

About FutureTech Era

FutureTech Era is an intelligent Automation education platform on its mission to automate intelligence , offers unmatched customer experience, service and support in intelligent Automation for every IT Professional.

FutureTech Era has become one of the top RPA Companies providing RPA consulting services worldwide. We deliver top trending technologies industrial training on such as RPA, UiPath , Power Automate , Automation Anywhere, Python ,Devops Aws and related AI technologies like Hyper Science, Azure Cognitive Services, Google cloud AI and more.

AWS Certified Devops Training Overview

AWS certified DevOps engineer training is aligned with the AWS Certified DevOps Engineer –Professional course, which is structured around the 6 domains outlined in the AWS exam blueprint.

This course will cover the core concepts for each domain, including:

- Domain 1: SDLC Automation
- Domain 2: Configuration Management and Infrastructure as Code
- Domain 3: Monitoring and Logging
- Domain 4: Policies and Standards
- Domain 5: Incident and Event Response
- Domain 6: High Availability, Fault Tolerance, and Disaster Recovery

Why Learn Devops With AWS?

DevOps is a software development approach which involves continuous development, continuous integration, continuous testing, continuous deployment and continuous monitoring of software throughout its life cycle.

On the other hand, AWS is leading the pack in terms of Cloud Computing which provides a bunch of flexible services to reliably and rapidly, build and deliver products. So, DevOps with AWS is a potent combination to automate manual tasks, help teams manage complex environments at scale, and enable organizations to better serve their customers and compete more effectively in the market.

Who should Learn Devops With AWS?

The following professionals can go for this course;-

- Cloud Professional
- System Administrator
- Software Professional
- Non-Technical Person
- Technical Architects
- Project Manager
- Any graduate fresher

Objectives of the Course

Learning Objectives: In this module, you will be introduced to important aspects of DevOps and Amazon Web Services. Also, you will get to know about the necessary security concepts required to manage your account and data on the AWS platform.

After completing this course, you will be able to:

- Use the principal concepts and practices behind the DevOps methodology
- Design and implement an infrastructure on AWS that supports one or more DevOps development projects

- Use AWS CloudFormation and AWS OpsWorks to deploy the infrastructure necessary to create

What are the Pre-Requisites for this Course?

We recommend that attendees of this course have the following prerequisites:

- Working knowledge of DevOps and
- Amazon Web Services Familiarity with AWS Development or AWS System Administration
- Working knowledge of one or more high-level programming languages, such as C#, Java, PHP, Ruby, or Python
- Intermediate knowledge of administering Linux or Windows systems at the command-line level
- Working experience with AWS using both the AWS Management Console and the AWS Command Line Interface (AWS CLI)

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Course Duration

40+ days

Core AWS Certified Devops Course Curriculum

Introduction

- What is AWS Devops
- History
- Features of Devops
- AWS Introduction
- Devops & AWS Component
- Advantage of AWS Devops
- Benefits of AWS

Managing Source Code Git and Git hub

- Overview of version Control Systems
- Central vs distributed control system
- Introduction to git
- Git file workflow
- Important Git commands
- Branching and merge ring , stashing, Reverting and Resetting
- Introduction to Github

Understanding and using build tools

- Overview of various build tools
- What is Maven
- Maven Plugins

- Maven Archetypes
- Project object Model(POM)
- Source Control Integration

Containerization basic and using build tools

- What and Why of Containers
- Difference between VMs and Containers
- Docker Architecture and components
- Image Distribution using Docker Hub
- Working with containers and Docker Hub

Containerization Integration using Jenkins

- Overview of Continuous Integration
- Overview of Jenkins
- Jenkins Architecture
- Installing and configuring Jenkins
- Jenkins Management
- Jenkins Build Pipeline

Continuous Testing

- Overview of Continuous Testing
- Software Testing Life Cycle
- Different types of Testing
- Test -Driven Development Approach using Junit
- Testing Web Application using Selenium

Docker Commands and Use Cases

- Docker File
- Docker Compose

- Docker Networking
- Docker Swarm

Introduction to Kubernetes

- Difference between Docker Swarm and Kubernetes
- Kubernetes Architecture
- Installing Kubernetes using kubeadm
- Creating pods and deployments using YAML
- Selectors & Labels in kubernetes
- Working with jobs
- Using Replica sets and Rolling Updates
- Services in Kubernetes

Configuration Management using Chef

- Chef Fundamentals
- Chef Architecture & components -server, Workstation and Nodes
- Chef Resources
- Recipes and Cookbooks
- Chef Resources
- Using AWS opsWorks

Configuration Management using Ansible

- Overview of Configuration Management
- Introduction to Ansible
- Ansible Components
- Installation & Configuration
- Writing Ansible Playbooks
- Working with Ansible Modules
- Creating Roles using Ansible Galaxy

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