Collabera TACT 360° Training
LEARN. ACHIEVE. STANDOUT

DevOps Training

jointact@collabera.com | www.collaberatact.com

ABOUT COLLABERA TACT

Collabera TACT – Technology Academy for Competency Training is an initiative started by Collabera, a $600 mn U.S. based IT Staff Augmentation Company. It aims at providing training to qualifying professionals and students on emerging technologies like Big Data, Internet of Things, DevOps, AWS Cloud, Data Science, Machine Learning, and many more.

It has been established to bridge the demand-supply gap of professionals on SMAC technologies and aims at upgrading skills of individuals and making them future job-ready that will require them to be well-versed with the emerging technologies. Once trained, we provide Collabera TACT Certification to qualifying professionals which is globally recognized in the industry. With over two decades of experience in the industry, we understand the trends, and our courses are specially designed to ensure successful careers.

Collabera is an SSAE 16 Type 2 Certified Organization. We are **Community Partners with Hortonworks, Advantage Partners with MapR and Authorized Training Partner with Google Developers,** thus, maintaining very high standards in our course deliverables.

Why Opt for Collabera TACT Program?

- Award-winning global training provider
- Curriculum review and inclusions for Educational Institutions
- Constant tracking and evaluation of learner's progress

TACT Offerings

- Excellent Quality Training, optimised batch size
- State-of-the-Art infrastructure
- Practical, in-depth knowledge
- Expert Trainers who are SMEs and technocrats
- Lifetime 24 X 7 LMS (Learning Management System) access
- Live moderator support throughout the program

AWARDS & ACCOLADES

TOP 5 Big Data Training Institutes 2017 – TACT recognized by siliconindia

Collabera TACT ranked **1st** amongst Top 10 IoT Training Companies for the **Second consecutive year.** – 2017 IoT India Magazine

Collabera TACT – siliconindia Best Training Provider Big Data Hadoop Developer of the Year 2016

Collabera TACT ranked **1st** amongst Top 10 IoT Training Institutes – 2016 – Analytics India Magazine

TOP 5 Emerging Technologies Training Companies 2016 – TACT recognized by siliconindia

World HRD Congress has awarded **Collabera TACT** for its Excellence in Training (Asia)

Best Training Provider presented to **Collabera Technologies Pvt. Ltd,** Asian Training & Leadership Award, Dubai

TOP 5 Cloud Training Institutions India 2016 – Collabera recognized by Higher Education Review

ASSOCIATIONS

Google Developers Authorized Training Partner

MAPR Advantage Partners

Hortonworks PartnerWorks Consultant Community

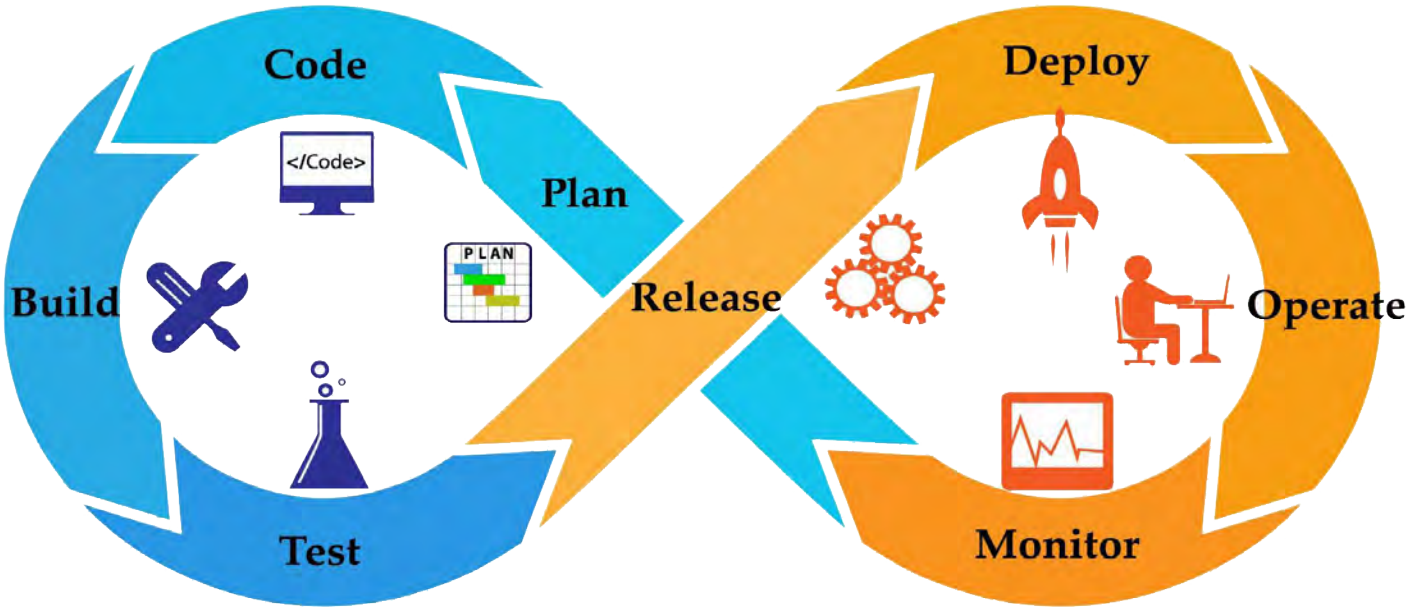
To learn more, visit our website

Apply Today: collaberatact.com

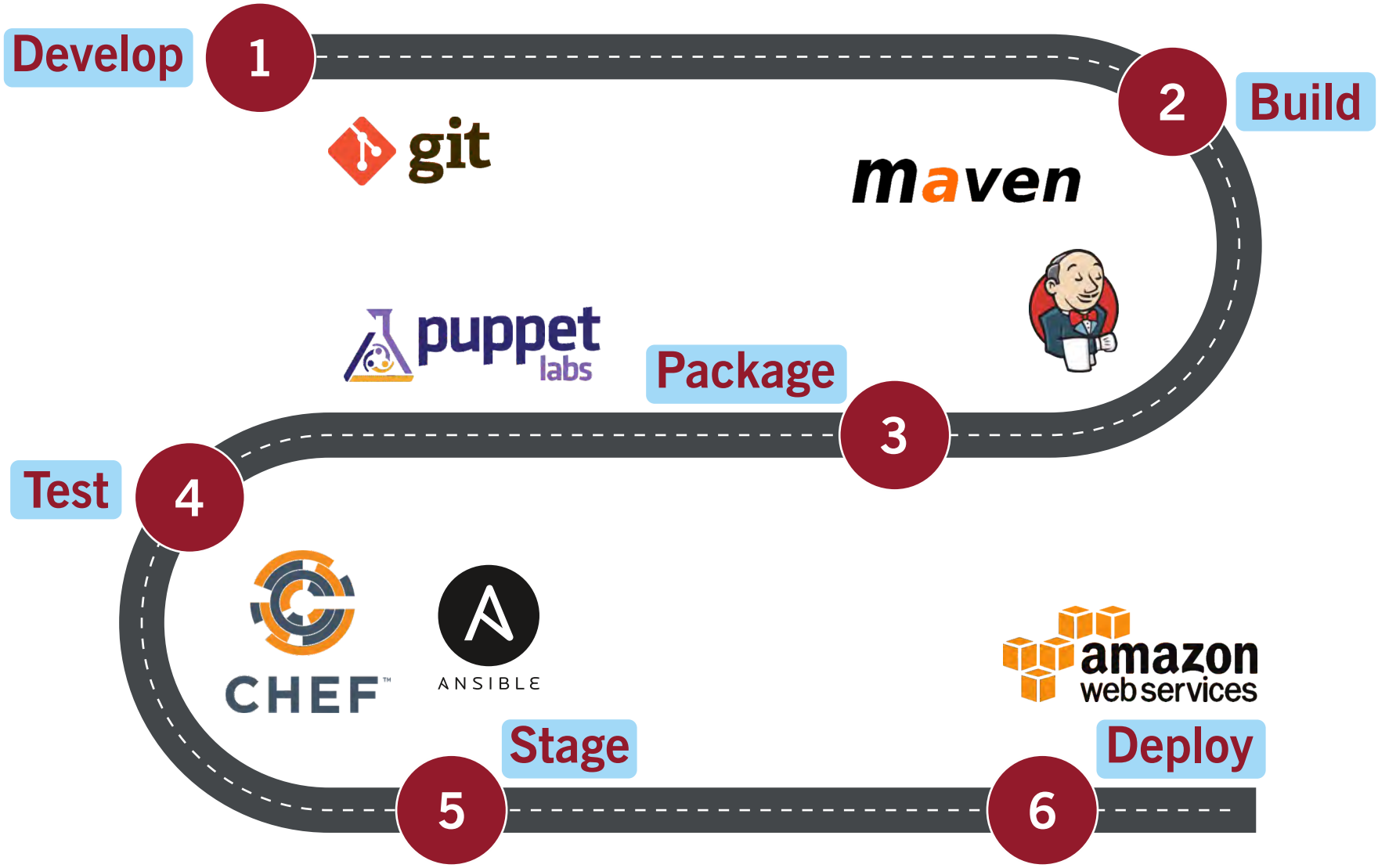
THE WORLD OF DEVOPS

DevOps is a practice combining both Development and Systems Operations. This course is designed to make you a practitioner of DevOps by providing you hands-on training on tools that have emerged as part of DevOps lifecycle. “DevOps” as a term was first coined in 2009 by Patrick Debois, who became one of the chief proponents. Simply put, DevOps is a combination of software development and operations—and as its name suggests, it is a melding of these two disciplines in order to emphasize communication, collaboration, and cohesion between the traditionally separate developer and IT operations team.

Rather than seeing these as two distinct groups, who are responsible for their specific tasks but don't really work together, the DevOps methodology recognizes the interdependence of the two groups. By integrating these functions as one team or department, DevOps helps an organization deploy software more frequently while maintaining service stability and gaining the speed necessary for more innovation.



THE DEVOPS ROADMAP



WHO SHOULD STUDY DEVOPS?

Whoever wants to grasp how concepts of DevOps transformation can help in focusing on value and streamline the delivery can enroll for this training program.

People who want to learn about the common infrastructure servers, scalability and availability can also train for the program.

Software Developer Technical Project Managers Architects Operations Support Deployment engineers IT managers Dev managers can enroll for this course.

This training program is for someone who aspires to make a career as a DevOps Engineer or a Service Engineer in the Enterprise Infrastructure arena.

With the basic understanding of Linux and Networking, anyone can go for this course. This training program is best suited for professionals like Project Managers, Testing Professionals, Software Developers and Architects.

ELIGIBILITY / PRE-REQUISITES

Knowledge of software development, preferably in Java, and the UNIX/Linux command line tools is essential for this course.

TRENDS IN THE DEVOPS + INDUSTRY VIEWS

“DevOps is becoming everything – development, operations, security, testing, and deployment."
Michael Schmidt, Senior Director, Automic

“Without Devops there is no continuous growth."
Muchael Hutterman, CEO of Hutterman.com

“There's only two percent adoption of DevOps practices around the world, Just Imagine the potential the eld of DevOps has.”
Craig Lurey, CTO and Co-Founder, Keeper Security

PROGRAM STRUCTURE & PLATFORMS

We provide 32 hours of live online training including live point of contact & assignments.

It would be live & interactive online session with Industry expert Instructor.

ANSIBLE

maven

CHEF™

git

puppet labs

amazon web services

DETAILED CURRICULUM : MODULES

Introduction to Devops

- Define Devops
- What is Devops?
- SDLC models,Lean,ITIL,Agile
- Why Devops?
- History of Devops
- Devops Stakeholders
- Devops Goals
- Important terminology
- Devops perspective
- Devops and Agile
- Devops Tools
- Configuration management
- Continuous Integration and Deployment

Introduction to Cloud computing

- What is Cloud Computing?
- How Cloud Computing are helpful?
- Cloud's role in DevOps orchestration
- What is AWS?
- Use cases in AWS
- Companies using AWS and Market tends
- Different Services offered in AWS
- Use case: - Highly available fault tolerant systems
- Understanding availability zone
- region
- Creating your own account in AWS
- Creating a VPC
- subnet
- network gets way
- Running your own EC2 instance
- Connecting in EC2 and installing https in EC2
- S3
- Over viewS3
- SNS. Cloud watch

Introduction to Virtualization

- What is Virtualization?
- History of Virtualization
- What is Hypervisor?
- Types of Server Virtualization
- Benefits of Virtualization
- Important Virtualization products

VAGRANT

Introduction

- Why and what is Vagrant?
- Uses of Vagrant in an environment
- Alternatives of Vagrant
- Vagrant versions

Installation and Configuration

- Installing Virtual box
- How to install Vagrant on Windows?
- Configuring Vagrant

Provisioning with Vagrant

- Creating first VM with Vagrant
- Operations on the VM
- Connecting to the VM
- Add required Images to Vagrant
- Using Vagrant.

DETAILED CURRICULUM : MODULES

GIT: Version Control

- Introduction
- Version control systems
- Local, Centralized and distributed

Installing Git

- Installing on Linux
- Installing on Windows
- Initial setup

Git Essentials

- Creating repository
- Cloning, check-in and committing
- Fetch pull and remote
- Branching

Chef for configuration management

Overview of Chef

- Common Chef Terminology (Server, Workstation, Client, Repository etc.)
- Servers and Nodes
- Chef Configuration Concepts

Workstation Setup

- How to configure knife?
- Execute some commands to test connection between knife and workstation

Organization Setup

- Create organization
- Add yourself and node to organization

Test Node Setup

- Create a server and add to organization
- Check node details using knife

Node Objects and Search

- How to Add Run list to Node
- Check node Details

Environments

- How to create Environments
- Add servers to environments

Roles

- Create roles
- Add Roles to organization

Data bags in chef

Search criterion in Chef

Real time cookbooks

Puppet for configuration management

- What is Puppet?
- How puppet works?
- Puppet Architecture
- Master and Agents
- Configuration Language
- Resource Abstraction Layer
- Transactional Layer

Installation and Configuration

- Installing Puppet
- Configuring Puppet Master and Agent
- Connecting Agents

Puppet Master

- Puppet configuration tree
- Puppet configuration files

Puppet Language Basics

- The declarative language

DETAILED CURRICULUM : MODULES

- Resources
- Resource Collectors
- Virtual Resources
- Exported Resources
- Manifests
- Relationships and Ordering
- Modules and Classes
- Class Parameters
- Defined Types

Puppet Language Advanced

- Facter
- Variables
- Conditional statement
- If Else
- Case and Selectors
- More Conditionals and Logic
- Resource relationship

Templates

- Static Contents Explosion
- Using Dynamic Content with Templates
- Templates Overview
- ERB

Example Code Manifests/Modules

- NTP Module
- Users Module
- SSH
- Sudo

Ansible:

- Introduction to Ansible
- Ansible Architecture
- Ansible terminology
- Ansible commands
- How to add nodes to server
- Ansible installation and configuration
- Installing ssh on nodes
- Generating the keys
- Components of Ansbile
- Inventory
- Configuration
- Modules
- Playbooks
- Global Configuration
- Roles
- Tags
- How to write playbooks
- PYYAML overview
- How to write playbooks
- Ansible modules
- Ansbible Roles
- Ansible Galaxy
- How to download playbooks from Galaxy
- Realtime playbooks

Nagios: Monitoring

- Introduction and Installation
- Obtaining Nagios
- Compiling and installing Nagios

Basic configuration

- Creating a new host and service
- Creating a new e-mail contact
- Verifying configuration
- Creating a host group and service group

DETAILED CURRICULUM : MODULES

- Creating a new contact group
- Creating a new time period

Plugins and commands

- Finding and installation of a Plugin
- Removing a plugin
- Creating a new command
- Customizing commands

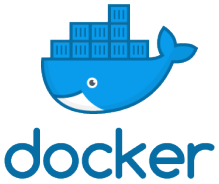
Using Nagios GUI

- Scheduling downtimes
- Generating reports
- Configuring notification
- Configuring checks
- Managing Flapping

NRPE Monitoring

- Enabling Remote Execution
- Monitoring local services on a remote machine with NRPE
- Setting the listening address for NRPE

DETAILED CURRICULUM : LIVE PROJECT WORK



Build web applications in docker container.

Automate implementation of code using chef and puppet.

Application implementation and configuration using chef and puppet.

Deploy Jenkins app using different containers like web logic and tomcat.

COLLABERA TACT KEY BENEFITS

- LIFETIME LMS ACCESS
- 24 x 7 SUPPORT
- INDUSTRY EXPERTS AS TRAINERS
- 25 REAL-LIFE USE CASES & PROJECTS
- REAL-TIME CLOCK MODULE

EXIT PROFILE

DEVOPS ENGINEER

DEVOPS ARCHITECT

TESTIMONIALS

MANI RANGAN, CHENNAI, INDIA

The DevOps training program enables us in grasping the concepts of how DevOps transformation can help in focusing on value and streamline the delivery. Moreover, the support received from the trainer and technical team was appreciable.

VISHAL BHATIA, BANGALORE, INDIA

Excellent training. Highly engaging. Appreciate the trainer's idea of "all lab" training.

MANI RANGAN, HYDERABAD, INDIA

I was always keen about learning the cloud infrastructure and I'm happy that I choose the DevOps course offered by TACT. The training program is very informative and is best for the beginners.

ADAM MITCHELL, United States

The course curriculum is very informative and the support received from the technical team is commendable.

SAMSON COSTA, United Kingdom

The DevOps training offered by TACT is very interesting, and approach of the trainer in resolving the query was quite impressive.

CARL JOHNSON, Australia

The overall training program on DevOps offered by TACT has been a great experience. The course content covers the application of Bash/Python basics and understanding the performance and security for Infrastructure.

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