



## TRAINING OFFERING

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# Automating BIG-IP with Ansible v.1.7

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
F5N_BIG-AUTO	2 days	£1,395.00

## 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.

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

## Course Topics

## 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
  - Basic Virtual Server Profiles
- Students should be familiar with and be able to configure basic BIG-IP elements such as:
- 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
- Students should also be familiar with the basics of the Linux command line. In addition, the following general technical knowledge should be well understood:
- JavaScript or NodeJS
  - Python
  - Bash
- Finally, "nice-to-have" knowledge includes familiarity with programming and/or scripting languages, such as:

## 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

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
24 Jan 2022	London - Dowgate Hill	GMT	English	Classroom		£1,395.00
24 Jan 2022	Virtual Classroom	GMT	English	Instructor Led Online		£1,395.00
11 Apr 2022	London - Dowgate Hill	BST	English	Classroom		£1,395.00
11 Apr 2022	Virtual Classroom	BST	English	Instructor Led Online		£1,395.00
18 Jul 2022	London - Dowgate Hill	BST	English	Classroom		£1,395.00
18 Jul 2022	Virtual Classroom	BST	English	Instructor Led Online		£1,395.00
14 Nov 2022	London - Dowgate Hill	GMT	English	Classroom		£1,395.00
14 Nov 2022	Virtual Classroom	GMT	English	Instructor Led Online		£1,395.00

## Additional Information

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