

## SUMMARY

- 9 years of experience in providing cost- effective, highly available business applications for enterprise customers through Cloud Computing, Linux System administration, Network and Security Management
  - Worked in highly collaborative Agile environments dealing with product owners, developers and other stakeholders. Used Jira extensively to track work in sprints for epic deliverables
  - Extensive experience in AWS, DevOps, UNIX and Linux administration, Build Engineering and the release management process including end- to- end code configuration, building binaries and deployments of artifacts and the entire life cycle model in enterprise applications
  - Installation and setting up Kubernetes cluster on AWS manually from scratch
  - Created IAM roles and mapped via AWS config map for the EKS
  - Created Kubernetes deployments (Stateful Set and Daemon Set) with config Map, Secrets & Security Context
  - Set up and managed Docker containers, running Go, NodeJS, Java, python, and PHP applications, for deployment into Kubernetes Pods
  - Designs, develops, documents, tests, and debugs new and existing configuration management (Terraform) infrastructure as code
  - Experience in Terraform, CloudFormation & CDK to efficiently deploy, release, scale, and monitor infrastructure for multi-tier applications
  - Architecture experience in designing high availability solutions in Cloud infrastructure including AWS
  - Proficient with in depth knowledge of using various AWS services which include IAM, VPC, EC2, ELB, Auto Scaling, S3, Glacier, RDS, DynamoDB, Cloud Front, Cloud Watch, Route53
  - Extensively used python (boto3) to manage AWS resources and created lambda functions
  - Deploy OpenShift platform on VMWare and AWS cloud and automate microservices deployment using Ansible and XL Deploy tools
  - Configure, Automate and Deployed Ansible for configuration management to existing infrastructure.
  - Used Ansible and Ansible Tower as configuration management tool, to automate repetitive tasks and deploy applications
  - Used Ansible playbooks to setup CD pipeline. Deployed microservices and provisioned AWS environments using Ansible playbooks
  - Hands on experience with a broad range of AWS Cloud Services like EC2, ELB, Auto Scaling, VPC, Route53, RDS, S3, IAM, SNS, SQS, Dynamo DB, Elastic search and CloudWatch
  - Experienced in architecting applications for AWS with Kubernetes Container cluster manager
  - Experience with monitoring tools such as Nagios, Grafana, Prometheus, ELK, App Dynamics, and Dyna trace
  - Experience working with agile scrum software development methodology, in a continuous integration and continuous delivery (CI/CD) environment for efficient software delivery solutions
  - Expertise in configuration and automation using the leading tools in the industry such as Puppet and Ansible
  - Experience with Docker clustering/orchestration tools like Kubernetes
  - Proficient in installing, patching, upgrading, and configuring Red Hat Linux 5.x, 6.x,7.x and 8.x using red hat Satellite servers
  - Experience in building datacenters including DEV, test, production, and DR facilities in multiple locations with VMware, SRM, Red Hat Cluster Suites
  - Managed and responded to the daily alerts from monitoring systems (Nagios, New Relic,

- Grafana, Splunk, Prometheus etc).
- Expert in UNIX shell scripting including bash and knowledge of python scripting
- Written Bash and Python scripts integrating Boto3 to supplement automation provided by Ansible and Terraform for task such as encrypting EBS volumes backing AMI's and scheduling Lambda functions for routing AWS tasks
- Experienced in installation, configuration, and support of JBOSS, Tomcat, Apache Web server, WebSphere, LDAP, and mail server
- Efficient in communication, documentation, problem identification/resolutions and a very good team player
- Provided on call support and around the clock service (24/7)

## EDUCATION

- Masters in Northeastern Illinois University, Chicago, IL, USA
- Bachelor of Technology, JNTU, Hyderabad, India

## CERTIFICATION

- AWS Certified Solutions Architect – Associate

## SKILLS

Operating Platforms	Linux (Red Hat, SUSE, Unix-Sun Solaris, VMware ESX, Ubuntu, AIX)
Programming Languages	Ansible, scripting - Bash and Python
Infrastructure As a Code	Terraform, CloudFormation, Ansible etc.
Version Control Tools	GIT, Tortoise SVN, Visual SVN, Bitbucket
Build Tools	Ant, Maven, Jenkins, Hudson, and Bamboo
Monitoring Tools	Nagios, SNMP, Tivoli, Splunk, Prometheus, CloudWatch
Cloud Web/Application Servers	Amazon Web services (AWS), Azure, GCP, Terraform, Open Stack, Web Logic, WebSphere, JBoss, Apache HTTP Server, and Apache

## EXPERIENCE

### **Aug '18 – Current Sr AWS/Devops Engineer, Kaiser Permanente, Atlanta, GA**

Collaborate with development teams to gather project requirements and implement solutions in Kubernetes (Docker) platform deployed in AWS. Review existing infrastructure deployment and implementing new solutions to streamline processes. Upgrading and patching software to newer versions and vulnerability remediation. Implement CI/CD pipelines to automate application build and delivery. Monitoring infrastructure and docker application metrics using open-source tools

- Architect AWS cloud solutions and migrate applications from on- premises data centers. Use industry best practices to define network, compute, and security for enterprise applications
- Involved in Building and configuring Red Hat Linux Servers using Kick Start server as required for the project. Maintained maximum uptime and maximum performance capacity for enterprise environments
- Automate Build, test and deployment of applications using Docker, Kubernetes Jenkins, Bamboo or AWS DevOps CI/CD pipelines
- Automate infrastructure provisioning (EC2, API Gateways, Security groups, Subnets, Load Balancers, Route53...etc.) on AWS using CloudFormation and Terraform. Automate IAM roles and policies using CloudFormation
- Used IAC Terraform to efficiently deploy, release, scale, and monitor infrastructure for multi- tier applications
- Proficient in AWS services like VPC, EC2, S3, ELB, Autoscaling Groups (ASG ), EBS, RDS, IAM , CloudFormation, Route53, CloudWatch , CloudFront, Serverless, Migration (using AWS DMS, AWS migration Hub) etc.
- Automate, test, and commit infrastructure code into GitHub, Gitlab and Bitbucket as version control system. Peer review infrastructure code for compliance to standards and provide feedback
- Experience with container- based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them

- Experience with Docker and Kubernetes to manage micro services for development and continuous integration and continuous delivery
- Deploy Kubernetes manifests/template to create objects including config maps, secrets, build configs, volumes, PVC's, pods, services, routes...etc.
- Automation of server/software deployments using Ansible. Creating Ansible roles, tasks to automate most of the recurring tasks
- Develop scripts to automate custom features not available by default using python AWS boto3 SDK, lambda and terraform
- Written bash and python boto3 script to create lambda functions and automation scripts needed for CI/CD operations
- Installed, configured, and administered Jenkins CI tool on Linux machines and Setup Jenkins Build server and maintenance
- Created Jenkins pipelines for various projects such as terraform for infrastructure builds and code deployments
- Used Maven as Build Tool for the development of build artifacts on the source code
- Used ANT and Maven as build tools on java projects for the development of build artifacts on the source code
- Worked and configured monitoring and logging tools such as Nagios, Elasticsearch, CloudWatch, Splunk, Prometheus, Grafana etc.
- Established infrastructure and service monitoring using Prometheus and Grafana
- Monitor logs in Docker and EC2 and create configuration to transport logs into CloudWatch
- Manage RedHat VM's on AWS and troubleshoot issues with docker engine, CPU/memory utilization, installing software packages. Manage EC2 instances for patching using Ansible scripts
- Opening support tickets with AWS and RedHat to troubleshoot AWS infrastructure or platform services related issues
- Experience in exporting Junit scripts from Selenium IDE to Eclipse Junit Test suites, creating new Junit test cases, modifying the selenium scripts and writing test suites using Junit
- AWS IAM administration responsibilities including creating users, manage roles and policies
- Renewing SSL certificates, creating custom domains in AWS using terraform
- Follow Agile approach for sprint deliverables, track progress using Jira user stories and Epics

**Environment:** Jenkins, AWS, Docker container platform v3.11/4.x, Kubernetes, RedHat Linux v7.x/8.x, Windows, Ansible, Cloud Formation, Terraform, GitHub, JIRA, Confluence, RedHat container registry, Datadog, Elastic search, Kibana, Shell, Python, Elastic Search

**Nov '17 – Aug '18 Sr Devops Engineer, Morgan Stanley, New York city, NY**

This project installs and manages the servers in the cloud & implemented software and hardware to support UNIX/Linux environments

- Developed and supported the RedHat Enterprise Linux based infrastructure in the cloud environment.
- Created instances in AWS and facilitated migration to AWS cloud using numerous services and resources which include VPC, EC2, Elastic Load Balancing, Auto Scaling, S3, RDS, SES, SNS and IAM from the data center
- Hands on experience with Chef, dockers, and Puppet in AWS Cloud environment. Installed, configured, and managed Puppet Master and Agent
- Implemented roles and groups for users and resources using AWS Identity Access Management (IAM) and managed network security using Security Groups and IAM
- Experience in utilizing CloudWatch to monitor resources like EC2, Amazon RDS DB, Dynamo DB tables, and to set alarms for notifications or automated actions and monitor logs for a better understanding and operation of the system
- Maintained and utilized the policy management of S3 for storage and backup of files on AWS
- Handled migration of on premises applications to cloud and created resources in cloud to enable it
- Configured VPCs and secured them using multi- tier protection - security groups (at instance

- level) and network access control lists (NACL, at subnet level)
- Implement and automate DevOps continuous integration and deployment pipelines and functions using Chef, Puppet, dockers
- Dockerized applications by creating Docker images from Docker file
- Installed and configured Linux, SuSe & Red hat 5.x, 6.x, 7.x on Dell Power Edge & HP ProLiant servers, IBM Blade Center, using Kickstart with PXE for LAMP (Linux, Apache, MySQL, and Perl/PHP) installations
- Installed deployment and system configuration automation by Puppet and Chef server
- Implemented Puppet modules to automate configuration of a broad range of services
- Wrote puppet manifests for deploying, configuring, and managing collected for metric collection and monitoring
- Automated and processed the developed tools by the DevOps team for Linux
- Installed deployment and system configuration automation by Puppet server
- Worked on git, GitHub as code repository
- Worked on Nagios to monitor the host
- Worked on ticketing tools like Jira and helpdesk
- Experience in software upgrades, O/S upgrades, applied fixes and patches to Linux, Windows and Solaris Operating Systems
- Managed storage across the systems using EMC VNX storage service
- Documentation of the procedures and policies involved in every task
- Provided 24x7 support during on call rotation

**Environment:** RHEL 5.x 6.x 7.x, AWS (EC2, VPC, S3, RDS, CloudFormation, CloudWatch, CloudTrail, Route53), Ansible, dockers, VMware ESXi 5.x/4.x, GIT, JIRA

**Apr '16 – Sep '17 AWS/Devops Consultant, DIALOG SEMICONDUCTOR, Campbell, CA**

This project installs and manages the servers in the cloud, implemented software and hardware to support UNIX/Linux environments

- Responsible for architecting, designing, implementing, and supporting of cloud-based infrastructure and its solutions
- Automated deployment, administration, and monitoring of a large-scale AWS Linux environment and participated in the migration of existing Application to AWS cloud
- Implemented roles and groups for users and resources using AWS Identity Access Management (IAM) and managed network security using Security Groups and IAM
- Worked on AWS services like EC2, S3, Cloud Formation, Cloud Front, RDS, VPC, Cloud watch, IAM Roles/Policies, SNS subscription service
- Designed and implemented fully automated server build management, monitoring and deployment using configuration management tools like Ansible
- Experience in AWS, creating instances and included managing application in the cloud
- Created S3 buckets to store build artifacts, packages, and dependencies of the application
- Created GitHub repository for current and future project scripts
- Experience in Branching, Merging, Tagging, and maintaining the versions using tools like GIT
- Implement and automate DevOps continuous integration and deployment pipelines and functions using Chef, Puppet, dockers, Git & Jira
- Created profiles in puppet and pushed them across all the servers in UNIX and Linux environment.
- Installed and configured Oracle Enterprise Linux, SuSe & Red hat 5.x, 6.x, 7.x on Dell Power Edge, HP ProLiant Blade and CISCO UCS and IBM Blade servers using Kickstart with PXE for LAMP installations
- Installation and administration of Oracle E Linux on x86 Enterprise servers for test labs, production, and disaster recovery setup
- Configured kickstart servers and booted the images using PXE in Red Hat Linux and used Red hat Satellite server extensively
- Implemented the VMware Infrastructure for Windows, SLES 11 and Linux Red hat with VMware

- ESXI 5.x, 4.x, 3.5, Virtual Center 2.5 and administered the VMs with VI client
- Worked on git, GitHub as code repository
- Experience in software upgrades, O/S upgrades, applied fixes and patches to Linux, Windows and Solaris Operating Systems
- Performed the active directory integration for authentication using VCenter Operations Manager (VCops)
- Monitored the servers using Nagios
- Managed storage across the systems using EMC VNX storage service
- Documentation of the procedures and policies involved in every task

**Environment:** RHEL 5.x 6.x 7.x, AWS (EC2, VPC, S3, RDS, CloudFormation, CloudWatch, CloudTrail, Route53), Ansible, VMware ESXI 5.x/4.x, GIT, JIRA

**Oct '13 – Mar '16 Sr. Linux Administrator, Wells Fargo, Des Moines, IA**

- Working on System and platform integration in a large enterprise Linux-based environment
- Installed and configured Linux, SuSe & Red hat 5.x, 6.x, 7.x on Dell Power Edge (710,720 and 730),
- using Kickstart with PXE for LAMP (Linux, Apache, MySQL, and Perl/PHP) installations
- Configured kickstart servers and booted the images using PXE in Red Hat Linux and used
- Red Hat Satellite server extensively
- Configured, Installed KVM on RHEL and SLES
- Provisioned Linux and Windows VM's on KVM Hypervisor and Monitor them
- Performed Data Center migration from one location to the other
- Building, Configuring, and Supporting of New Datacenters, Designing and implementing
- Clustering with HA & DRS, & Resource Pools for high availability
- Worked on bash script for building Vm's
- Use KVM, DS view and IDRAC for remote access of servers
- Implemented the VMware Infrastructure for Windows and Linux Red hat with VMware ESXI 5.x, 4.x, 3.5
- Virtual Center 2.5 and administered the VMs with VI client
- Configured the VLAN and Ethernet Link Aggregation
- Deployment of VMware Power CLI tools for automation of vSphere and vCenter administration.
- Maintained centralized interface for virtual machines networking configuration with the help of vSphere distributed switch
- Automated the installs using Jumpstart and Kickstart and building post install scripts using shell scripting in SUN Solaris and RHEL servers
- Extensively worked on Dell hardware. From purchasing phase to rack and build
- Did worked on hardware failures and replacements in lab
- Building datacenters including DEV, test, production, and DR facilities in multiple
- Conducting installation/configuration/upgrades of hardware, operating systems, software and security related patches on a regular schedule
- Working for Security via (Iptables, Firewallled), Networking, Storage (SAN/NAS), configuration,
- Creating, altering, Monitoring the Database and Database Objects (Logical db, schemas)
- Performing change operations, performing Dist, backup, Recovery, Upgrade
- Working on new technologies like Greenplum DBA
- Working on new Hardware for Greenplum (cluster based DCA)
- Hardware used for DCA (Dell, HP)
- Collaborating with other teams to work on various Projects

**Environment:** Red hat Linux 6.x 7.x VMware ESXI 5.x/4.x Veritas volume manager, Apache, SSH, Windows server 2003/2008 R2, Active Directory