**TEJA . D**

**Sr.DevOps/AWS Engineer**

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**Professional Summary:**

* Overall 8 years of extensive experience in Automating, configuring and deploying instances on cloud environments and Data centers. Experience in the areas of **DevOps,** CI/CD Pipeline, Build and release management, **AWS/Azure and Linux/Windows Administration.**
* Experienced in deploying and updating templates and associated collection of resources by using the **AWS** management console and API’S using **CloudFormation** and designed **RedShift** based BI solution platform for optimized performance and usability.
* Involved in designing and deploying applications utilizing all the**AWS** stack (Including **EC2, Route53, S3, ELB, EBS,VPC, RDS, DynamoDB, SNS, SQS, IAM, KMS, Lambda, Kinesis**) and focusing on high-availability, fault toleranceand **auto-scaling** in**AWS CloudFormation,**deployment services (**DevOpsWorks and Cloud Formation**) and security practices (**IAM, Cloud Watch, Cloud Trail**).
* Implemented **Amazon EC2** setting up **instances, virtual private cloud (VPCs**), and **security groups**.
* Move development application from **Docker containers** and deploy into production **Cloud Foundry** environment.
* Devops role converting existing **AWS** infrastructure to server less architecture(**AWS Lambda**, **Kinesis**)deployed via **terraform** or **AWS Cloud formation**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, **Bash**, **GIT**, **Docker**, on **GCP(Google Cloud Platform)**. Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI**/**CD** system to build, test deploy.
* Managed **Kubernetes** charts using Helm and creating reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files and Managed releases of **Helm packages**.
* Developed **Ansible** scripts in **YAML** for an automated server provisioning and **Docker images**, reducing the time between provisioning and deployment.
* Experienced in **Azure** IaaS, Provisioning VM's, Virtual Hard disks, Virtual Networks, Deploying Web Apps and Creating Web-Jobs, **Azure Windows server**, Microsoft SQL Server, Microsoft Visual Studio, Windows PowerShell, Cloud infrastructure.
* Strong knowledge of various **Azure** components like Virtual Network, Express Route, Traffic Manager, Load Balancer, **Azure Active Directory, Azure AD DS and Azure DNS .**
* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers and building/maintaining **Docker container** clusters managed by **Kubernetes** and managed **Kubernetes** charts using Helm packages.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like **GIT** and **Bitbucket** ,Subversion (SVN) on Linux platforms.
* Used **Ant/Maven** for building Java/J2EE Applications and experience in converting build.xml into pom.xml to build the applications using **MAVEN**.
* Extensively worked on **Jenkins** by installing, configuring and maintaining for continuous integration(CI) and for End to End automation for all build and deployments on JAVA and J2EE based applications.
* Experienced in creating jobs, **pipelines** in **Jenkins** also worked with different **Jenkins plugins** to integrate with **GIT**, **Build Tools, Chef, Ansible** for continuous deployments and **Docker** for containerization.
* Extensively worked on **Artifactory** and **Nexus** Repository Managers to deploy software built through **Jenkins** Build Jobs.
* Experienced in writing **Ansible playbooks** to automate the given processand **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications.
* Production experience in large environments using configuration management tools like **Chef, Ansible** and **Puppet** supporting **Chef Environment** with 500+ servers and involved in developing manifests. Developed **Chef Cookbooks** to manage systems configuration.
* Expertise in developing of **Chef recipes** through **Knife** command-line tool through **Ruby** scripts to create **Chef cookbooks** to manage systems configuration on **Chef Server** to initiate **Chef Nodes**.
* Experienced in developing **puppet** modules (blue prints) for installation, configuration and continuous integration (**CI**) using combination of puppet master, **GIT**, **Openstack** , **Vagrant** and **Jenkins**.
* Continuous Delivery setups with **Puppet** by creating manifest and maintain templates for different environments. Migration of shell scripts into **Puppet Manifests**.
* Created plan and deploy **Nagios** monitoring server environment and manage **Nagios** high availability.
* Experienced in Virtualization technologies like **VMware, Oracle VM VirtualBox.**
* Experienced in Installing Firmware Upgrades, **kernel patches**, systems configuration, performance tuning on **Unix/Linux** systems.
* Design Blue print for **Apache tomcat** as per guardian standards to implement apache tomcat as part of **AWS** automation on cloud as well as on premise based **RHEL** Operating system.
* Developed a POC log management & auditing framework using **Logstash**, InfluxDB, Grafana and the PCF logs are streamed to **Logstash** and parsed for extracting audit data.
* Extensive experience in Maintaining **scalable**, **redundant**, and replicate data systems including, but not limited to, **PostgreSQL, RDBMS**, **MySQL**, and various **NoSQL** databases like Cassandra and MongoDB.
* Assisted internal users of **Splunk** in designing and maintaining production-quality dashboard.
* System health & performance monitoring, troubleshooting, and remediation, including visualization tools such as **graphite, New Relic, Nagios/Icinga, datadog** etc.
* Experience on **Open stack,Dynamite, JFrog, App dynamics, Zabbix, Bitbucket, NoSQL like Redis.**
* Created and maintained complex **JIRA** workflows, including project workflows, field configurations, screen schemes, permission schemes, and notification schemes across all company teams.
* Proficient in Writing scripts to automate simple tasks **Python, Groovy, Ruby, bash, cURL.**
* Experience in Administration of Production, Development and Test environment's carrying Windows, Ubuntu (**RHEL**) **Red Hat** Linux and **CentOS** servers.
* Extensive working experience in agile environment and have a Full understanding of **SDLC** and process.
* Day-Day application support on production and technical documentation for critical production issues, on-call pager support 24/7 environment **.**

**Technical Proficiency:**

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| --- | --- |
| **SCM Tools** | GIT Hub, Subversion, TFS, Perforce. |
| **Build Tools** | Ant, MS Build and Maven, gradle |
| **CI Tools** | Jenkins, Bamboo, AnthillPro. |
| **DevOps tools** | Ansible Chef, Puppet, Docker ,Vagrant., Packer |
| **Cloud** | AWS, Microsoft Azure, Open Stack, Google cloud. |
| **Bug tracker & Testing** | JIRA, Bugzilla, Junit, NUnit. |
| **Project Management Tools** | Atlassian Tools, Base Camp, MS Project, MS Share point. |
| **SDLC** | Agile, Scrum Methodologies, Waterfall. |
| **Servers** | JBOSS, Apache Tomcat, Oracle Web-logic, IBM Web-sphere, IIS. |
| **Environment** | Eclipse, MS Visual Studio, Rational Application Developer. |
| **Languages** | C, JAVA/J2EE, PHP, HTML. |
| **Scripting Languages** | Shell Script, ANT Script, Python Script, Ruby Script Power Shell |
| **Platforms** | Linux, Ubuntu , Fedora, Windows, Server/NT/XP/Vista. |
| **Database Systems** | SQL, Oracle, PL/SQL, MS Access, DB2, Mongo DB, Cassandra. |

**Professional Experience:**

**Kemper Corp, Jacksonville, Florida. Nov 2016 - Present**

**Role: Sr. DevOps/AWS Engineer**

**Responsibilities:**

* Responsible as **AWS** and **DevOps** engineer in Automating, Configuring and deploying instances on **AWS**, **AZURE** Cloud environments and Data centers.
* Involved in **AWS EC2/VPC/S3/SQS/SNS** based automation through **Terraform, Ansible, Python, Bash Scripts**. Adopted new features as they were released by Amazon, including ELB & EBS.
* Written **Cloud Formation** Templates (CFT) in JSON and **YAML** format to build the AWS services with the paradigm of Infrastructure as a Code.
* Configure **ELK stack** in conjunction with AWS and using **LogStash** to output data to **AWS S3**
* DevOps role converting existing AWS infrastructure to Server-less architecture(**AWS Lambda**, **Kinesis**)deployed via **terraform**.
* Experience in Virtualization technologies like **VMWare**, **Vagrant** and worked with containerizing applications like **Docker, Kubernetes**.
* Create automation and deployment templates for relational and **NoSQL** databases including **MSSQL, MySQL, Cassandra and MongoDB in AWS.**
* Configuring, automation and maintaining build and deployment **CI/CD tools Git/ Git-Lab, Jenkins/Hudson, ANT, Maven, Build Forge, Docker-registry/daemon, Nexus and JIRA for Multi-Environment (Local/POC/NON-PROD/PROD**) with high degrees of standardization for both infrastructure and application stack automation in **AWS cloud platform**.
* Experience with container based deployments using **Docker**, working with **Docker images, Docker Hub** and **Docker-registries** and **Kubernetes**.
* Experience with setting up **Chef Infra, Bootstrapping nodes**, creating and uploading **recipes**, node convergence in **Chef SCM**.
* Created private cloud using Kubernetes that supports **DEV, TEST, and PROD** environments.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling **Kubernetes** **AWS** infrastructure and micro service container orchestration.
* Expertise in configuring the monitoring and alerting tools according to the requirement like **AWS Cloud Watch, AWS Cloud Trail, Dynatrace, Nagios, Splunk** Enterprise, SNMP monitoring for the VPN connections.
* Debugging **Chef Recipes** and their execution trying to pull logs into **Splunk** and monitor deployments.
* Automated the cloud deployment using **Chef, Python** and **AWS Cloud Formation** Templates. Used Chef for unattended bootstrapping in AWS.
* Installed and Implemented **Ansible** configuration management system. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (Ansible) and experienced in writing **Ansible scripts.**
* Experienced in configuring **Cloud platform** such as Virtual Networks Multi-site, Cross-site, VMs, **Azure AD, Load Balancers, Azure SQL, Cloud Services**, etc.
* Established connection from **Azure to On-premise** datacenter using **Azure** Express Route for Single and Multi-subscription connectivity.
* Design, install, administer, and optimize hybrid cloud components to ensure business continuity (i.e. **Azure AD, ADFS, SSO & VPN Gateways)**
* Deployed **Azure** **IaaS** virtual machines (VMs) and Cloud services (**PaaS** role instances) into secure VNets and subnets.
* Leveraged "**Azure Automation**" and **PowerShell, Chef and Ansible** to automate processes in the **Azure Cloud**
* Implemented and maintained Ansible Configuration management spanning several environments in Vrealize and the **AWS cloud**.
* Configured Subclipse (Subversion plugin for Eclipse) and trained developers to utilize its various features Extensively used Ant, Maven, Perl and Bash Scripts for automating build and release tasks.
* Integration with **Splunk** for **API** traffic monitoring and health checks.
* Played a key role in converting 600+ existing **Jenkins jobs** into the new pipeline process.
* Prepared document on process of migrating **Jenkins jobs** from development environment to production server.
* Created **Chef Cookbooks** and wrote recipes in **Ruby Script** to install and configured Infrastructure across environments and automated the process using **Python Script**.
* Involved in Setting up **Chef Workstation**, boot strapping various enterprise nodes, setting up keys.
* Created **Puppet Manifests** to provision **Apache Web servers**, **Tomcat servers, Nginx, Apache Spark** and other applications.

**Environment**: Redhat Linux 7.x, AWS, AZURE, Chef, Puppet, Docker, Ansible, Jenkins, Kickstart, Jumpstart, Terraform, Kubernetes, ANT, Maven**,**Ruby, Shell, Python, WebLogic Server 11g, Load Balancers, WLST, Apache Tomcat 7.x, Virtualization, Configured plug-ins for Apache HTTP server 2.4, Nginx, LDAP, JDK1.7, XML, SVN, GitHub, Nagios, Splunk**.**

**Eaton Corporation, Galesburg , Michigan Jan 2016 – Oct 2016**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

* Responsible for day-to-day management of all **Development, Test, Stage, and Production** for various enterprise applications.
* Troubleshooting and monitoring of various proprietary Acxiom and Third-party applications using **Splunk** and **Cloud Watch** in the **Amazon Web Services** (AWS) environment.
* Experience in Automating, Configuring and deploying instances on **AWS** and **Azure** **Cloud** environments.
* Designed **AWS Cloud** Formation templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates.
* Virtualized the servers on **AWS** using the **Docker**, create the **Docker files** and version control to achieve **Continuous Delivery** goal on high scalable environment, used Docker coupled with load-balancing **Nginx**.
* Responsible for setting up **Chef Infra, Bootstrapping nodes**, creating and uploading **recipes, node** convergence in **Chef SCM.**
* Written **Chef Cookbook, recipes** to automate installation of **Middleware Infrastructure** like **Apache Tomcat, JDK** and configuration tasks for new environments etc.
* Written **cookbooks** for Web Logic, JDK , and **Jenkins, Tomcat, JBoss** and deployment automation. **.**
* Managed **Amazon instances** by taking **AMIs** and performing administration and monitoring of the **Amazon instances** like **EC2** using **Amazon CloudWatch** **and Nagios, Splunk**.
* Implemented **Azure Sql** Server for storing the data related to the recruitment and extensively worked on queries and stored procedures.
* Troubleshooting Issues related to Cluster deployments.
* Managing Cluster nodes for Physical issues and escalating issues to respective vendors.
* Working knowledge on **Azure cloud IaaS and PaaS Services, Azure SQL, Azure storage and Azure Services.**
* Setting up private networks and sub-networks using **Virtual Private Cloud (VPC)** and creating security groups to associate with the networks.
* Design roles and groups using **Azure** Identity and Access Management (IAM)
* Used **MCollective**, **Facter, Hiera** frameworks to amend the automation pipeline built around **Puppet.**
* Developed automation scripting in **Python** (core) using **Puppet**to deploy and manage **Java applications** across **Linux servers**.
* Created and updated Puppet manifests and modules, files, and packages stored in the **GIT repository**.
* Writing various **puppet** manifests files with **Hiera** and customized functions and defined resources
* Scheduled the **Linux Cron** jobs and **Jenkins** jobs for build automation. Developed **Perl** and **shell** scripts for automation of the **build** and release process.
* Deployed and troubleshoot of various **Jenkins** issues. Installed and uninstalled, upgraded and downgraded various **plugins in Jenkin.**
* Assisted developers with establishing and applying appropriate **branching, labeling** conventions using **GIT source control.**
* Maintained build related scripts developed in **shell** for **Maven builds**. Created and modified build configuration files including **POM.xml**.
* Good experience in converting **build.xml** into **pom.xml** in order to build the applications using **MAVEN.**
* Maintain build related scripts developed in **ANT, Ruby,Shell and Python**.
* Setup a **Jumpstart/Flash** and **Kickstart servers** for provisioning of servers with different profiles.
* Installation of **Red Hat EL 4.x, 5.x** using **Kickstart** and **PXE** on **HP DL380 G3**
* Performed backup and administration activities for **SVN/GIT branching, merging, tagging.**

**Environment**: AWS, Azure, Chef, Puppet, Jenkins, Maven, ANT, Ruby, Shell, Python, WebLogic Server, Load Balancers, WLST, Apache Tomcat, Docker, Virtualization, Configured plug-ins for Apache HTTP server, Nginx, LDAP, JDK, XML, SVN, GitHub, Cloud watch, Splunk, Nagios.

**Kastech Software Solutions, Hyderabad July 2014 – December 2015**

**Role: DevOps/Cloud Engineer**

**Responsibilities:**

* Involved in migrating physical **Linux** servers to cloud (**AWS**) and test it.
* Designed an Architectural Diagram for different applications before migrating into **amazon** cloud for flexible,

cost-effective, reliable, scalable, high-performance and secured.

* Build servers using **AWS**: Importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling,
* load balancers (**ELB**s) in the defined virtual private connection.
* Automating backups by **shell** for **Linux** to transfer data in **S3 bucket**.
* Built **Chef** Development workflow and best practices around configuration management as well as building

a strong and diverse internal Chef community.

* Creating alarms in Cloud watch service for monitoring the servers performance, **CPU** Utilization, disk usage

etc.

* Experience modeling data in and deciding application paradigms using Postgre**SQL** and **NoSQL.**
* Maintaining the user accounts (IAM), RDS, Route 53, **SES** and SNS services in **AWS cloud**.
* Operational reporting (SLA reporting, SLA metrics)
* **AWS** Import/Export accelerates moving large amounts of data into and out of **AWS** using portable storage devices for transport.
* On-call support for 24/7 for troubleshooting production issues.
* Documenting all the processes for above, issues caused and its solutions in timely manner.
* Installation, configuration and administration of **Linux (Redhat/SUSE, Centos**)
* Well knowledge in **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies with **Jenkins**,**AnthillPro**.
* Configuring network services such as **NFS/NIS/NTP** for **UNIX/Linux Servers**.
* Experience in analyzing and monitor performance bottlenecks and key metrics in order to optimize software

and system performance.

* Setting up **UNIX/Linux** environments for various applications.
* Creating a change requests, work orders and problem tickets using **BMC** Remedy tool and getting approvals

from higher officials.

* Scripted **Linux repository** database comparisons using **Python**.
* Deployed **VPC** with **VPN** attachment to physical datacenter.
* Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high

degree of automation using **Chef, Vagrant, Jenkins, and cloud Formation**.

* Understanding of Software Development Life Cycle, Test Driven Development, Continuous Integration and

Continuous Delivery.

* Designed and built a **continuous integration** and deployment framework for **Chef Code** using test driven development.

**Environment**: AWS Cloud, Redhat Linux, AIX and Windows, BMC Remedy, Chef, Shell, Python, WebLogicServer 11g, IBM WebSphere MQ , F5 BIG-IP Load Balancers, WLST, Apache Tomcat, Configured plug-ins for Apache HTTP server, Nginx, Active Directory, JDK, XML, Oracle, SVN, GitHub

**Systel Technology Private LTD, Hyderabad, India Mar 2013 – June 2014**

**Role: DevOps Engineer**

**Responsibilities:**

* Responsible for Design of different Release Environments for new projects and monitoring.
* Involved in DevOps migration/automation processes for build and deploy systems.
* Implementing a Continuous Delivery framework using **Bamboo, Chef, Maven and Nexus in Linux environment.**
* Configured Project Server with Team Foundation Server (TFS) to synchronize task/work item tracking process
* Worked extensively with **Nagios** monitoring system as well as other monitoring tools.
* Experienced in installation of software tools in a **DevOps** Environment.
* Implemented and maintained automated tools which support **DevOps** processes.
* Performed **DevOps for Linux, Mac and windows** platforms.
* Maintain and enhance current **build** procedures for all software development projects.
* Mange **build** and **deployment** using **Maven, Jenkins, SCM tools**
* Installed, administration, maintenance, and support of **Jenkins.**
* Managed **MAVEN** project dependencies by creating parent-child relationships between projects.
* Good understanding of building the Android Applications using the **Maven and Jenkins**.
* **JENKINS** is used as a continuous integration tool for automation of daily process.
* Experienced in designing, building and maintaining an automated build and release environment.
* Responsible for designing and deploying best **SCM** processes and procedures.
* Maintain build system and automate build process for different applications.
* Troubleshoot and resolved **Build failures** due to infrastructure issues reduced by 95% stabilizing the **Build process**. Setup and executed process to code review system effectively.
* Responsible for defining branching & merging strategy, check-in policies, improving code quality, automated Gated Check-ins, defining backup and archival plans.
* Troubleshoot **Build and Deployment** Issues, with little downtime.
* Documented release metrics, software configuration process. Used **Maven** scripts to build the source code. Supported and helped to create **Dynamic Views** and **Snapshot views** for end users.

**Environment:** Auto scaling groups, Bamboo, Chef, Maven, Nexus, Nagios, yum, rpm. Linux, Mac, Unix, Windows, Chef, Puppet.

**SKB Technologies, Hyderabad, India Sep 2011 – Feb 2013**

**Role: Build Engineer**

**Responsibilities:**

* Management of Customer Requirements and documentation of the Project Plan as per the requirements.
* Experienced in working with **CVS** environment and configuring the version tool for the project development.
* Installation and customization of rational tools like **Clear Case** and **Clear Quest**, support and maintenance of these tools.
* Created and enforced Configuration Management policies and procedures, project configuration management, adhere to the Company policy, was successful in implementing it.
* Customized **TFS** 2010 Work Item Templates and Workflow of the Work Items.
* Involved in the product release activities, including Change Control Management, Release Management, Defect tracking using **Clear Quest** tool and **Version** Management using **CVS** tool.
* Developed and build and deployment standards with input from development, IT/operations, and IT security.
* Installed **Jira** and **Confluence** on **Tomcat server**.
* Evaluated build automation tools (**Open Make and Anthill Pro**), recommended **Anthill Pro.**
* Configured and deployed **Anthill Pro** in Solaris 10 environment with multiple zones/containers, using Oracle database and multiple CVS servers and repositories. Configured services using SMF and XML.
* Completing software builds and elevations, creating directories and security groups, and recreating prior versions. Monitored software, hardware, and/or middleware updates and utilizing technologies like **Hudson, Ant** and **MS Build.**
* Initiating other CM users for developing the product, regular communication with the team members and documenting their duties.
* Diagnosing and solving Configuration Management issues related to defect tracking and version management, also involved in migration within Version tools like **CVS** and **Clear Case.**
* Researched and implemented code coverage and unit test plug-ins with **Maven/Hudson**.
* Configured and maintained **Hudson** to implement the CI process and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Script writing by using **Shell** (Korn& Bourne) and knowledge skills in **ANT** and **Perl**.
* Installation and configuration of CM related software in **UNIX** and Windows environments, using **UNIX** commands and Windows Navigation.
* Team activities other than work related, in the process of Initiation and encouragement were done.

**Environment:**Rational Clear Case, Rational Clear Quest, TFS, Hudson, Maven, Jira, UCM, SQL, J2EE, Puppet Shell, Perl, ANT, Anthill-Pro, UNIX, Windows NT/2000..

**Sunrise Web Solutions, Rajahmundry, India Sep 2009 - Aug 2011**

**Role: Linux Administrator**

**Responsibilities:**

* Installation and Configuration of **Linux** and **Window Servers**.
* Monitoring &amp; troubleshooting Network, Linux and Windows servers.
* Managed and optimized Net Backup clients, media servers and clients in an enterprise environment.
* Familiarity with Internet Technologies including TCP/IP, HTTP and DNS.
* Create and maintain complete documentation of all equipment including location, hardware, software and

configurations.

* Manage Logical Volume Manager (**LVM**)
* Installation and configuration of **RedHat Linux** on **VSphere** and **VMware ESX**.
* Configuration like assigning IP addresses, configuring network interfaces, assigning static routes, hostnames

etc.

* Experienced in DNS, NIS, NFS, NSLookup, Snoop FTP, NIS, Samba Server, LDAP, remote access, security

management, and system troubleshooting skills.

* Configured LDAP clients on server test and troubleshoot for maintaining network and data security.
* Installed and configured of Solaris and **Linux servers** using **JUMPSTART** and **KICKSTART** installation and

periodic Patch Upgrading using live upgrade.

* Analyze and create daily reports on the status of server backups on intranet and extranet.

**Environment:** RHEL, LDAP, Web logic, LVM, VMware ESX, TCP/IP, HTTP, DNS.

**Education:** Master’s in Information Technology from Atlantis University.