1. SDLC - 1
   * <https://en.wikipedia.org/wiki/Systems_development_life_cycle>
   * <https://stackify.com/what-is-sdlc/>
2. AWS Free account - 3
   * Create an AWS Free account

* Service Limitations
* Basics about EC2 and S3, IAM

1. Linux Commands - 3

* Login into Linux servers
* Work with Linux console
* Multiple commands (df, dh, free, find,mkdir,cd,touch,cat etc)
* Create users in Linux
* Passwordless connection
* SCP and SSH to linux servers
* File’s editors, replace, etc.

1. Linux Installations - 2

* Install tools
* Jenkins’s installations
* Create Tomcat installation script

1. Linux scripting – 5
   * Basic script
   * Input parameters
   * Comma separated input parameters
   * If condition
   * For loop condition
2. GitHub - 3
   * Create account
   * Create repos
   * Push data to GitHub
   * Pull data
   * Commits
   * Add remote links
   * Private repos and public repos
   * Webhooks for push every commit
3. Actual Java coding, push and pull code with changes with git. Maven code - 3
4. Maven - 2
   * Installation
   * verify versions
   * Maven goals
   * Build code with maven
5. Jenkins - 3
   * Install Jenkins
   * Jenkins UI access
   * Create a script to install maven and Jenkins
6. CICD - 10
   * Create Freestyle jobs
   * Steup CI CD for the Java code
   * Upload artifacts to S3
   * Deploy to different tomcat servers
   * What is CI CD
   * Java CI CD
   * Pipelines
   * Build and deployment through pipelines
7. Dockers - 5
   * What is docker
   * Dockerfile
   * Create docker.hub account
   * Build and push images
   * Create web image
   * CI CD with Docker
8. Kubernetes, dockers warm - 5
9. Ansible - 5
   * Basic Ansible commands
   * Ansible playbooks
   * Use multiple ansible modules
   * Monthly patch playbook
   * Deployment playbook
   * Loops, conditions
10. Terraform - 8
    * What is terraform
    * Commands
    * File structure and input parameters
    * File types
    * Create code
    * Create end to end VPC code and deploy servers in VPC
    * Create modules
    * Terraform workspace
    * Terraform backend
11. AWS Cloud - 15
    * VPC
      1. Subnets
      2. NAT
      3. IGW
      4. Route Tables
    * IAM
      1. Role
      2. Users
      3. Groups
      4. Custome rule
    * Cloud-shell
    * CloudWatch
      1. Logs
      2. Event
      3. Dashboard
      4. Alarms
    * EC2
      1. Servers, Server-types
      2. Load Balancers
      3. AutoScaling Groups
      4. AMI
      5. Volumes
      6. Mount and Unmount volumes
      7. Snapshots
    * S3
      1. S3 Storage classes
      2. Versioning
      3. Static Website
      4. Lifecycle rules
      5. Replication rules
    * SNS
      1. Topics
      2. Email notifications
    * SQS
      1. Simple Queue
      2. Notification to SNS
      3. Integrate with Cloudwatch event
      4. Read SQS message
    * Lambda
      1. Basic Lambda
      2. Server Shutdown notification-automatic using python Boto3
      3. Notification from SNS
      4. Integrate with Cloudwatch event
    * Cloud trail
      1. Events
      2. Events history by user
    * RDS
      1. Create RDS service
    * Route 53
      1. Routing policies
    * AWS CLI
12. Python – 5 – Boto3
    * AWS Lambda – Ec2,SNS,S3,SQS
13. Servers monitoring using Data dog
    * Install agents
    * Create free Data dog account
    * CPU monitor
    * Alerts