

F5 TROUBLESHOOTING BIG-IP

DURATION - 2 DAYS

COURSE OVERVIEW

This course gives networking professionals hands-on knowledge of how to troubleshoot a BIG-IP system using a number of troubleshooting techniques as well as troubleshooting and system tools. This course includes lectures, labs, and discussions.

PREREQUISITES

The following *course-specific* knowledge and experience is suggested before attending this course:

- HTTP, HTTPS, FTP and SSH protocols

WHO SHOULD ATTEND?

This course assumes that you have successfully completed the Administering BIG-IP course, or equivalent, and have hands-on experience working in a production BIG-IP environment for several months. You should have a solid understanding of the environment in which the BIG-IP is deployed. This course is meant for BIG-IP administrators, network engineers, applications engineers, etc., who will be responsible for troubleshooting problems associated with their BIG-IP system.

COURSE OBJECTIVES

- Describe the role of the BIG-IP system as a full proxy device in an application delivery network
- Set up, start/restart/stop, license, and provision the BIG-IP system
- Create a basic network configuration on the BIG-IP system including VLANs and self IPs
- Use the Configuration utility and TMOS Shell (tmsh) to manage BIG-IP resources and use as a resource when troubleshooting
- Create, restore from, and manage BIG-IP archives
- Understand and implement troubleshooting methodology to find and resolve issues
- View resource status, availability, and statistical information and use this information to determine how the BIG-IP system is currently processing traffic
- Use iApps to update BIG-IP configuration
- Perform troubleshooting and problem determination activities including using the iHealth diagnostic tool, researching known issues and solutions on AskF5, submitting a problem ticket to F5 Technical Support, and view traffic flow using tcpdump
- Understand the tools (ping, netstat, tcpdump, ssldump, WireShark, diff, Kdiff3, Fiddler, BIG-IP logs, etc.) available to use to identify BIG-IP and network issues from bottom to top
- List log files available, understand log levels, and use the appropriate files, log levels, and filters for troubleshooting
- Use High Speed Logging (HSL) and SNMP trap implementations to perform troubleshooting and problem determination activities
- Describe the role of iRules in affecting traffic behavior and how to use them to aid with troubleshooting and problem determination

WHAT YOU'LL LEARN

- Configuration Project
- Troubleshooting Methodology
- F5 Support
- Troubleshooting – Bottom to Top
- Troubleshooting Tools
- Using System Logs

