

DevOps Online Training

Trainer	Murthy Raju (Trainer profile)
Start date	TBD
Days	Saturday and Sunday
Duration	6 weeks (12 sessions)
Timings	2 Hours per session
Approximate effort required for ideal outcomes	24 hours of participation in the class 48 hours of effort outside the class on assigned tasks and projects
Mode of instruction	Live Instructor led course delivered Via Webex
Fee	\$ 400 ₹ 18000
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Target Audience

IT Professionals (with at least 1 year of experience in the area of system/network administration, Build and Release management, middleware/database administration, development or testing) who want to get started with devops as a part of their career strategy.

Expected Outcomes

After completion of the course, the learner will be able to understand the domain of devops and will have the knowledge and confidence to work on a range of automation tools - git, puppet, jenkins and docker and will have a very good understanding of the interrelationships between various tools. The learner will also have the necessary foundation and confidence to explore other tools in the area.

Additional details about the course

This is a very hands-on course and in each class, the learner will get a solid conceptual understanding of the topics discussed and will also be able to watch a live interactive demo by the trainer. You will also be able to follow along on your computer with the instructor so that you get first-hand experience on the topics covered. Each session has associated hands-on tasks and the learner is expected to complete them before the next session. These tasks ensure that the learner understands each topic and gains confidence for the actual adoption of the tools discussed.

Enrolment Process

Step 1: If you find the course coverage and the trainer profile appropriate to your needs and if you feel that you will benefit from the course, fill the course enrolment form [here](#).

Step 2: Make payment via bank transfer as per the payment instructions mail you will receive after registration. Credit card payment option is also available.

Course outline

Git

- Introduction to version control systems
- Cloning a repository, pull/add/commit/push routine
- Branching, resolving conflicts
- Popular git hosting services

Puppet

- Introduction to puppet and the components of puppet eco-system
- Puppet agent
- Resource Abstraction Layer
- Puppet Manifests and running them on a standalone puppet node
- DSL - The language of puppet manifests - vocabulary, constructs and coding best practices
- DSL - Resources, classes, custom types, modules, inheritance, templates
- DSL - Relationships
- Facter
- Puppet Server
- Node Definitions
- Logging
- Puppet Forge
- Additional tools and services in puppet eco-system - Hiera, MCollective, PuppetDB, Puppet Enterprise, External Node Classifier etc.

Jenkins

- Introduction to CI
- Installation and configuration of Jenkins server
- Automated builds, tests, code quality audits and reports
- Integration with version control systems
- Integration with IDEs

Docker

- Introduction to container technology and Docker
- Installation and configuration
- Dockerfile
- Kubernetes
- Docker Cluster - Swarm