DevOps

What is DevOps?

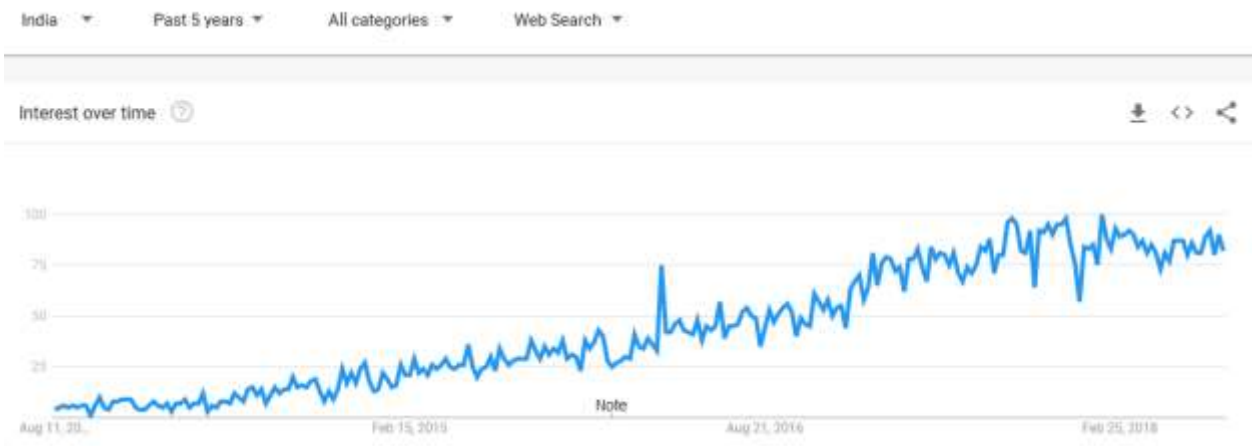
DevOps is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes. This speed enables organizations to better serve their customers and compete more effectively in the market.

What are the things used in DevOps?

- Cloud computing
- Linux commands
- Source code repository
- Build Tools
- Continuous Development
- Configuration Management
- Monitoring
- Logging Tools
- Containerization
- Web/Application server
- Database server

According to latest survey the average salary of DevOps Engineer is around $123,354 per annum (8264718 INR).

If we talk about the trends, you can see the result of google trends from the graph shown. DevOps is continuously gaining its popularity.



What does most company expect experience wise from a DevOps engineer?

- Bachelor's degree in Computer Science or equivalent.
- Experience in developing and maintaining CI/CD process for enterprise, applications using tools like Git, Jenkins, Maven, Docker etc.
- Expertise in Linux System Admin and Bash Shell Scripting or Python.
- Experience with configuration management tools such as Ansible, or Puppet.
- Hands-on experience in containers such as Docker.
- Experience in designing and maintaining cloud-based solutions with AWS, Azure.
- Familiarity with logging and monitoring technologies such as Elasticsearch and Nagios.

Dev+Ops course from ETLHive is enough for you to become an expert in the domain. The course is precisely designed keeping in mind the current industrial requirement. This course will provide you in depth idea about:

- Continuous Development, Continuous Integration using GIT, Jenkins.
- Application, Webserver and Database server such as Tomcat, Apache, Nginx and MySQL.
- Configuration Management, and Continuous Deployment using Puppet, Ansible.
- Run Container using Docker
- Use Jenkins Pipeline for automation deployments.

Course Content

Weekend 1:

- Discuss about SDLC methodologies and Release Management.
- Discuss Live Projects in details, gather the requirements.
- Create a deployment strategy, deployments, security and structure.
- Create instance on Cloud step-by-step and discuss about Linux commands.
- Hands-on Linux command and understanding of Bash shell scripting.
- Discuss about Network concepts, Linux installations on Host/Guest VMs.
- Create EC2 instance in AWS.
- Installation of Web Application and Database server.

Weekend 2:

- Discuss in detail about SCM (GIT and SVN) and deep understanding of various source control filesystems like VCS, CVCS, DVCS.
- Explore GIT commands, Branch merge, resolve conflicts, Rebase, history and GIT logs.
- Deep understanding of Ant and Maven Build Tools.
- Generate a target WAR/JAR using MAVEN.
- Installation and setup of a database MySQL or Oracle, create database user, grant permissions etc.
- Deep understanding and installation of Apache Tomcat and Apache Web server.
- Manual Deployment vs Automated Deployments.

Weekend 3:

- Installation and configuration of Jenkins and Jenkins plugins.
- Introduction of Jenkins, Configure and discuss Jenkins Jobs.
- Learn Build steps, Post-Build Actions, Secure Jenkins, Notifications.
- Learn more about Advanced build jobs, Maintain Jenkins, Automated Unit and Integration in Jenkins.
- Discuss the challenges, any issues or live system scenarios.

Weekend 4:

- Installation and configuration of Ansible.
- Discuss ansible, ansible-playbooks, ansible command line.
- Learn Ansible Lists, Dictionaries, Tasks, Groups, Variables and Modules.
- Learn more about Ansible Facts, Roles, Templates
- Ansible playbooks for Custom Scripts (Shell or Python).
- Identify the need and live scenarios and discuss in more details.

Weekend 5:

- Installation and configuration of Puppet.
- Discuss puppet, puppet language, puppet manifest.
- Learn about Puppet Manifest Syntax, Variables, Scope, Conditional Statements.
- Learn more about Resource Types, Classes, Modules and Nodes.
- Puppet Manifest for Custom Scripts (Shell or Python).
- Identify the need and live scenarios and discuss in more details.

Weekend 6:

- Installation and configuration of Docker.
- Discuss in detail about Docker, Docker containers, Docker Images, Dockerfile.
- Create a Custom Docker Images, Run the Docker Containers, Debug Containers.
- Explore in advanced design a production container for build and release.
- Continuous integration with Jenkins Pipeline.

Weekend 7:

- Configuration Management Docker with Ansible.
- Continues Delivery Pipeline Docker with Jenkins.

Weekend 8:

- Online Test
- Documentation
- Resume Feedback
- Interview preparation

FAQ's

What is the course duration?

- ✓ 8 Weekends / 16 classes.
- ✓ 2 hour each class.
- ✓ Visit https://www.etlhive.com/devops-training-in-pune/ to see the batch timings

What are the minimum pre-requisites to learn DevOps?

- ✓ Linux/Unix commands
- ✓ Familiar with Text Editor
- ✓ Regular Expressions
- ✓ Basics of Shell or Python scripting.
- ✓ Understanding of various Tool.

What are the system hardware requirements for this course?

1) Required 2 EC2 instances on AWS cloud. Free Tier – 1 year.
2) Required 8G+ of memory in laptop and i3 and above processor.

Call us

8055020011