

FANDSKILL Behavioral Skills for Corporate

FANDS-PRO Finishing & Technical Skills for Collegias

DevOps

Total Duration:

5 days

Audience:

This workshop is intended for developers who need to understand DevOps basic along with the tools used.

Course Objectives:

At the end of the course, participants will have knowledge of

- What is DevOps
- Tools used for DevOps
- Container Managed

Pre-requisites:

- Networking Basics
- Understanding of Web Application Development

Course Contents:

Day 1 –

Monoliths to Micro Services What is DevOps? History of DevOps Dev and Ops DevOps definitions DevOps and Software Development Life Cycle DevOps main objectives Infrastructure As A Code IaaS Overview Paas Overview DevOps on the Cloud Tools (Jenkins, Chef, Docker, Vagrant and so on.) Continuous Testing and Integration Continuous Release and Deployment Continuous Application Monitoring

Day 2 – Gits And Jenkins

Git Basics Getting Started With Git GitHub and Remotes Branching Merging And Rebasing in GIT

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Jenkins Basics Getting Jenkins Installing Command line Options Creating a simple Job

Understanding Jenkins Plugins

Day 3 –

Puppet

Why Puppet? Puppet Fundamentals Language Fundamentals Working with Modules and classes Working with Files and Template

Chef

Covers Introduction Building the Cook Book Node Object & Search Data-bags Chef environment Roles

Deploying Nodes in Production and using the Open Source Chef Server

Ansible

Covers Introduction Setup & Configuration Ansible Playbooks 37 Ansible Modules Different Roles and Command Line usage

Day 4 – Docker

Understand the architecture

What can I use Docker for?

What are the major Docker components?

What is Docker's architecture?

The Docker daemon

The Docker client

Inside Docker

How does a Docker image work?

How does a Docker registry work?

How does a container work?

What happens when you run a container?



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The underlying technology Namespaces Control groups Union file systems Container format Installing Docker Installation from binaries on Linux on Windows Running a Docker Container From the Docker Quickstart Terminal Using Docker from Windows Command Line Prompt (cmd.exe)

> Using Docker from PowerShell Container port redirection Login with PUTTY instead of using the CMD

Getting started with Docker Hub Dockerizing applications: A "Hello world" Working with containers Working with Docker images Linking containers together Managing data in containers Working with Docker Hub

Day 5 -

Overview of Docker Compose Installation and set-up Create a Docker image Define services Build and run your app with Compose

Work with development container Clean your host of Docker artifacts Build an image Start a container and run a test Restart a container with your source

Work with YML image build

dockerfile command



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extra_hosts ports links/external_links

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