



## Day 1: Understanding Microsoft DNS

9:00AM

### Module One - Active Directory and MS DNS Overview

#### Topics:

- Active Directory Overview
- Domain structure
- Forest Structure
- How MS DNS works
- How MS DNS is the same- list
- How MS DNS is different- list
- Active Directory Integrated Zones
- Multi-master
- AD replication

#### Slides:

- Domain Structures
- Domain vs Zone
- Domain versus Forest
- How MS DNS is the same- list
- How MS DNS is different- list
- SOA example for Multi-master

#### Handouts:

- Diagrams of; Domain, Forest, ADI environment
- Lists of MS similarities and differences

10:00 AM

### Module Two - Active Directory Integrated Data and configuration

#### Topic:

- What SRVs are and how they are used by AD
- How SRV records are populated
- GSS-TSIG Keys
- Considerations about DDNS
- How Domain and Forest structure effect GSS-TSIG Keys
- Dynamic versus static data
- Role of MS servers after Cutover (Secondary versus Forwarding)

#### Slides:

- Screen shot of underscore zones - SRV
- GSS-TSIG Key
- Forest / Domain Design Diagram
- Screenshot of Microsoft Zone tree

#### Handouts:

- SRV list and their uses
- GSS-TSIG key slide from Advanced class

Lab: Review provided SOW data and determine what additional Data should be gathered in a precall . Conduct mock precall to gather data, provide customer instructions if needed.



**11:15 AM**

## Module Three - Migrating AD data

### Topic:

- Infoblox Design considerations
- Quick Review from Basic course - How to get the data out of MS
- Data Import Wizard - issues and things to validate
- Infoblox configuration needed for ADI zones
- To clean or not to clean out Dynamic Data
- Data verification and preparation for cutover
- Walk through a DIW import - review advanced option
- Walk through the MS DHCP file syntax

### Slides:

- List of formats of MS files and ISC files
- Screenshot of DIW
- Limitations/Validation checklist

### Handouts:

- Sample Data Files; MS-DHCP, named and zone files, xls with network info)
- Instructions for installing dig on Windows
- Limitation/Validations Checklist

Lab: Given data provided in earlier Modules, Using DOW migrate and validate data.

LUNCH 12:30-1:15

**1:15 PM**

## Module Four - Cutover Considerations

### Topic:

- Making Configuration changes to Microsoft
- Understanding replication and its effects on cutover
- Infoblox Configuration changes
- Capturing DDNS information
- Data verification and validating success
- Rolling back if needed

### Slides:

- MS DNS configuration screenshots
- DIW available Advanced options
- Flow of removing DDNS before import, not removing
- DIW Limitations/Validation checklist

### Handouts:

- Sample Data Files; ms-dhcp, named and zone files, xls with network info)
- Instructions for installing dig on Windows
- Limitation/Validations Checklist

Lab: Migrate and validate DNS and DHCP data from the two DCs (In the e-lab environment) to an Infoblox Grid. Do this with DDNS clean up and without.



2:45 PM

## Module Five - Cutover planning and execution

Topic:

- Methodologies and rationales
- Understanding the roles and responsibilities - who clicks what when
- Working with the Microsoft Admins to prepare
- Factors to consider when writing a cutover plan (DDNS, AD control, replication, DHCP)
- Review a cutover plan with the class and thought process behind it - interactive

Slides:

- Methodologies
- Roles and responsibilities - From a SOW
- Considerations when writing a cutover plan
- Key parts of a cutover plan

Handouts:

- Methodologies overview
- Blank cutover plan
- Sample cutover plan - with SOW, precall checklist and rationale

Lab: Given a SOW, precall checklist and IP information of two DCs, migrate and validate data, write a cutover plan, execute a cutover.

## ***Day 2: Putting it all together – Day 2 will be an entire interactive***

### ***Certification Lab***

**Morning Labs - Students provided SOW (Microsoft cutover DNS/DHCP - WITH Active Directory Support included)**

- Lab - Conduct a Precall
- Lab - Write a design analysis and propose any needed changes
- Lab - Request customer data
- Lab - Data Validation - request additional data, summarize

Lunch

### **Afternoon Labs - Putting the rubber to the Road**

- Lab - Execute a data migration
- Lab - Verify Data and resolve any issues
- Lab - Document a Cutover plan
- Lab - Execute Cutover
- Lab - Troubleshoot and resolve any issues
- Review results with Instructor and discuss any issues



### **Certification Process**

The certification process of this course will be notably more difficult than other Courses in the Infoblox Training portfolio as this certification identifies persons able to execute customer facing cutovers and as such must only approve those truly capable of providing services in a way that provides a good impression of both Infoblox and the Engineers Reseller.

### **Course Sign off-**

Day Two Labs will determine if students are eligible to move on to the written exam to be housed on exam builder or if they need to complete additional migrations in an online lab as described below

### **Additional Online Migration Labs-**

An online Lab will be designed by DeepDive Networking but implemented by Infoblox where a correct migration can be tested by automated scripts that given the provided initial data set, can quantify the success of the cutover based on any service outages caused and data accuracy after the migration.

### **Written Examination:**

A written exam will be the culmination of the certification showing that the Student has the knowledge required to successfully execute all aspects of a basic Infoblox Migration and Cutover.