

## F5-TRG-BIG-IP-CGNAT F5 CGNAT Workshop

### Overview

This course introduces you to network address translation at service-provider scale in three lessons.

After a brief introduction to BIG-IP Carrier-Grade NAT, lesson one gives you an overview of network address translation concepts. In lesson two you configure BIG-IP CGNAT to use NAT44 to provide basic e-mail and Web connectivity to subscribers while conserving IPv4 public addresses, and in lesson three you learn how to use application layer gateways to overcome a common shortcoming of large-scale network address translation.

### Course Length

2 days

### Audience

This course is meant for network administrators, network engineers, and network operators.

### Prerequisites

Students must complete one of the following F5 prerequisites before attending this course:

- Administering BIG-IP instructor-led course

The following general network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course:

- OSI model encapsulation
- Routing and switching
- Ethernet and ARP
- TCP/IP concepts
- IP addressing and subnetting
- NAT and private IP addressing
- Default gateway
- Network firewalls
- LAN vs. WAN

### Course Outline



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- Viprion System Architecture and Traffic Flow
- Setting up the BIG-IP System
- CGNAT Overview
- CGNAT Features and Terminologies
- Deterministic NAT, DNAT
- Network and Port Address Translation, NAPT
- Logging
- Port Block Allocation, PBA
- Application Layer Gateways
- High Availability



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