+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

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Sign up

Hashicorp Packer Training

2 days (14 hours)

Presentation

Dive into the heart of Image Automation with Hashicorp Packer and master the essential skills to create consistent and secure system images. During our Hashicorp Packer training course, we'll dive into the details of this cutting-edge tool, exploring its key features and best practices for automating the image creation process. You'll discover how to structure your configurations to generate ready-to-deploy system images, while strengthening the security of your cloud infrastructures. We'll take an in-depth look at all aspects of Hashicorp Packer, from initial configuration to integration in CI/CD pipelines and cross-platform image creation. At the end of this Hashicorp Packer training course, you'll be armed with solid expertise in image automation and ready to optimize the management of your cloud infrastructures. As with all our training courses, this Hashicorp Packer course will feature the latest version of the tool, Packer 1.9.

Objectives

- Install and configure Packer
- Master the basic functions for creating system images
- Explore advanced features for more complex images
- Integrate Packer seamlessly with the AWS ecosystem

Target audience

- Infrastructure engineers
- System & network administrators
- DevOps

Prerequisites

- Scripting skills (Bash or PowerShell)
- Basic knowledge of AWS

Hardware requirements

- Administrator to install Packer locally
- AWS account (free account available)
- A Linux command-line terminal (Git, Bash, or WSL2 from Windows)
- A recent web browser (Chrome)

Our Hashicorp Packer training program

Note: Practical work will be carried out on AWS, so it's important to have an AWS account accessible during the course.

Introduction to HashiCorp Packer

- Introduction to HashiCorp Packer
  - The importance of image automation
- Benefits of using Packer
- Common Packer scenarios
- Installing Packer on different platforms
- Initial Packer configuration
- Creating Vagrant boxes

Fundamental concepts

- Writing Packer HCL vs JSON templates
- Understanding Packer builders
- Different types of builders available
- Configuring image sources
- Using provisioners to customize images
- Managing variables and configuration files
- Using environment variables

Creating images with Packer

- Image customization with scripts
- Using provisioners to automate configuration
- Use of post-processors
- Validating generated images
- Debugging configurations

Advanced build strategies

- Cross-platform image creation
- Data sources
- Managing complex variables and default values
- Use of builders' templates
- Creating images from scratch
- Caching strategies to accelerate builds
- Use of Amazon Machine Images (AMIs) in public clouds

Integration and deployment

- Debugging & troubleshooting
- Packer integration in CI/CD pipelines
- Automating builds with triggers
- Quick brief on integration with cloud platforms (AWS, Azure, GCP)
- Image update and lifecycle management
- Securing generated images
- Deploy images created with Packer
- Scalability and image version management

Best practices and tips

- Good security practices when using Packer
- Managing secrets and sensitive information
- Monitoring and logging builds
- Handling common errors and performance problems
- Maintaining and cleaning up obsolete images

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new, advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format

to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.

Training organization registered under number 11 75 54743 75. This registration does not constitute government approval.
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