Linux

--- accessibility

--- text editors

--- creating users and groups

--- creating,moving and deleting a file

--- permissions,umask

--- package management(apt-get,yum,dpkg,rpm)

--- bash shell configuration file & shell variables

--- searching files in linux

--- streams,redirects,awk,grep,

--- data storage

--- setting up passwordless ssh

--- sshd config file

Intro to Devops/Config Management

--- SDLC & CI/CD

--- overview about jenkins

--- Jenkins and Maven integration

--- Creating jobs using Jenkins

--- Parametrized Project builds

--- Jenkins Slaves with Docker

AWS

---IAAS,PAAS,SAAS & Virtualization

---Intro to AWS Offerings

---setting up EC2

---EBS & Launching a website using S3

---Autoscaling , SNS,CloudWatch

---Creating an AMI

---ips and subnets

---Setting up a VPC & NAT Gateways

---Cloud formation intro

Vagrant Basics

-- vagrant introduction

-- vagrant installation

-- vagrant getting started

-- vagrant boxes

-- vagrant plugins

-- vagrant provisioning

-- Customizing Boxes

-- vagrant packaging

Docker

---Container management

---Building an Image

---Dockerfile directives

---Port Forwarding

---Docker volume/networking

--- Pushing Docker images to cloud

---Communication between Docker Containers

Chef

--- overview

--- setting up chef environment

--- chef terminology

--- overview of resources and actions

--- writing a cookbook to install git

--- knife commands and knife.rb

--- understanding chef run

--- writing a cookbook to install lamp

--- attributes

--- writing a cookbook to install apache and start tomcat

--- metadata.rb

--- test kitchen

--- food critic,rubocop

Ansible

---setting up ansible environment

---Inventory

---YAML

---Hosts

---Tasks

-- Tags

---Plays

---Playbook Execution

---Conditionals and Jinja

---Modules

---Roles and Use Cases

--- Manage Docker containers with Ansible

--- Terraform essentials

NOTE: The order might vary a little bit and pre class work will be given before the classes and if required homework will also be given and candidates are required to trouble shoot.