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# DOCKER ESSENTIAL TRAINING

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Level - Essential

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## TRAINING AGENDA

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### DAY 1

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#### Introduction to Configuration Management

- Why automation & configuration management are critical
- Why Puppet? (comparison with Ansible, Chef, Salt)
- Puppet Open Source vs Puppet Enterprise

#### Puppet Architecture & Core Concepts

- Puppet Server (Master) and Puppet Agent workflow
- Catalog compilation process
- PuppetDB overview (intro only)
- Puppet run lifecycle

#### Getting Started with Puppet Enterprise

- Puppet Enterprise 2025 overview & release highlights
- Preparing infrastructure (monolithic setup)
- Installing Puppet Server
- Installing Puppet Agent (Linux/Windows)
- Accessing the Puppet Enterprise console

## Crash Demo

- Setting up Puppet Master, Puppet Agent, and running first catalog
- Navigating the Puppet Enterprise console

## Working with Facter

- Introduction to facts & their role in configuration management
- Viewing built-in facts
- Adding simple custom facts

## DAY 2

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### Puppet Language Basics

- Puppet DSL overview
- Working with resources (file, package, service, user, group, exec, notify)
- Variables & ordering basics
- Classes (introductory level)
- Simple templates (EPP)

### Hiera Basics

- What is Hiera?
- Configuring hiera.yaml (intro level)
- Simple key-value data lookup

### Working with Modules

- What modules are & why they matter
- Module structure basics
- Using Puppet Forge modules
- Quick intro to Puppet Development Kit (PDK)

### Essential Administration in Puppet Enterprise

- Node management basics in the console

- Classifying nodes (intro level)
- Managing access (RBAC intro)
- Running Puppet on demand (orchestrator basics)

## SSL & Certificates (Essential View)

- How Puppet uses certificates
- Simple certificate signing workflow
- Autosigning basics

## Troubleshooting (Beginner)

- Reading Puppet logs
- Debugging a failed Puppet run (simple demo)