COMPENDIUM CENTRUM EDUKACYJNE

Training: F5
Developing iRules for BIG-IP

TRANING TERMS

2025-10-01 | 3 days | Kraków / Virtual Classroom
2025-11-05 | 3 days | Warszawa / Virtual Classroom

TRAINING GOALS:

This course provides networking professionals a functional understanding of iRules development. The course builds on the foundation of the Administering BIG-IP v11 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.

Audience:
This course is intended for system administrators, network administrators and application developers responsible for the customization of traffic flow through a BIG-IP system.

CONSPECT:

- Setting Up the BIG-IP System
    - Introducing the BIG-IP System
    - Initially Setting Up the BIG-IP System
    - Archiving the BIG-IP Configurations
    - Leveraging F5 Support Resources and Tools
- Getting Started with iRules
    - Customizing Application Delivery with iRules
    - Triggering an iRule
    - Leveraging the DevCentral Ecosystem
    - Using the F5 iRule Editor
    - Assigning and Testing iRules
- Exploring iRule Elements
    - Understanding Events and Event Context
    - Introducing iRule Constructs

- Working with iRule Commands
- Working with User-Defined Variables
- Working with Operators and Data Types
- Working with Control Structures
- Logging from an iRule Using syslog-ng
- Incorporating Best Practices in iRules

- Developing and Troubleshooting iRules
  - Mastering Whitespace and Special Symbols
  - Developing and Troubleshooting Tips
  - Using Fiddler to Test and Troubleshoot iRules

- Optimizing iRules Execution
  - Understanding the Need for Efficiency
  - Measuing iRule Runtime Efficiency
  - Modularizing for Administrative Efficiency
  - Using Procedures to Modularize Code
  - Optimizing Logging
  - Implementing Other Efficiency Best Practices

- Securing Applications with iRules
  - Reviewing BIG-IP Security Features
  - Preventing Common HTTP Attacks

- Working with Numbers and Strings
  - Understanding Number Forms and Notation
  - Working with Strings
    - Parsing Strings
    - Combining Strings
    - iRule String Parsing Functions

- Focusing on HTTP Traffic
  - Reviewing HTTP Headers and Commands
  - Accessing and Manipulating HTTP Headers
  - Parsing the HTTP URI
  - Selectively Compressing HTTP Data

- Working with iFiles and Data Groups
  - Working with iFiles
  - Working with Data Groups
  - Processing Data Groups

- Using iRules with Universal Persistence, Stream, and Statistics Profiles

- Implementing Universal Persistence
- Working with the Stream Profile
- Working with the Statistics Profile
- Using iStats

- Incorporating Advanced Variables
  - Using Advanced Variables
  - Using Static Variables
  - Understanding Global Variables
  - Using the Session Table

- Additional Training and Certification
  - Getting Started Series Web-Based Training
  - F5 Instructor Led Training Curriculum
  - F5 Professional Certification Program

REQUIREMENTS:

Before attending the Troubleshooting, ASM, DNS, APM, AAM, AFM, VIPRION or iRules courses is mandatory:

- to take part in the BIG-IP Admin or LTM course
- or possession of F5-CA or F5-CTS LTM certification
- or pass special assessment test with sore 70% or greater.

To take assessment test:
Step 1: get an account on F5 University https://university.f5.com
Step 2: goto My Training and find Administering BIG-IP Course Equivalency Assessment
Take the test. Pass mark is 70%
Step 3: take a screen shot as proof of results
If this prerequisite is not met, F5 Networks have the right to refuse entry to the class.

Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by F5 Networks (course completion).

TRAINER:

Certified F5 Networks Trainer.

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