



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com

Phone: +31 20 582 6109

Automating BIG-IP with Ansible v.1.5

| CODE: | LENGTH: | PRICE: |
|--------------|---------------------|-----------|
| F5N_BIG-AUTO | 12 Hours (1.5 days) | €1,595.00 |

Description

This 2-day course introduces network administrators, operators, and DevOps engineers to the foundational and F5-specific technologies required to automate BIG-IP. Participants will gain exposure to multiple technologies for a variety of use cases and will have hands-on experience that leave them better prepared to automate the onboarding and configuration of BIG-IP.

- Review the Linux Command Line
- Review BIG-IP Application Creation
- Discuss Automation and DevOps Concepts
- Configuring BIG-IP with iControl REST

Course Topics• Configuring BIG-IP programmatically with Ansible

Objectives

- Review Automation and DevOps concepts
- Describe the components of iControl REST calls and how they interact with BIG-IP
- Stand up and configure BIG-IP applications using iControl REST
- Describe the major components of Ansible and how they work together to configure BIG-IP
- Use flow control elements such as conditionals and looping in Ansible Playbooks
- Onboard and configure BIG-IP applications using Ansible

Audience

This course is intended for network administrators and operators and DevOps engineers interested in automating tasks on BIG-IP systems in their public and private Clouds as well as in their datacenter infrastructure.

Prerequisites

- Virtual Servers
- Pools, Pool Members and Nodes
- Pool Monitors

Students should be familiar with and be able to configure basic BIG-IP elements such as:• Basic Virtual Server Profiles
Students should also be familiar with the basics of the Linux command line. In addition, the following general technical knowledge should be well understood:

- Layer 2 Ethernet and ARP networking concepts
- Layer 3 and 4 TCP/IP networking concepts, including IP addressing and subnetting
- Layer 7 HTTP networking concepts
- Linux command line and basic Linux commands
- HTML

- JavaScript or NodeJS
- Python

Finally, "nice-to-have" knowledge includes familiarity with programming and/or scripting languages, such as:• Bash

Programme

- Navigating the Linux File System
- Creating and Deleting Files and Directories
- Copying and Moving Files
- Command Line Auto-Completion and Editing

Chapter 1: Linux Command Line Review• Tools for Analyzing Test Results and Inspecting Log Files

- Understanding Load Balancing Basics
- Configuring Virtual Servers, Pools, Pool Members and Nodes
- Configuring Health Monitors and SSL Profiles

Chapter 2: BIG-IP Application Creation Review • Understanding the Full Proxy Architecture and Source Address Translation

Chapter 3: Automation and DevOps Concepts

- Understanding Infrastructure as Code, NetOps and DevOps
- Differentiating Automation and Orchestration Concepts
- Diving into DevOps Concepts such as Idempotency, Atomicity and Imperative vs Declarative
 - Introducing Basic JavaScript Types
 - Introducing JavaScript Object Notation
 - Discovering an existing BIG-IP Configuration using iControl REST
 - Deploying Apps on BIG-IP using iControl REST
 - Onboarding BIG-IP using iControl REST

Chapter 4: Programming BIG-IP with iControl REST • Working with JSON Programmatically

- Introducing YAML
- Establishing an Ansible Trust Relationship
- Creating an Ansible Playbook
- Exploring the Playbook
- Working with the Inventory File
- Using the Command Module
- Gathering Facts for the Playbook
- Deploying Apps on BIG-IP using Ansible
- Deleting a BIG-IP Application
- Onboarding a BIG-IP system using Ansible
- Deploying BIG-IP HA

Chapter 5: Automating BIG-IP with Ansible • Investigating Ansible Roles

Session Dates

On request. Please [contact us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)