PRAGATHI TECHNOLOGIES

BTM * MARATHAHALLI * KALYAN NAGAR

ANSIBLE(Configuration Management Tool) :

- ➢ Introduction to Yaml
- ➢ Ansible inventory & Modules
- ➢ Ansible Playbook
- ➢ Ansible Roles
- ➢ Coding Excersise
- ➢ Error Handling
- ➢ Jinja2 Template
- ➢ Ansible vault
- ➢ Real deployment scenarios

Git :

- ➢ Git installation and configuration
- ➢ Basic Git commands
- ➢ Visual Merge/diff tool installation
- ➢ P4 merge installation (optional)
- ➢ Git comparison between Git commits
- ➢ Git branching , Happy Path, Git cleanup
- ➢ Git rebasing
- ➢ Git stash
- ➢ Git tagging

Docker :

- ➢ Docker installation
- ➢ Nginx web server configuration in docker
- ➢ Playing with docker images
- ➢ Docker Cli process monitoring
- ➢ Docker network, dns
- ➢ Share volume in docker
- ➢ Persistent volume concept in docker
- ➢ Concept of docker compose
- ➢ Real time deployment scenarios

Kubernetes :

- Introduction to Kubernetes
- Kubernetes installation Master slave
- Kubernetes components explanation
- Kubernetes coding creating yaml scripts
- Pod lifecycle.
- Metrics monitoring of docker containers through Kubernetes
- Ingress controller, autoscaling, replication controller , services
- Kubernetes administration
- Kubernetes user management , quota, High availability (optional)

Jenkins :

- Introduction to Jenkins
- Jenkins installation nd configuration
- CI/CD pipeline creation in Jenkins
- Jenkins integrations with artifactory , email and other components
- Sonar have analysis for Jenkins code
- Jenkins Master Slave administration
- Jenkins Role configuration
- Jenkins DSL (Domain specific language), Pipeline scripts

Monitoring – Nagios :

- Introduction
- Installation and Configuration
- How to monitor the Servers in Nagios
- Configure Nagios client
- Writing Probes for Nagios
- How to check events; CPU, Memory and RAM Graphs for servers.