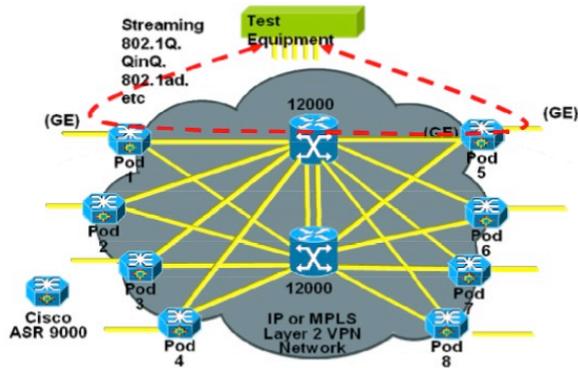


Advanced Services' Cisco ASR 9000 Aggregation Services Router Series Essentials (ASR9k) v1

Length: 5-day Workshop

This instructor-led course introduces you to the features and functions of the Cisco® ASR 9000 Series platforms. Through a combination of lecture and hands-on labs, you will gain an understanding of all major aspects of the platform, including hardware; software; Layer 2 and Layer 3 services; Layer 2 and Layer 3 multicast; operations, administration, and management (OAM); and quality of service (QoS) features.



You will learn to:

- List and describe the major features and benefits of the Cisco ASR 9000 series
- List and describe the major features and benefits of the Cisco IOS® XR Software operating system
- Configure the Cisco ASR 9000 platform, back out of configuration changes, and restore older versions of a configuration
- Install the Cisco IOS XR Software operating system, package information envelopes (PIEs), and software maintenance updates (SMUs)
- Configure Cisco IOS XR Software security features
- Configure routing protocols
- Enable multicast routing
- Configure Multiprotocol Label Switching (MPLS)
- Configure Layer 2 services with resiliency and OAM functions
- Configure Layer 2 multicast features
- Configure Layer 3 services
- Configure QoS
- Understand data flow through the Cisco ASR 9000
- Troubleshoot basic Cisco ASR 9000 hardware and software problems

Recommended for:

This course is designed for technical professionals who need to know how to deploy Cisco ASR 9000 Series routers in their network environment. The primary audience for this course includes:

- System engineers
- Technical support personnel
- Channel partners, resellers

Prerequisites:

- Basic knowledge of router installation and some experience with installation tools
- Routing protocol configuration experience with Border Gateway Protocol (BGP), Intermediate System-to-Intermediate System (IS-IS), and Open Shortest Path First (OSPF)
- Knowledge of Layer 2 IEEE switching and related protocols
- Strong knowledge of MPLS configuration or multicast configuration experience
- Knowledge of Cisco router security implementation, including authentication, authorization, and accounting (AAA) and TACACS

- Experience troubleshooting Cisco routers in a large network environment