

Big Data & DataOps Workshop - 32 Hours

Course Overview:

This foundational course introduces the core tools and practices used in modern software development and DevOps environments. Participants will gain hands-on experience working with Linux command-line tools, source control with Git, containerization with Docker, and continuous integration and delivery (CI/CD) pipelines.

The course focuses on practical workflows used by development and data teams, including working with remote servers, managing code versions and branches, packaging applications with containers, and automating build and release processes. By the end of the course, participants will understand how these tools fit together in real-world development pipelines and how to use them to improve collaboration, reliability, and deployment speed.

What Participants Gain?

- Confidently analyzing data using Tableau Server's web interface
- Building advanced charts and interactive visualizations in Tableau Web
- Creating calculations, including LOD expressions
- Applying basic statistical and analytical techniques
- Designing interactive dashboards with filters and actions
- Managing, saving, and sharing content securely in Tableau Server

Target Audience

- Software Developers
- Data Engineers
- BI Developers
- DevOps and platform engineers at the beginning of their path
- Technical professionals working with cloud and modern development environments

Prerequisites

- Basic familiarity with working on a computer and using development tools
- General understanding of software development or data workflows
- No prior experience with Linux, Git, Docker, or CI/CD is required

Course Syllabus:

Basic Linux

- **Connecting using Putty / SSH**
- Working with directories, files, and file contents
- Control operators
- Shell variables
- I/O redirection
- Filters (pipes, grep, etc.)
- File permissions

Git

- Introduction to source control
- Git branches, tags, and release management
- gitignore best practices
- Pull requests (PR) workflows

Docker

- What is Docker and containers
- Docker main components and terminology
- Docker architecture: Hub, Desktop, images, containers
- Core Docker commands

CI/CD

- CI/CD pipelines and concepts
- Jenkins overview
- Build machines
- Artifact management
- Tagging and release processes

