Developing iRules for BIG-IP v.17.5 Training

Duration: **3 Day**

BILGINC IT Academy
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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 system.

Extensive course labs consist of writing, applying and evaluating the effect of iRules on local traffic.

This hands-on course includes lectures, labs, and discussions.

Prerequisites

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

• Administering BIG-IP instructor-led course

-or-

• Configuring BIG-IP LTM instructor-led course

-or-

• F5 Certified BIG-IP Administrator

The following free web-based training courses, although optional, are very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at F5 University (http://university.f5.com):

• Getting Started with BIG-IP
• Getting Started with BIG-IP Local Traffic Manager (LTM)

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

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

• HTTP protocol
• Any programming language

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Who should attend?

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

What You Will Learn

- Setting up the BIG-IP system
- Getting started with iRules
- Using the iRules Editor
- Leveraging DevCentral resources for iRule development
- Exploring iRule elements, including events, functions, commands, variables, and operators
- Using control structures for conditional branching and looping
- Mastering whitespace, grouping, and special symbols
- Tracing iRule execution and profiling performance using the Rule Profiler
- Measuring iRule efficiency using timing statistics
- Logging from an iRule using syslog-ng and high-speed logging (HSL)
- Optimizing iRules execution, including implementing efficiency best practices
- Modularizing iRules for administrative efficiency, including using procedures
- Securing web applications with iRules, including preventing common HTTP attacks, securing HTTP headers and cookies, and implementing HTTP strict transport security (HSTS)
- Working with strings, including using Tcl parsing commands and iRules parsing functions
- Accessing and manipulating HTTP traffic, including applying selective HTTP compression
- Working with iFiles and data groups
- Using iRules with universal persistence and stream profiles
- Gathering statistics using STATS and ISTATS
- Incorporating advanced variables, including arrays, static variables, and the session table