

# DDI Fundamentals

## Training Course

**SOLIDserver software version:**

8.0

**Course type:**

Self-paced course

**Duration:**

4 hours

**Audience:**

System and network administrators

**Prerequisites:**

None

**Certification:**

No

## Training Summary

**Overview:**

This course provides an overview of the Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP) and IP Address Management (IPAM).

**Objectives:**

By the end of the course, the students will be able to:

- Understand the role of DNS, DHCP and IPAM in a network
- Have the prerequisite knowledge to work with EfficientIP's DDI and security solutions

# Course Content

## Module 1: DNS Fundamentals

- Principles of DNS name resolution
- How DNS data is handled and organized
- Types of name server
- Key DNS operations
- The BIND engine
- DNS Fundamentals Knowledge Check (20 questions)

## Module 2: DHCP Fundamentals

- The role of DHCP on the network
- Principles of the DHCP service
- Message flow between the DHCP server and clients
- ISC DHCP Server configuration parameters
- ISC DHCP Failover
- Microsoft DHCP
- DHCP Fundamentals Knowledge Check (20 questions)

## Module 3: IPAM Fundamentals

- The role of IPAM
- IPv4 Address Space layout
- Classful IPv4 Private Networks
- CIDR and VLSM concepts
- Advantages of integrating IPAM with DNS and DHCP
- The impact of IPv6 on IPAM
- IPAM Fundamentals Knowledge Check (20 questions)



As one of the world's fastest growing DDI vendors, EfficientIP helps organizations drive business efficiency through agile, secure and reliable network infrastructures. Our unified management framework for DNS-DHCP-IPAM (DDI) and network configurations ensures end-to-end visibility, consistency control and advanced automation. Additionally, our unique 360° DNS security solution protects data confidentiality and application access from anywhere at any time. Companies rely on us to help control the risks and reduce the complexity of challenges they face with modern key IT initiatives such as cloud applications, virtualization, and mobility. Institutions across a variety of industries and government sectors worldwide rely on our offerings to assure business continuity, reduce operating costs and increase the management efficiency of their network and security teams.

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