



F5-TRG-BIG-IRULE-CFG Developing iRules for BIG-IP



AUTHORIZED
TRAINING CENTER

Overview

This course provides networking professionals a functional understanding of iRules development. The course builds on the foundation of the Administering BIG-IP course, demonstrating how to logically plan and write iRules to help monitor and manage common tasks involved with processing traffic on the BIG-IP. Course Labs consist of writing, applying and evaluating the effect of iRules on LTM traffic. This hands-on course includes lectures, labs, and discussions.

Course Length

3 days

Course Outline

V11.0


- Setting Up the BIG-IP System
 - Introducing the BIG-IP System
 - Initially Setting Up the BIG-IP System
 - Backing Up and Restoring BIG-IP Configurations
 - Leveraging F5 Support Resources and Tools
 - BIG-IP System Setup Labs
- Basic Elements and Resources
 - iRule Events, Operators and Actions
 - DevCentral
 - iRule Editor
- iRule Elements
 - Programming Best Practices
 - Terminology
 - iRule Components
 - Events
 - iRule HTTP Events Diagram
 - Conditions
- Syntax Troubleshooting
 - Mastering Special Characters and Whitespace
 - Troubleshooting Overview
 - Case Study: iRule Logic Error
 - Using Fiddler
- iRule Optimization
 - Optimization Overview
 - Timing
 - Best Practices Examples

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- Security and iRules
 - Security Overview
 - Preventing Common HTTP Attacks
- Numbers and Strings
 - Working with Numbers
 - Working with Strings
- HTTP Headers and Commands
 - HTTP Headers and Commands Overview
 - HTTP::header Usage Examples
 - Other HTTP Commands
 - Selective Compression
- External File Management: iFiles and Data Groups/Classes
 - Introduction
 - iFiles Overview
 - Data Groups Overview
 - Data Group Processing
- Profiles: Persistence, Stream, and Statistics
 - Persistence Profile
 - Stream Profile
 - Statistics Profile
 - iSTATS
- Advanced Variables
 - "Normal" Variables
 - Arrays
 - Global Variables
 - RULE_INIT
 - Static Variables
 - Session Table
 - SubTables

Audience

This course is intended for network administrators, network engineers, network architects, application developers, security administrators, and security architects responsible for installation, setup, configuration, and administration of BIG-IP LTM Systems. Students attending should be interested in developing iRules to help monitor and manage common tasks involved with processing traffic on BIG-IP.

Prerequisites

Students are required to complete one of the following F5 prerequisites before attending this course:

- Administering BIG-IP instructor-led course
- F5 Certified BIG-IP Administrator

The following web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience:

- Getting Started with BIG-IP web-based training
- Getting Started with BIG-IP Local Traffic Manager (LTM) web-based training

Students should understand:

- TMOS administration
- Network concepts and configuration
- Programming concepts
- Web application delivery