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# Lab Outline

The 70-741 Practice Lab will provide you with the necessary platform to gain hands on skills in Microsoft Windows Server 2016.

By completing the lab tasks you will improve your practical skills in implementing DNS and DHCP, implementing IP address management, network connectivity and remote access solutions, implementing core and distributed network solutions and advanced network infrastructure.

These same tasks will help you understand the objectives and competencies required by the Microsoft 70-741 certification exam.

### Outcomes

After completing this Practice Lab, students will be able to:

- Creating DNS Forwarders
- Setting up DNS Root Hints
- Create and Configure Delegated DNS Zones
- Create DNS Policies
- Configure DNS Socket Pool
- Manage DNS Cache Locking
- Create and Configure GlobalNames Zone
- Configure DNS Response Rate Limiting
- Enable DNS Logging
- Configure and Customize DNSSEC
- Create Active Directory Integrated Zones
- Configure DNS Zone Types and Resource Records
- Install and Configure DHCP Server
- Manage DHCP Relay Agent
- Administer DHCP Scopes
- Implement Fault Tolerance in DHCP
- Configure DHCPv6 Server
- Managing an ISATAP Router
- Configure Connectivity between IPv4 and IPv6
- Implement 6TO4 Tunnel Address
- Install and Configure PPTP
- Install and Configure L2TP
- Install and Configure SSTP
- Manage Network Policy and VPN Reconnect
- Configure Network Policy Server
- Manage Routing and Network Address Translation
- Implement IPAM Management Server
- Consolidate File Shares with Distributed File System
- Configure BranchCache for Network File Shares
- Manage Hyper-V Virtual Network
- Enable DHCP Guard
- Configure Network Interface Card Teaming
- Enable SR-IOV
- Implement DirectAccess

ធ Course Code **70-741**  Intermediate

Released Apr 2017

Duration
18 hours



# Prerequisites

No prior hands-on experience is required to use or complete this Practice Lab. However, it would be beneficial to be familiar with the following concepts:

• An understanding of networking technologies

## Who is it For?

The 70-741 certificate is aimed at Windows Network administrators, Windows Server administrators or IT professionals seeking to advance their hands-on skills in advanced networking technologies in Windows Server 2016.

### **Additional Info**

This Practice Lab focuses on the practical aspects of the 70-741 exam objectives. It is therefore advised to refer to your own course materials to gain a deeper understanding of any theoretical aspects of the exam objectives.

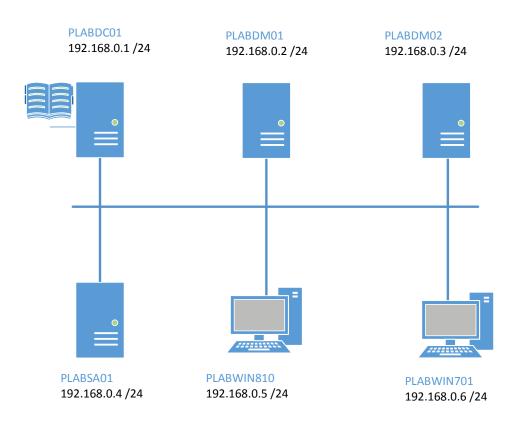
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## Lab Topologies

You will also have access to the following topologies:



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### **Modules and Exercises**

#### Installing and Configuring DNS Servers Part 1

Introduction

Exercise 1 - Installing and Configuring DNS Forwarders Exercise 2 - Managing DNS Root Hints and Delegated Zones

Exercise 3 - Configuring DNS Policies Summary

#### Installing and Configuring DNS Servers Part 2

Introduction

Exercise 1 - Configuring DNS Socket Pool

Exercise 2 - Managing DNS cache locking

Exercise 3 - Creating a GlobalName Zone

Exercise 4 - Enabling Response Rate Limiting in DNS Exercise 5 - Managing DNS Logging

Summary

#### Implementing DNSSEC

Introduction Exercise 1 - Preparing DNS Setup for DNSSEC

Exercise 2 - Configuring DNSSEC

Exercise 3 - Customizing DNSSEC

Summary

#### **Managing DNS Zones and Resource Records**

Introduction

Exercise 1 - Configuring AD Integrated Zones Exercise 2 - Creating DNS Zone Types Exercise 3 - Managing DNS Resource Records Summary

#### Installing and Configuring DHCP Server Part 1

Introduction

Exercise 1 - Installing and Configuring DHCP Server Exercise 2 - Configuring DHCP Relay Agent Summary

#### Installing and Configuring DHCP Server Part 2

Introduction

Exercise 1 - Install VPN Server Exercise 2 - Configure VPN Server System Prerequisites Exercise 3 - Configure SSTP VPN Exercise 4 - Prepare SSTP VPN Client Summary

#### Implementing DHCPv6 Server

Introduction Exercise 1 - Configuring DHCPv6 Server Summary

#### **Managing IPv4 and IPv6 Addresses**

Introduction Exercise 1 - Configure the Network to use an ISATAP Router Exercise 2 - Setup Network Connectivity between IPv4 and IPv6 devices Exercise 3 - Implementing 6TO4 Tunnel Address Summary

#### **Implementing VPN Solutions Part 1**

Introduction Exercise 1 - Configure the Network to use an ISATAP Router Exercise 2 - Setup Network Connectivity between IPv4 and IPv6 devices Exercise 3 - Implementing 6TO4 Tunnel Address Summary

#### **Implementing VPN Solutions Part 2**

Introduction Exercise 1 - Install VPN Server Exercise 2 - Configure VPN Server System Prerequisites Exercise 3 - Configure SSTP VPN Exercise 4 - Prepare SSTP VPN Client Summary

#### **Installing and Configuring VPN Reconnect**

Introduction Exercise 1 - Prepare System Requirements for VPN Reconnect Exercise 2 - Configure Routing Remote Access Server and Network Policy Server Exercise 3 - Configure Windows VPN Client Summary

#### Implementing Network Policy Server

Introduction Exercise 1 - Install Network Policy Server Exercise 2 - Configure VPN Server and Client Exercise 3 - Viewing the NPS Logs Summary





#### **Configuring Routing and Network Address Translation**

Introduction Exercise 1 - Prepare System Requirements for RRAS Exercise 2 - Install RRAS and Enable LAN Routing Exercise 3 - Configure Network Address Translation Summary

#### Install and Configure IPAM

Introduction Exercise 1 - Configure IPAM Exercise 2 - Configure IPAM Management Server Discovery Summary

#### **Configuring Distributed File System**

Introduction Exercise 1 - Install Distributed File System Exercise 2 - Configure DFS Namespace and Replication Exercise 3 - Verify DFS Replica Summary

#### Implementing BranchCache

Introduction Exercise 1 - Prepare System Requirements for BranchCache Exercise 2 - Configure BranchCache Summary

#### **Configuring Advanced Hyper-V Networking Features**

Introduction

Exercise 1 - Managing Hyper-V Virtual Network Exercise 2 - Enable DHCP Guard Exercise 3 - Configure NIC Teaming Exercise 4 - Enable SR-IOV

Summary

#### Implementing DirectAccess

Introduction

Exercise 1 - Configure Authentication Server

- Exercise 2 Prepare DirectAccess Server
- Exercise 3 Configure Network Location Server and IIS
- Exercise 4 Configure DirectAccess Server
- Exercise 5 Configure External Devices
- Exercise 6 Verify DirectAccess Connectivity Summary