






## About IntelliPaat


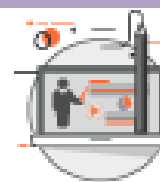
IntelliPaat is a fast growing professional training provider that is offering training in over 150 most sought-after tools and technologies. We have a learner base of 700,000 in over 32 countries and growing. For job assistance and placement we have direct tie-ups with 80+ MNCs.

### Key Features of IntelliPaat Training :

 <b>24X7</b>				
<b>Life Time Support and Assistance</b>	<b>Real Time Projects</b>	<b>Life Time Access and Free Upgrade</b>	<b>Job Assistance</b>	<b>Industry Recognised Certification</b>

## About the Course

This IntelliPaat DevOps popular training course will help you become fully proficient and deploy the DevOps principles and tools in a software enterprise. You will be learning the techniques of successfully integrating the IT development and IT operation departments. This DevOps instructor-led training will help you understand how to communicate, collaborate and automate key processes and systems in order to create synergies for creating faster and better software solutions.

	<b>Instructor Led</b> <b>Duration – 32Hrs</b> <b>Weekend Batch – 3 Hrs/Session</b>		<b>Self paced</b> <b>Duration – 16Hrs</b>
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## Why Take This Course ?

For very long times the development and the operations teams of any software enterprise have stayed at arm's length. But this organizational cultural shift thanks to DevOps a lot of changes are happening in forward-thinking enterprises. Learning DevOps will help you master all the skills needed in order to successfully build, operate, monitor, measure and improve the various processes in IT enterprises by better integrating development and operations. You will grab the best jobs in top MNCs after finishing this training.

## Course Contents

<p><b>Infrastructure Setup &amp; DevOps Foundation</b></p> <ul style="list-style-type: none"> <li>❖ Installation of – Git, Jenkins, Ansible, Puppet, Docker, Chef, CVS, Clearcase, Nagios, Maven, Database</li> <li>❖ Market Trend and Career Scope for DevOps professionals</li> <li>❖ Desired Skillset of a DevOps Engineer</li> <li>❖ Cultural practices and Supporting Tools for smooth and continuous collaboration among Operations</li> <li>❖ Product Development, Testing, Build N Release, Deployment</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ AI Infra Setup</li> </ul>
<p><b>Software Version Control (aka Source Code Management) System</b></p> <ul style="list-style-type: none"> <li>❖ Concepts of different types of Version Control Systems</li> <li>❖ Git as SCM</li> <li>❖ Git Command Line</li> <li>❖ Git setup with CI tool Jenkins</li> <li>❖ SVN, CVS, Clearcase</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a git project</li> <li>❖ Checkout a branch</li> <li>❖ Create a file and add to git, Edit file, Commit the code</li> <li>❖ Set up Jenkins and integrate with Git</li> </ul>
<p><b>Automating Build and Test</b></p> <ul style="list-style-type: none"> <li>❖ Automating Builds with Maven and Ant</li> <li>❖ Building Delivery Pipeline in Jenkins (CI/CD)</li> <li>❖ Test Automation, Security, Notification System in Jenkins</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a Maven Project</li> <li>❖ Edit pom.xml file to install a version of junit</li> <li>❖ Set up build delivery pipeline</li> <li>❖ Set up notification alerts in Jenkins</li> <li>❖ Configure test plan in Jenkins</li> </ul>
<p><b>Continuous Integration (CI)</b></p> <ul style="list-style-type: none"> <li>❖ Frequent merge of code to a shared repository after which automated builds and tests are run using Jenkins</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Commit code and check if Jenkins runs the build scripts and tests the code using automation script</li> </ul>
<p><b>Docker Container Management</b></p> <ul style="list-style-type: none"> <li>❖ What are Containers</li> <li>❖ Difference between VM and Container</li> <li>❖ Docker Fundamentals, Creating &amp; Running Docker Images, Image Distribution</li> <li>❖ Creating Docker Registry, Compose Scripts, Remote Docker Image</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Configure a Docker, Create an image in Docker and run it</li> </ul>
<p><b>Docker Commands and Best Practices</b></p> <ul style="list-style-type: none"> <li>❖ Networking concepts in Docker</li> <li>❖ Using Docker Volume and Creation of a Docker file</li> <li>❖ A text file to contain the commands to create an image</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a dockerfile with the commands to create an image</li> </ul>

<p><b>Configuration Management Tools (Infra As Code)</b></p> <ul style="list-style-type: none"> <li>❖ Configuring Puppet</li> <li>❖ Using Puppet Manifests</li> <li>❖ Puppet commands</li> <li>❖ Puppet Modules</li> <li>❖ Node Classification</li> <li>❖ Puppet Classes</li> <li>❖ Puppet Template</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Install Puppet</li> <li>❖ Configure puppet</li> <li>❖ Use Knife commands for various operations</li> <li>❖ Puppet Modules, classes, template creation</li> </ul>
<p><b>Chef</b></p> <ul style="list-style-type: none"> <li>❖ Chef Fundamentals</li> <li>❖ Chef environment</li> <li>❖ Chef Cookbooks &amp; Knife Commands</li> <li>❖ Node Object &amp; Search, Data-bags, Roles</li> <li>❖ Deploying Nodes in Production and using the Open Source Chef Server</li> <li>❖ Vagrant file</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Install a chef server</li> <li>❖ Configure a Vagrant file and setup directory structure to create and run a Chef server</li> <li>❖ Install a chef-workstation</li> <li>❖ Create a user account in manage.chef.io website</li> <li>❖ Generate a knife.rb file from the website to create a chef server</li> </ul>
<p><b>Ansible</b></p> <ul style="list-style-type: none"> <li>❖ Introduction to Ansible</li> <li>❖ Configuration, Writing Ansible Playbooks</li> <li>❖ Ansible based Configuration Management</li> <li>❖ Different Roles and Command Line usage</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Write Ansible playbook</li> <li>❖ Assign different roles in configuration tool</li> </ul>
<p><b>Performance and Automated Monitoring with Nagios</b></p> <ul style="list-style-type: none"> <li>❖ Introduction of Nagios</li> <li>❖ Nagios Setup, Commands</li> <li>❖ Objects, notifications</li> <li>❖ Configure Nagios to monitor webserver</li> <li>❖ Load Balancer (HAProxy, NginX) and Project Work</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Perform Nagios and Netdata monitoring</li> <li>❖ Monitor the performance with Grafana</li> <li>❖ Setup Syslog and verify the logs are getting generated</li> <li>❖ Configure HAProxy server</li> </ul>

## DevOps Project

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### Project 1

In this DevOps project you will be introduced to the DevOps pipeline demo in various industry domains like media, finance, medical projects and more. You will get hands-on experience in Docker containerization by deploying Jenkins, working with integration tests in DevOps, Project Reports and finance app configuration.

#### Domain – Finance

**Objective** –A global bank recruits 500 graduate software developers each year. The developers are employed at sites in 4 different countries. The bank requires a web-based questionnaire system to assess graduates’ programming skills so that they can provide appropriate training. You will need to design, implement and deploy part of the system

### Project 2

#### Domain – Media

**Objective** –A media company wishes to offer a website where users can upload photographs. Captions and titles can be added to the photographs. Customers can order prints of photos on T-shirts, mugs, and other items. You will need to design, implement and deploy part of the system

### Project 3

#### Domain – Medical

**Objective** –A hospital wishes to implement a system which can detect harmful drug interactions. They want a mobile phone application which allows doctors to enter or scan prescriptions. The system will then check for drug interactions. Any conflicting drugs will be highlighted so that the prescription can be changed. You will need to design, implement and deploy part of the application

## What makes us who we are

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Dinesh K B

“Coming from a background in automation development working with tools like Python and Perl, DevOps helped me to make a successful transition and excel at my professional career” ....[Read More!](#)

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“I had extensive experience in Linux system administration and my love for automation took me towards learning DevOps and now I am very well-placed in my career.” ....[Read More!](#)



Suvankar Das

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