**DevOps Tools and Course Content**:

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1. **GitHub**

* GitHub Overview
* GitHub Account Creation
* Organization and Repository Creation
* Life Cycle

. Branch’s Creation

. Forking

. Pulling/Pushing/Merging/Trash/etc.

* User Administration
* Issue creation
* Issue Tracking with GitHub (As a Ticketing Tool )
* Wiki Page Creation
* Webhook
* Import Repository & New Gist
* Tag Creations

1. **Jenkins**

* Jenkins Overview
* Installation and Configuration
* User Administration
* Plugin Management
* Backup & Maintenance
* Master/Slave Concept
* Integration with multiple tools
* Job Creation
* Deployments with Pipeline Code

. With Groovy Script

. With Pipeline Code

* Email Alert setup

1. **Ansible**

* Ansible Overview
* Installation and Configuration
* Adhoc Mode with all commands
* Ansible-Playbook
* Ansible Rolls

**DevOps Tools and Course Content**:

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* Ansible Galaxy
* Jenkins Integration with Ansible

1. **Docker**

* Overview
* Installation and Configuration
* Docker file Creation
* Docker Image Creation
* Containers
* Docker Compose
* Docker Volume
* Docker Swarm
* Docker Networking
* Docker Hub Creation/Org & Repo Creation
* Pulling and Pushing Images to Docker Hub

1. **Maven**

* Overview
* Installation and Integration with Jenkins
* Artifacts Generation
* Java Code Deployments with Tomcat

1. **NPM/Node**

* Overview
* Installation
* Deployments with Forever Process
* Sample Application Deployment

**DevOps Tools and Course Content**:

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1. **Monit**/**Nagios**

* Overview
* Installation
* Monitoring of all Server Health and Servers/Services health check
* Configuration file setup
* Email Setup

1. **Nexus**

* Overview
* Installation
* War/jar/rar file storage
* Docker Image Storage

1. **Apache**/**Nginx**

* Installation and Configuration
* Reverse Proxy Setup
* Website Deployments

1. **Apache** **Tomcat**

* Installation & Configuration
* User administration
* Deployment of Java Application

1. **SonarQube**

* Installation and Configuration
* Project Creation
* Code scanning
* Report Generation

**DevOps Tools and Course Content**:

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1. **Packer**/**terraform**

* Installation and Configuration
* Commands Overview
* Creation production ready AMI Images from AWS
* JSON Script explanation with example.
* Create a specific Servers for Application Deployment