Training: Infoblox
NIOS for Service Providers

TRAINING GOALS:

The NIOS for Service Providers, DDI part covers the general configuration, administration and use of the Infoblox NIOS Grid. Learn the fundamentals of the NIOS Grid and how to navigate the Grid Manager UI. Build a working knowledge of operator-level responsibilities in the NIOS Grid DNS services. Get hands-on experience with managing DNS Resource Records and using Extensible Attributes, Smart Folders, Global Search, DNS Views, and CSV Export functionality. Build a working knowledge of administrator-level responsibilities in NIOS including managing NIOS Grid Members and understanding NTP Statistics. Learn the steps to complete the most executed DNS configuration tasks in NIOS. The part of the course about NIOS Security covers the general configuration and administration of the Infoblox NIOS Security Products (DNS Firewall, Threat Insight, and Advanced DNS Protection).

Audience

This course is for service providers team members who will be conducting operator-level or/and administrator-level tasks in NIOS Grid, DNS and NIOS Security Products.

CONSPECT:

NIOS DDI Introduction Workshop (9201)

This workshop delves into the NIOS Grid fundamentals, covering its architecture, communication, and security. Lab exercises provide hands-on practice with the Grid Manager Interface, including service checks and dashboard configurations.

- MODULES
  - NIOS Grid Overview (1001)
  - Using the NIOS Grid Manager UI (1002)
- ASSOCIATED LABS
  - Verifying services are running in NIOS (1500)
  - Verifying NTP configuration in NIOS Grid (1501)
  - Verifying NIOS Grid backup configuration (1502)
  - Locating NIOS disaster recovery candidate (1503)

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- Using NIOS Status Dashboard (1506)

NIOS DDI Grid Deployment Workshop (9261)

Learn to configure a NIOS Grid from factory-default appliances. Learn to perform Grid Master Candidate (GMC) promotion. Learn to replace failed members of the Grid, and to upgrade stand-alone members to High Availability (HA) pairs.

- MODULES
  - Setting up the NIOS Grid (3001)
  - Advanced Member Management in NIOS (3002)
  - Configuring NIOS High Availability (HA) (3003)
- ASSOCIATED LABS
  - Creating a NIOS Grid (3500)
  - Replacing a failed stand-alone member in a NIOS Grid (3502)
  - Upgrading a stand-alone member to HA in NIOS (3503)

NIOS DDI Grid Administrator Workshop (9231)

This workshop covers essential NIOS Grid functionalities including configuring settings, managing backups, interpreting NTP outputs, and scheduling tasks. Through hands-on exercises, you will learn to modify Grid settings, manage access and logs, streamline backups, and effectively use NTP services and support tools within the NIOS environment.

- MODULES
  - Configuring NIOS Grid Settings and Grid Redundancy (2001)
  - Managing NIOS Grid Members (2002)
  - Explaining NTP Statistics in NIOS (2003)
  - Configuring NIOS Scheduled Tasks (2007)
- ASSOCIATED LABS
  - Changing NIOS Grid session timeout (2500)
  - Configuring NIOS GM login banner (2501)
  - Enabling remote console access (SSH) for all NIOS Grid members (2502)
  - Configuring syslog settings in NIOS (2503)
  - Configuring scheduled backups over SCP in NIOS (2504)
  - Adding external NTP servers in NIOS (2506)
  - Enabling NTP services on NIOS members (2507)
  - Generating support bundles in NIOS (2509)

NIOS DDI DNS Service Administrator Workshop (9232)

Learn to create and manage variuos types of DNS zones in NIOS, including authoritative, delegated,

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and forward. Learn to configure DNS anycast for redundant DNS service. Learn to create and manage DNS views to separate DNS data by client sources.

- MODULES
  - Configuring NIOS DNS Services (2009)
  - Configuring NIOS DNS Anycast (2014)
  - Configuring NIOS DNS Views (2015)
- ASSOCIATED LABS
  - Allowing and restricting DNS queries in NIOS (2519)
  - Creating DNS name server groups in NIOS (2520)
  - Configuring Named ACLs in NIOS (2521)
  - Configuring Grid DNS resolvers in NIOS (2531)
  - Configuring DNS recursion in NIOS (2532)
  - Configuring DNS Anycast in NIOS (2536)
  - Configuring DNS default forwarders in NIOS with fallback to root (2552)
  - Creating DNS views in NIOS (2553)

NIOS DDI DNS Zone Administrator Workshop (9233)

Learn to create and configure various types of DNS zones in NIOS, including authoritative, delegated, forward, and reverse-mapping.

- MODULES
  - Configuring NIOS DNS Zones (2023)
- ASSOCIATED LABS
  - Creating authoritative primary zones in NIOS (2522)
  - Creating authoritative secondary zones in NIOS (2523)
  - Creating authoritative subzones in NIOS (2524)
  - Creating DNS delegated zones (delegations) in NIOS (2525)
  - Creating forward zones in NIOS (2526)
  - Creating IPv4 authoritative reverse-mapping zones in NIOS (2527)
  - Creating IPv6 authoritative reverse-mapping zones in NIOS (2528)

NIOS DDI DNS Operations Workshop (9203)

This workshop provides an introduction to NIOS DNS services, including navigating DNS menus, understanding properties inheritance, and configuring resource records. Lab exercises offer hands-on practice with updating DNS objects, managing hosts, handling records in subzones, and navigating multiple DNS views in NIOS.

- MODULES

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- NIOS DNS Service Overview (1006)
- Managing NIOS DNS Resource Records (1007)
- Using NIOS DNS Views (1009)

- ASSOCIATED LABS
  - Updating NIOS DNS objects with Extensible Attributes (EA) (1509)
  - Creating a Host in NIOS (1520)
  - Creating a Host with Next Available IP in NIOS (1521)
  - Creating entries in a sub zone in NIOS (1522)
  - Deleting a DNS entry in NIOS (1523)
  - Restoring a DNS entry in NIOS (1524)
  - Managing resource records with DNS views in NIOS (1529)

NIOS Security DNS Firewall Workshop (9331)

This workshop introduces administrators to a major NIOS security features: DNS Firewall (RPZ). The workshop describing how DNS Firwall (RPZ) works and how to setup the grid for it and how to configure different RPZ types.

- MODULES
  - NIOS DNS Firewall (RPZ) Dashboards and Reporting (1020)
  - Describing NIOS DNS Firewall (2030)
  - Configuring Local RPZ in NIOS (2031)
  - Configuring Threat Defense RPZ feeds in NIOS (2032)
- ASSOCIATED LABS
  - Using NIOS DNS Firewall Monitoring and Reporting (1526)
  - Setting up NIOS DNS Firewall (2541)
  - Configuring local RPZ rules in NIOS (2542)
  - Configuring RPZ feeds in NIOS (2543)
  - Configuring Blocking local RPZ rules in NIOS (2549)
  - Configuring Substitute local RPZ rules in NIOS (2550)

NIOS Security Advanced DNS Protection (ADP) Workshop (9333)

This workshop introduces administrators to a major NIOS security features: Advanced DNS Protection (ADP). The workshop describing how Advanced DNS Protection (ADP) works and how to setup the grid for it.

- MODULES
  - NIOS Advanced Threat Protection (ADP) Dashboards and Reporting (1022)
  - Describing NIOS Advanced DNS Protection (ADP) (2035)

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- Managing NIOS Advanced DNS Protection (ADP) (2036)
- Configuring Advanced DNS Protection (ADP) Rulesets, Rules and Profiles in NIOS (2037)

- ASSOCIATED LABS
  - Using NIOS Advanced DNS Protection (ADP) Monitoring and Reporting (1528)
  - Setting up NIOS for Advanced DNS Protection Lab (2546)
  - Applying Advanced DNS Protection (ADP) Rulesets in NIOS (2547)
  - Applying Advanced DNS Protection (ADP) Profiles in NIOS (2548)

REQUIREMENTS:

Attendees should have a fundamental understanding of networking. If you are new to networking, consider the DDI Associate course for an introduction to DDI and related networking topics.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Infoblox (course completion).

TRAINER:

Authorized Infoblox Instructor

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