Components	Managing users
	Logical structure of AD	Managing groups
	Physical structure of AD	Managing OUs
File Server	Introduction to File Server	Share permission
	types of Permissions	NTFS Permission
	Offline File Sharing	Offline file sharing
DHCP	Introduction to DHCP	Deploying DHCP server
	DHCP Components and its working	Configuring and managing DHCP
	Managing and Troubleshooting DHCP	DHCP Failover
	DHCP Failover	
DNS	Introduction to DNS	Implementing DNS server
	DNS Hierarchy	Configuring zones in DNS
	DNS terminologies	configuring Name resolution between DNS zones
	DNS zones	
	DNS records	
	DNS types	configuring advanced DNS settings
	DNS working	
Group policy	Introduction to Group policy	Configure GP for Users and Computers
	Implementing and administering GPOs	Configure security policies
	Group Policy scope and Group policy processing	configure folder redirection
	Implementing administrative templates	configure software installation and
	Folder redirection, Software installation and security policy	Configure software restriction policy
Hyper-V	Overview of Hyper-V	Installing hyper-v
	Types of VMs	Configure storage on hyper-v host
	Types of Virtual HDD	Configure networking on hyper-v host
	Hyper-v Networking	Configure hyper-v in virtual machines
	Managing Hyper-V	Managing hyper-v machines

DHCP relay agent	Overview of DHCP relay agent	Implement and configure DHCP relay agent server
WDS	Introduction to WDS	Implementing WDS server
	Components of WDS	Configuring WDS
WSUS	Introduction to WSUS	Implementing WSUS server
	Components of WSUS	Configuring WSUS
Operation master Role and ADC	Introduction to FSMO	Configuring ADC
	Types of FSMO	Transferring FSMO roles
	Introduction to ADC	Seizing FSMO roles
	Components of ADC	configuring IFM
CDC and RODC	IFM	
	Introduction to CDC	Configuring CDC
	Parent-Child relationship	Configure RoDC
	Introduction to RoDC	
Components of RoDC		
File server resource manager & NIC teaming	Introduction to FSRM	Install FSRM
	File Screening	Configure file screening
	Quota management, Configure Reports	Configure quota management & reports
	Overview NIC teaming	Configure NIC teaming
	NiC teaming terminologies and working	
Distributed File System	Introduction to DFS	install and configure DFS Name space
	DFS name space	install and configure DFS Replication
	DFS replication	
Virtual Private Network	Introduction to VPN	Implementing VPNs
	VPN protocols	Configuring VPN
	Planning VPN	
Network Address Translation	Introduction to NAT	Implementing NAT
	Types of NATing	Configuring NAT
Network Load Balancing	Introduction to NLB	Configuring NLB
	Working of NLB	Managing NLB
	Terminologies of NLB	
Enterprise storage Solutions	Introduction to DAS, NAS, SAN	Install and configure iSCSI
	Comparing Fibre channel, iSCSI & FCoE	
Storage Space and Data	Introduction to storage space	Implementing and managing storage space
	Working of Storage space	
Windows server upgradation	Introduction to server upgradation	Preparing for upgrade
	Pre-requisites to upgrade	Upgrading 2012 os to 2016
Data deduplication	Introduction to Data deduplication	configuring data deduplication
Fail Over Clustering	Introduction to FOC	installing FOC
	FOC components	Creating and configuring new FOC
	FOC supported services	Maintaining FOC
Windows server backup	Introduction to Backup	Configure windows backup and restore
	Types of Backup	
	Stratery for Backup	
ADDS trust	Introduction to trust	

	Types of AD trust	Configuring ADDs trust relationship
AD Sites and Replication	Introduction to Ad site	Cofiguring AD sites and replication
	Importance of AD site replication	
Nano server	Introduction to nano server	Installing and configuring nano server
	Impotance of nano server	
	Pre-requisites for nanoserver	
Advanced Hyper-V	Nested virtualization	Implementing nested virtualization
	Hyper-V Advanced features	Hyper-v live migration
IPAM	Introduction to IPAM	Implementing IPAM
	IPAM components and working	
Windows Powershell	Introduction to powershell	Working with powershell commandlets
	Basic Commandlets	
	Comparision of command prompt and powershell	
Introduction to Dockers and containers	Introduction to Dockers	Demonstration Docker and Container
	Intoduction to Containers	
Managing & monitoring servers	Introduction	Monitoring using performance monitor
	Tools used for monitoring	Resource monitor
		event viewer
		3rd party application monitoring tool
Ticketing system	Introuction to Ticketing system	Demonstration on Ticketing Tool
	Working	
	Ticketing Tools	