

Domain Controllers Migration from Windows

Amman (Jordan)

13 - 17 July 2025

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Code: IT28 From: 13 - 17 July 2025 City: Amman (Jordan) Fees: 4000 Pound

Introduction:

This course offers in-depth knowledge and hands-on guidance for migrating domain controllers from Windows Server 2012 to Windows Server 2019 in an offline environment. Participants will learn best practices for a secure and efficient migration of Active Directory, user profiles, DNS and DHCP services, and other essential configurations to the new server environment.

Course Objectives:

By the end of this course, participants will be able to:

- Plan and execute a domain controller migration in an offline environment.
- Migrate critical configurations and data, including Active Directory, DNS, DHCP, and user profiles.
- Update domain and forest functional levels.
- Modify server gateways and safely demote legacy domain controllers.

Course Outline:

Day 1: Preparing for Migration

- Introduction to Migration Processes

Overview of the migration process, from planning to implementation, with a focus on offline migration considerations.

- Assessing the Existing Domain Environment

Conducting an inventory of current domain controllers, identifying dependencies, and reviewing network settings.

- Planning for Domain and Forest Functional Level Upgrades

Key steps for upgrading to 2016 functional levels, covering compatibility requirements and benefits.

- Preparing the New Windows Server 2019 Environment

Essential configuration steps for Windows Server 2019, including initial setup and Active Directory preparation.

- Backup and Recovery Preparations

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Creating system backups and Active Directory snapshots for recovery in case of migration issues.

Day 2: Setting Up and Configuring New Domain Controllers

- Installing Active Directory on Windows Server 2019
Step-by-step setup process and best practices for domain controller installation.
- Configuring Network Settings and IPs for New Domain Controllers
IP and gateway configuration for connectivity in offline scenarios, ensuring consistent network settings.
- Migrating DNS to the New Domain Controller
DNS migration, including exporting records, configuring forwarders, and verifying the new setup.
- Migrating DHCP to the New Domain Controller
Step-by-step transfer of DHCP scopes, reservations, and options to ensure service continuity.
- Testing DNS and DHCP Services on the New Domain Controller
Methods to confirm DNS and DHCP functionality, including client testing and DNS resolution checks.

Day 3: Migrating User Profiles and Roaming Profile Paths

- Overview of User Profile Migration Process
Review of options for transferring user data, focusing on roaming profiles from the old to the new server.
- Migrating Roaming Profiles and Updating Profile Paths
Steps to migrate roaming profiles and update profile paths in Active Directory.
- Ensuring Data Integrity in Profile Migration
Tools and methods to preserve profile data accessibility post-migration.
- Testing Profile Access on the New Server
Testing user access to profiles to verify permissions and settings.
- Troubleshooting Common Profile Migration Issues
Addressing frequent issues with permissions, file paths, and corrupted profiles.

Day 4: Raising Domain and Forest Functional Levels & Transferring FSMO Roles

- Understanding Domain and Forest Functional Levels
Exploring benefits and requirements of upgrading to 2016 functional levels.
- Raising Domain Functional Level to 2016
Step-by-step upgrade process, testing, and validation.
- Raising Forest Functional Level to 2016
Implications of forest-level upgrades, verification, and compatibility.
- Transferring FSMO Roles to New Domain Controllers
Understanding FSMO roles and detailed steps for transferring these roles.
- Verifying FSMO Role Transfers and Troubleshooting Issues
Confirming successful role transfer and troubleshooting tips for common issues.

Day 5: Post-Migration Tasks and Cleanup

- Changing Gateways of All Servers to the New Domain Controller's Gateway
Updating network settings to route traffic through the new domain controller for optimized connectivity.
- Demoting Legacy Domain Controllers
Safe methods for demoting and removing Windows Server 2012 domain controllers post-migration.
- Validating the New Domain Controller Environment
Comprehensive testing of the new environment to ensure all services, including DNS and DHCP, are operational.
- Monitoring and Maintenance Post-Migration
Best practices for ongoing monitoring and maintenance to prevent issues.
- Wrap-Up and Q&A Session
Recap of core concepts, open discussion, and answering participant question



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BLACKBIRD
FOR TRAINING

 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

