
NWA090 : Windows Server 2016 Active Directory Domain Services Administration**หลักการและเหตุผล :**

This course provides the knowledge and skills that are required to deploy and configure in a Windows Server 2016 Active Directory Domain Services (AD DS) in a distributed, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues environment.

วัตถุประสงค์ :

After completing this course, students will be able to

- Overview Active Directory Domain Service
- Describe Active Directory Domain Forest Model
- Describe role of Global Catalog, Domain Controller and DNS
- Design and implement DNS infrastructure of Active Directory
- Plan, install, and migrate Active Directory Domain Service Infrastructure
- Create Single Domain, Child Domain and Tree Root Domain
- Plan and implement Active Directory domain and Trusts
- Design and implement Active Directory sites and replication
- Manage Active Directory Objects such as user, computer, ou and group
- Automate Active Directory Administration
- Plan and configure group policy on Active Directory Domain
- Maintain and Backup to Active Directory Domain Service
- Monitor Active Directory Domain Service

หลักสูตรนี้เหมาะสำหรับ :

This course is intended for Active Directory Technology Specialists, Server and Enterprise Administrators who want to learn how to implement Active Directory Domain Services in Windows Server 2016 environments. Those attending would be interested in learning how to secure domains by using Group Policies, back up, restore, monitor, and troubleshoot configuration to ensure trouble-free operation of Active Directory Domain Services.

ความรู้พื้นฐาน :

- Basic understanding of networking
- Some experience on management in Active Directory
- At least one-year experience operating Windows Servers

เนื้อหาการอบรม :**Module 1: Introduction to Active Directory Domain Services**

- Overview of AD DS
- Structure of AD DS
- Overview of Domain Controllers
- Overview of Services Component on AD DS

Module 2: Configuring Domain Name Services

- Reason for Name Resolution
- Method of Name Resolution
- Overview of DNS
- Primary Zone
- Secondary Zone
- Stub Zone
- Active Directory Integrated Zone
- Forwarder

Module 3: Deploying of Active Directory Domain services

- Plan Server Deployment
- Installing a Writeable Domain Controller
- Installing a Read Only Domain Controller
- Configure Password Replication Policy
- Read Only DNS
- Installing an Additional Domain Controller
- Functional Level on AD DS

Module 4: Implementing AD DS Tree and Forests

- Domain Design Model
- Promote Child Domain
- Promote Tree Root Domain
- Concept Operation Master Roles on Active Directory
- Schema Master
- Domain Naming Master
- RID Master
- PDC Master
- Infrastructure Master
- Transferring Operation Master
- Seizing Operation Master (In case Domain Controller Failure)

Module 5: Implementing Active Directory Domain and Trusts

- Concept of Active Directory Trust
- Prepare and requirement about Trust on Active Directory domain
- Configuring AD DS Trust
- Parent-Child Trust
- Tree Root Trust
- Short cut Trust
- External Trust
- Forest Trust
- Realm Trust
- Create Alternative UPN Suffix

Module 6: Implementing Active Directory Domain Services Sites and Replication

- Overview of AD DS Replication
- Configuring AD DS Sites
- Design Single Site Replication
- Design Multiple Site Replication
- Configure Global Catalog Server
- Using Universal Group Member Caching
- Configuring and Monitoring AD DS Replication

Module 7: Managing Domain User and Computer Objects

- Overview User Account
- User Account Password Option
- Manage User
- Update Group Membership
- Reset User Password
- Setting User Expiration
- Setting Logon Hours
- Assign User Profiles and Home Folder
- User Account Template
- Using Directory Service Command Tools
- dsadd/dsmod/dsget/dsquery/dsrm
- Using Windows PowerShell for AD DS Administration
- Export and Import User

- Csvde/ Ldifde
- Manage Computer
- Disable Computer
- Reset Computer
- Delete Computer
- Pre-stage Computer

Module 8: Managing Group and Organizational Units

- Default Active Directory Group
- Active Directory Special Identities
- User Defined Group
- Group Type\Group Scope
- Group Nesting
- Concept of OU
- Create OU
- Delegate admin's permission on OU

Module 9: Configuring Group Policy Object

- Concept of Group Policy
- Using Group Policy Management Console
- Check Result with RSOP (Resultant Set Of Policy)
- Group Policy Option
- Inherit/Block/Enforce/Loopback
- Backup/Restore Group Policy
- Generate Group Policy Report

Module 10: Maintaining & Monitoring Active Directory

- Process for Backup Active Directory
- Non-Authoritative Restore
- Authoritative Restore
- Concept of Active Directory Recycle Bin
- Using Active Directory Recycle Bin
- Monitoring Active Directory Domain Service

วิทยากร :



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- NCS L.3, CompTIA Security+, ITIL Foundation v.3, CCNA
- MCT, MCITP Enterprise, MCSE +Security +Messaging

จำนวนชั่วโมงในการฝึกอบรม : 5 วัน (30 ชั่วโมง)

ช่วงเวลาฝึกอบรม : 9.00 - 16.00 น.

สถานที่ฝึกอบรม :

สถาบันวิทยาการ สวทช.

เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.)

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วิธีการสำรองที่นั่ง :

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