

## Automating BIG-IP with AS3 v.1.7

Cursusduur: 2 Dagen    Cursuscode: F5N\_BIG-AUTO-AS3    Trainingsmethode: Virtual Learning

### Beschrijving:

**English - Please note this course is only available in English.**

**Nederlands - Let op: deze training is alleen in het Engels beschikbaar.**

**Franais - Veuillez noter que ce cours est uniquement disponible en anglais.**

Learn DevOps techniques for the onboarding of and deploying apps to BIG-IP. Start by reviewing the Linux command line and then review basic BIG-IP concepts such as F5 terminology, round robin server pool load balancing, health monitor checks, layer 4 proxying and source address translation both in lecture and in hands-on labs. Next, focus on automation and DevOps concepts such as Infrastructure as Code, the role of orchestration, Source of Truth, atomicity, idempotency and imperative vs. declarative operations and their APIs.

Dive into JSON, the standard scripting notation for DevOps, and investigate programming BIG-IP systems using JSON-based iControl REST. Discover onboarding BIG-IP using iControl REST, both in lecture and hands-on labs.

In both lecture and lab, explore F5's declarative API, AS3, as the application source of truth. Use AS3 to deploy applications to BIG-IP using both curl on the command line and the Postman GUI. Use the F5 declarative onboarding API, DO, for managing the entire onboarding process.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

### Doelgroep:

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 data center infrastructures.

### Vereiste kennis en vaardigheden:

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:

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

General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.

Students should be familiar with and be able to configure basic BIG-IP elements such as virtual servers, pools, pool members, and nodes, pool monitors, and basic virtual server profiles. In addition, students should be familiar with the basics of the Linux command line, and have solid understanding of Layer 2 Ethernet and ARP networking, Layer 3 and 4 TCP/IP networking, including IP addressing and subnetting, Layer 7 HTTP networking, and HTML .

Finally, nice-to-have knowledge includes familiarity with programming and/or scripting languages, such as JavaScript or NodeJS, Python, or Bash.

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## Cursusinhoud:

### Linux Command Line Review

- Navigating the Linux File System
- Creating and Deleting Files and Directories
- Copying and Moving Files
- Command Line Auto-Completion and Editing
- Tools for Analyzing Test Results and Inspecting Log Files

### BIG-IP Application Creation Review

- Understanding Load Balancing Basics
- Configuring Virtual Servers, Pools, Pool Members and Nodes
- Configuring Health Monitors and SSL Profiles
- Understanding the Full Proxy Architecture and Source Address Translation

### 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

### Programming BIG-IP with iControl REST

- 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 with iControl REST

- Onboarding BIG-IP using iControl REST

- Working with JSON Programmatically

### Automating BIG-IP with AS3

- Introducing BIG-IP Applications Services Extension 3
- Creating BIG-IP Applications using AS3 with Curl
- Introducing Postman and Postman Tests
- Creating BIG-IP Applications using AS3 with Postman
- Using Newman and the Linux CLI to Create BIG-IP Applications with AS3

### Onboarding BIG-IP with DO

- Introducing Declarative Onboarding for BIG-IP
- Remotely Installing the Declarative Onboarding iApp LX
- Onboarding BIG-IP Declaratively

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## Extra informatie:

Delegates will be provided with official F5 e-kit courseware approximately 1 week prior to the start of the course.

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## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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[www.globalknowledge.com/nl-nl/](http://www.globalknowledge.com/nl-nl/)

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