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# iRules training for F5 Big-IP LTM: Optimizing network traffic

3 days (21 hours)

## Presentation

Our f5 Big-IP [Local Traffic Manager](#) training course will help you master iRules development. It will teach you the best practices for administering your Big-IP LTM architecture and optimizing your network traffic. iRules is a function of the f5 Big-IP LTM local traffic management system. It allows you not only to select pools according to header data, but also to direct traffic by searching on any type of data. iRules lets you customize your content switching. In this course, you'll learn how to write and schedule iRules to monitor and manage the common tasks involved in processing f5 Big-IP traffic. You'll also learn how to secure your environment and use all types of data generated. This course will be run on the latest version of Big-IP: version [16.1](#).

## Objectives

- Configuring the Big-IP system with iRules
- Writing iRules rules
- Optimize task execution
- Monitor HTTP traffic

## Target audience

- System administrators
- Network administrators
- Application developers

## Prerequisites

- Familiarity with f5 or LTM products

# F5 iRules Big-IP LTM training program

## Big-IP system configuration

- Introduction to Big-IP
- Initial configuration
- Archive configuration
- Resources and tools

## Getting started with iRules

- Application delivery customization
- Triggers
- DevCentral Ecosystem
- Rules editor
- Assignments and tests

## iRules elements

- Understanding events and their context
- iRules Constructs
- Controls
- Variables
- Operators and data types
- Structure control
- Syslog-ng

## Development and troubleshooting

- Whitespace and special symbols
- Troubleshooting tip
- Using Fiddler

## Optimizing execution

- Understanding the need for efficiency
- Measuring efficiency
- Modularize iRules
- Optimizing logging

## Application security

- Big-IP security features
- Protection against HTTPS attacks

## Numbers and strings

- Number forms and notation
- Chain analysis
- Combining chains
- Use iRules to analyze strings

## HTTP traffic

- Headers and controls
- Handling HTTPS headers
- Analyze HTTPS URI
- Compress HTTPS data

## Data groups

- iFiles data
- iFiles data groups
- Data group processing

## Using iRules and persistence

- Persistence
- Profile stream
- Statistics profile
- Using iStats

## Integrating advanced variables

- Using advanced variables
- Using static variables
- Global variables

- Using the session table

## Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.