

# Advanced Data Center Automation Using Juniper Apstra (ADCAJA)

ID ADCAJA Price US \$ 3,000.—(excl. VAT) Duration 3 days

## Who should attend

- Networking architects and operators, system engineers, and DevOps and IT professionals
- Individuals responsible for configuring, monitoring, and troubleshooting modern spine-and-leaf data centers of any size leveraging any networking vendor hardware or operating system

## Prerequisites

- Strong background in network design and operations
- Understanding of Clos IP fabric
- Overlay and underlay routing designs
- Basic automation design and workflows
- Understanding of network device configuration through the CLI
- Knowledge of BGP
- Completion of the [Data Center Automation using Juniper Apstra \(APSTRA\)](#) course

## Course Objectives

- Describe the basic REST API functionality.
- Describe the functions of the Apstra-CLI utility.
- Describe the Apstra provider for Terraform.
- Manage resource pools with Terraform.
- Manage devices with Terraform.
- Create designs with Terraform.
- Create a blueprint using Terraform.
- Demonstrate how to scale blueprints with Terraform.
- Describe how to integrate Apstra with an external IP Address Management (IPAM) system.

## Course Content

### Introduction to the REST API

- Describe the basic REST API functionality

Lab 1: Using the REST API

### Using the Apstra-CLI Utility

- Describe the functions of the Apstra-CLI utility

Lab 2: Using the Apstra-CLI Utility

### Introduction to Terraform

- Perform the initialization of Terraform and the Apstra provider
- Create a Terraform resource using the Apstra provider

### Creating Apstra Resources with Terraform

- Create resource pools with Terraform
- Explain additional Terraform features

Lab 3: Creating Apstra Resources with Terraform

### Managing Devices with Terraform

- Install device agents with Terraform
- Explain additional Terraform features

Lab 4: Managing Devices with Terraform

### Creating Designs with Terraform

- Create rack types
- Create templates

Lab 5: Creating Designs with Terraform

### Creating Blueprints with Terraform

- Create and build a blueprint
- Describe how to add a routing zone and an external router to a blueprint
- Describe how to add virtual networks to a blueprint

Lab 6: Creating an Apstra Blueprint with Terraform

### Scaling Blueprints with Terraform

- Demonstrate how to scale out a blueprint with Terraform

Lab 7: Scaling Blueprints with Terraform

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## Integration with External IPAM

- Describe how to use Terraform to integrate Apstra with an external IPAM

Lab 8: Integrating Apstra with an External IPAM

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## Training Centres worldwide



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