



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Sie erreichen uns unter**

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# BIG-IP iRule Configuration Training (3 days)

<b>CODE:</b>	<b>LÄNGE:</b>	<b>PREIS:</b>
F5N_BIG-IRULE-CFG	24 Hours (3 Tage)	€3,300.00

## Description

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

## Lernziel

- Describe the role of iRules in customizing application delivery on a BIG-IP system
- Describe best practices for using iRules
- Define event context, and differentiate between client-side and server-side contexts, request and response contexts, and local and remote contexts
- Trigger an iRule for both client-side and server-side request and response events
- Assign multiple iRules to a virtual server and control the order in which duplicate events trigger
- Describe and use a testing methodology for iRule development and troubleshooting
- Use local variables, static variables, lists, arrays, the session table, and data groups to store information needed for iRule execution
- Write iRules that are optimized for runtime and administrative efficiency
- Use control structures to conditionally branch or loop within an iRule
- Log from an iRule using Linux syslog-ng or TMOS high-speed logging (HSL)
- Incorporate coding best practices during iRule development
- Use analyzer tools to capture and view traffic flow on both client-side and server-side contexts
- Collect and use timing statistics to measure iRule runtime efficiency
- Write iRules to help mitigate and defend from some common HTTP attacks
- Differentiate between decimal, octal, hexadecimal, floating-point, and exponential notation
- Parse and manipulate strings using Tcl commands and iRule functions
- Write iRules to access and manipulate HTTP header information
- Write iRules to collect customized statistics
- Implement universal persistence via an iRule
- Modify payload content using an iRule with a stream profile

## Zielgruppe

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

## Voraussetzungen

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

- [Administering BIG-IP](#) (instructor-led course)
- [Configuring BIG-IP LTM](#) (instructor-led course)
- F5 Certified BIG-IP Administrator

The following free web-based training courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at F5 University:

- Getting Started with BIG-IP web-based training

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

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 is suggested before attending this course:

- HTTP protocol
- Any programming language

## Inhalt

- Setting up the BIG-IP system
- Getting started with iRules
- 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
- 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

### Major Course Changes since v13

Developing iRules for BIG-IP v14.0 no longer covers the iRules Editor as it is not compatible with BIG-IP v14.0. Discussion of the Rule Profiler feature has been removed from the main course but can be covered as an add-on topic, if desired.

## Weitere Informationen

- Bitte beachten Sie, dass diese Kurse direkt beim Hersteller stattfinden und Arrow ECS Education nur als Vermittler auftritt.
- Die Verfügbarkeit von freien Plätzen können wir trotz Ihrer Online-Buchung/Bestellung leider nicht gewährleisten.
- Installation und Kursunterlagen sind Englisch.
- Dieser Kurs ist nicht rabatt- und prämiensprogrammfähig!
- Bitte beachten Sie - der original Listenpreis des Herstellers beträgt 2995 USD. Sie haben die Möglichkeit, diesen Kurs in USD zu bestellen und zu bezahlen. Wenn Sie dies wünschen, geben Sie es bitte ausdrücklich im Kommentarfeld des Bestellformulars an.

## Kurstermine

Auf Anfrage. Bitte [kontaktieren Sie uns](#)

## Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.