

The Adaptive DNS Company™



BlueCat Training empowers your team with hands-on training that keeps pace with the design and deployment of your BlueCat solution. BlueCat experts design training courses to address the comprehensive needs of your IT organization. Our training offerings equip your staff with the skills needed to optimize your BlueCat solution and realize its full potential.

The BlueCat Fundamentals eLearning training course focuses on managing the DNS Integrity solution including BlueCat Address Manager and the way DHCP and DNS services are managed. The course assumes that attendees have a general understanding of networking concepts as well as a strong grasp of concepts related to DHCP, DNS and IPv4 addressing. BlueCat Fundamentals eLearning may be viewed on LearningSPACE, BlueCat's Learning Management System. The eLearning format of this course allowsstudents to access content from any locaiton at any time.

INTRODUCTION TO DNS INTEGRITY

INTRODUCTION TO ADDRESS MANAGER

- Understand the way Address Manager manages IPAM data
- Introduction to Redundancy Systems, Role-based Administration, Compliance and Auditing

NAVIGATING THE SYSTEM

- Understand the Components of the Address Manager UI including Tabs and Breadcrumbs
- Use the Search Functionality
- Restore Data
- Use Table Filtering to Filter IPAM Data

UNDERSTANDING BLOCKS AND NETWORKS

 Manage the IPv4 Address Space using Blocks and Networks

MANAGING IPV4 ADDRESSES

- Allocate and Change the State of IP Addresses
- Manage Gateway Addresses

CONFIGURING DHCP IN ADDRESS MANAGER

- Create and Resize DHCP Ranges
- Create DHCP Reserved Addresses
- Assign DHCP Deployment Roles and Deploy DHCP
- Configure DHCP Validation

MANAGING DNS ZONES AND DEPLOYMENT

- Create and Manage DNS Forward and Reverse Zones
- Understand DNS Deployment Roles and Deploy DNS
- Configure DNS Delegation

MANAGING DNS RESOURCE RECORDS

- Create and Manage DNS Resource Records
- Understand DNS Referential Integrity

MANAGING THE IP ADDRESS SPACE

IP MODELING TOOLS

Use Various Tools to Manipulate the IP Address Space

NETWORK TEMPLATES AND IP GROUPS

- Assign Settings to Networks using Network Templates
- Use Network Templates when Partitioning a Block
- Assign Granular Access Rights using IP Groups

IPV6 MANAGEMENT

- Understand IPv6 Addresses and IPv6 Abbreviations
- Understand the Global and Local address spaces
- Create IPv6 Blocks and Networks and Assign IPv6 Addresses

MANAGING DHCP

DHCP DEPLOYMENT OPTIONS

- Configure DHCP Deployment Options
- Understand Deployment Option Inheritance
- Configure DHCP Custom and Raw Options

DHCP ADVANCED FEATURES

- Configure Shared Networks
- Work with Vendor Profiles, Match Classes and MAC Pools

DHCP FAILOVER

- Understand Failover Architecture and States
- Configure DHCP Failover

MANAGING DNS

DNS DEPLOYMENT OPTIONS

- Configure DNS Deployment Options
- Create Access Control Lists

RECURSIVE DNS

- Enable DNS Servers to Accespt Recursive Queries
- Configure Global Forwarding, Stub Zones and Forwarding Zones

MANAGING DNS VIEWS

- Understand the Purpose of DNS Views
- Use Match Clients to Control Access to Views
- Understand the way Queries are Handled in a Multi-View Configuration

ADVANCED DNS TOPICS

- Manage Other DNS Servers
- Use Published Interfaces

ACTIVE DIRECTORY INTEGRATION

- Configure Address Manager to Support DNS for Active Directory
- Manage Multiple Active Directory Zones

DYNAMIC DNS (DDNS)

- Understand how DDNS Works
- Add Security to DDNS

DNS LOGGING

- Use Logging to Interpret Information in a DNS Query
- Enable Query Logging and Logging Channels

SERVER ADMINISTRATION

GENERAL ADMINISTRATION

- Configure Global Settings
- Set Passwords for Operating System Accounts
- Configure Services such as SNMP and NTP

GETTING THE SYSTEM READY

- Connect to the Administration Console (CLI)
- Create Device to Manage Multi-Homed Devices
- Create Device Types to Categorize Devices

USER MANAGEMENT

- Create Local User and Group Accounts
- Configure LDAP Authentication and Import LDAP Groups
- Configure Access Rights

DATA MANAGEMENT

- Work with Database Replication
- Use Database Tools
- Back Up and Restore the Address Manager Database

MONITORING AND TRACKING

- Configure Address Manager Monitoring
- View the Event List and Event Details
- View and Search Transaction History
- Configure and Schedule Reports
- Configure Notification Groups
- Download Address Manager Log Files

OBJECT TAGS AND DEVICES

- Use Object Tags to group and Organize IPAM Data
- Create Devices to Manage Multi-Homed Devices

MANGING BLUECAT DNS AND DHCP SERVERS

- Upgrade BlueCat DNS/DHCP Servers
- Manage BlueCat DNS/DHCP Server Patching
- View and Manage BlueCat DNS/DHCP Server Logs

ADDITIONAL TOPICS

IP RECONCILIATION

- Understand the BlueCat Discovery and IP Reconciliation Model
- Schedule and Run IP Discovery
- Configure an IP Reconciliation Policy
- Reconcile Discovered IP Addresses

CROSS-OVER HIGH AVAILABILITY (XHA)

- Understand XHA
- Configure, Upgrade and Repair an XHA Cluster

DNS SECURITY TOPICS

WHAT IS DNSSEC?

- Understand Cache Poisoning Attacks
- Understand DNSSEC Resource Records
- Understand How Zone Signing Keys and Key Signing Keys are Used to Sign Zone Data
- Understand Zone Signing
- Understand Secure Delegation

CONFIGURING DNSSEC

- Configure Authoritative DNSSEC
- Configure Recursive DNSSE
- Configure Secure Delegation
- Configure Zone Rollover

RESPONSE POLICY ZONES (RPZ)

Understand Response Policies and Response Policy Zones

BLUECAT THREAT PROTECTION

- DNS Phishing Attacks
- Threat Protection and DNS Feeds
- Troubleshoot Threat Protection

DNS INTEGRITY UPDATES

WHAT'S NEW IN ADDRESS MANAGER 8.0

- Network Data Visualization
- VLAN Tagging
- Response Policy Zone Reports
- x.509 Authentication
- Pre-Deployment Validation
- Windows DHCP Failover

WHAT'S NEW IN ADDRESS MANAGER 8.1

- UN/LOCODE Support
- F5 Server Integration
- History Data Management
- Secure Backup Support and more

WHAT'S NEW IN ADDRESS MANAGER 8.2

- Password Policies
- Blocking DNS Option Inheritance
- Server Groups
- DNS-based Authentication of Named Entities
- Secure Backup Support and more

WHAT'S NEW IN ADDRESS MANAGER 8.3

- BlueCat DNS Server Slave Notifications
- SNMP Enhancements for Address Manager Repication and Database Backups
- Support for CAA Resource Records

Get Started Today

Visit https://www.bluecatnetworks.com/training/ or email learn@bluecatnetworks.com to inquire about our course schedules and to obtain more information about our training offerings.

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