# Experience Summary

Having 6+ years of experience in design, develop, Implement & maintenance of enterprise infrastructure using **AWS, Jenkins, Redhat Enterprise Linux, Chef, Ansible, Terraform, Docker, Kubernetes, Git, Python, Groovy, Nagios & Prometheus** in an **agile /Devops** working environment.

* Expertise in developing high-availability, fault tolerant and auto-scaling solutions using Amazon Web Services (**VPC, EC2, Cloud formation, S3, IAM, EKS, Route 53, CloudWatch, CloudTrail, Elasticache, RDS & DynamoDB** etc.).
* Created **CloudWatch, Grafana** dashboards to monitor resources (CPU, Memory, EBS Volumes, EC2 & RDS instances) and setup SNS alerts or perform automated corrective actions.
* Experience in building and implementing infrastructure as code, automated provisioning and configuring of AWS infrastructure using **Chef** and **Ansible**.
* Experience in configuring and managing user accounts, roles, security groups in **AWS IAM**.
* Proficient in automating recurring system administration processes into scripts using **bash shell**, **python**, **Jenkins** for managing both on premise and public cloud servers.
* Design and Develop **chef** cookbooks and **Ansible** playbooks to build and manage web application server infrastructure for **apache, tomcat, Jboss** **EAP**, Wildfly following **TDD** practices.
* Extensively used **Jenkins** to streamline CI/CD process using pipelines to build, deploy, test and deliver artifacts to target (development, integration, QAT, UAT and prod) environments ensuring zero downtime and shortened deployment cycles
* Experience in building **Jenkins** pipelines as code for delivering **chef** cookbooks and **Ansible** playbooks integrating syntax checking, static code analysis, automated testing to chef server or through Ansible tower.
* Experience in setting up monitoring dashboards and configuring alerts using **Prometheus, grafana, Splunk**, **Dynatrace** and **Nagios**.
* Knowledge in **Agile** Development Methodologies, **SCM** processes, **Chaos** engineering, **ITIL** frameworks, **SRE** practices and **Devops** culture.
* Highly motivated, organized with ability to multi-task, team player, anticipate and fix problems proactively using best practices, maintaining a high degree of proficiency.

**Professional Skills**

| **Expertise Area** | **Software Tools** |
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| **Operating Systems** | **RHEL Linux 6/7, Centos 6/7,Ubuntu(14/16)** |
| **Cloud & Container Tech** | **AWS (VPC, EC2, S3, Cloud formation, CloudWatch, RDS, ElastiCache, IAM, Dynamo DB), Docker, kubernetes** |
| **Configuration Mgmt. Tools** | **Chef, Ansible, Terraform, Ansible Tower** |
| **Web & App Servers** | **Apache 2.4, HAProxy, Tomcat 7/8, Wildfly, Jboss EAP 6/7** |
| **Build & Repository Tools** | **Jenkins, GitLab, Maven, Gradle, Subversion, Git, Artifactory, Nexus** |
| **Databases** | **Oracle 11g/12c ,MySQL 5,Dynamo DB, Redis, Mongo DB** |
| **Languages/Scripting** | **Java, Ruby, Python, Bash, Groovy, SQL,XML,YAML** |
| **Monitoring Tools** | **Prometheus, Grafana, Splunk, Nagios, Dynatrace ,Sitescope** |
| **Agile Frameworks** | **Scrum, Kanban, XP** |
| **Other Tools** | **Vagrant, Virtual Box, Jira, Eclipse, IntelliJ, Visual Studio Code, Atom, Fortify, Sonar cube, Confluence, ServiceNow, Hipchat, Slack.** |

**Certifications**

**AWS Certified Developer**

**LPI – Linux Essentials (lpi.org/v/LPI000403465/etnnsfa3a9)**

**Education**

**Bachelor’s in Commerce(Computers) from S.V University (2012)**

**Professional Experience (Reverse chronological)**

**HealthPartners, Bloomington, MN Jan 2017 – till date**

**Role: Cloud Engineer**

**Responsibilities:**

* Worked on converting design into infrastructure code developing solutions using **AWS (VPC, EC2, S3, ELB, EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail**) using orchestration tools **Jenkins, Terraform, Ansible & chef**.
* Worked in setting up multiple **VPC’s, NAT gateways, security groups, network ACL’s, internet gateways** and route tables to ensure a secure zone for organization in AWS public cloud.
* Worked in Creation and configuring Elastic load balancers and auto scaling groups to distribute traffic in a cost efficient, fault tolerant in a highly available environment.
* Worked on setting up dashboards for monitoring server infrastructure and **SNS** alerts for corrective actions or notifications using **CloudWatch service, Splunk, Prometheus & Grafana.  sdA**
* Created S3 Buckets to store files for serving static content for web applications.
* Configured S3 Buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirements.
* Experience in creating and launching EC2 instances using AMI’s of Linux (Amazon, RHEL, SUSE, Ubuntu).
* Creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources in IAM
* Implemented domain name service (DNS) through route 53 for highly available and scalable applications.
* Created **EBS** volumes for storing application files for use with EC2 instances.
* Experience in creating **RDS** database instances, configured snapshots to take backups of volumes and images to store launch configurations of the EC2 instances.
* Scripted Templates for AWS infrastructure as a code using **Cloud Formation / Terraform** templates to build staging and production environments.
* Worked on creating **EKS** cluster to deploy containerized applications built using **Docker** and setup pipelines in Jenkins to deploy applications integrating **Linux base images** and **Tomcat** server.
* Managed Chef Cookbooks or Ansible playbooks for installing **Apache, PHP, Tomcat, Jboss EAP & Wildfly** delivered through pipelines to **Chef server** or **Ansible Tower**.
* Build Automation process implementation using Jenkins along with Python and Shell scripts to automate routine administrative tasks reducing manual intervention.
* Implemented **Continuous Integration and Continuous Delivery** using Jenkins and GIT from scratch building custom pipelines running automation tests.
* Install, Configure and Manage Jfrog **Artifactory** repository tool and configure to use as chef supermarket and Ansible galaxy as local repository and remote caching proxy repo.
* Used **confluence** for creating content and **Jira** for issue management and **Agile/Scrum** Tool.
* Used **ServiceNow** for managing Incidents, Requests, problems and integrated change processes with Jenkins for standard changes.

**Environment**: **AWS (VPC, EC2, S3, ELB, EBS, RDS, IAM, EKS CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail), GIT, MYSQL, AWS CLI, Enterprise Linux (Amazon, Redhat, SUSE), Ruby, Shell scripting, Jenkins, GitLab, Artifactory, Jira, Hipchat, Slack, fortify, Sonar cube, Chef, Terraform,Ansible, kubernetes, Docker, Prometheus, Splunk, Grafana, Apache, Tomcat, Jboss EAP, WebLogic Server.**

**Optum, Minneapolis, MN Feb 2016 – Dec 2016**

**Role: Devops Engineer**

**Responsibilities:**

* Rapid-Provisioning of **AWS EC2** instances and **Configuration Management** for Enterprise Linux using **Chef** and **Cloud Formation Templates** on **Amazon Web Services.**
* Automate creating AWS components like **EC2 instances, Security Groups, S3, ELB, RDS, IAM through Cloud Formation templates.**
* Worked on creating load**-based Auto scaling** to increase capacity at peak times and reduce the costs at off-peaks times for production infrastructure.
* Setup **Kubernetes** to deploy scale, load balance and manage Docker containers with multiple name spaced versions for development, test and production environments
* Configured **Continuous Integration** and **Continuous Delivery** build pipelines in Jenkins to create Containers for the application, virtualized servers using **Docker** for the development, test and prod environment needs.
* Configured **Docker Trusted Registry(DTR)** to store and distribute images used in Jenkins workflow to deploy applications to kubernetes.
* Managed cookbooks and recipes to setup **kubernetes, Docker** on **AWS instances** building Jenkins workflow performing integrated tests and upload to chef server.
* Worked on **Chef-best practices** and using **Berkshelf & Test Kitchen** to facilitate a more natural cookbook development work-flow.
* Configure dashboards in **Dynatrace** to monitor server and application health in Kubernetes.
* Use **GITLAB** as a Version Control with GIT branching strategy that included develop branches, feature branches, staging branches and master. Pull requests and code reviews were performed.
* Worked with **Agile/Scrum** methodology to deliver quality work in bi-weekly sprints.

**Environment**: **AWS (ELB, Cloud Formation, IAM, S3, Cloud Watch, Cloud Trail) Jenkins, Gradle, Chef, Ruby, GIT, GitLab, Sonar cube, Enterprise Linux (Redhat, Centos, SUSE), Dynatrace, kubernetes, Docker, Apache, Tomcat, JIRA**

**BestBuy, Richfield, MN May 2015 – Nov 2015**

**Role: Devops Engineer**

**Responsibilities:**

* Configured **Identity Access Management (IAM)** user accounts, roles, security groups for improved login authentication.
* Created **S3** buckets, performed folder management in each bucket, managed **CloudTrail** logs and objects within each bucket.
* Integrated **CloudTrail** with EC2 instances for monitoring the log files & track metrics.
* Configured **Elastic Load Balancers** with EC2 Auto Scaling groups.
* Configured **S3** to host static web content, versioning and lifecycle policies to setup, backup files and archive files in Glacier
* Setup monitors, alarms and notifications for prod EC2 instances using Cloud Watch.
* Managed **Jenkins** installs, upgrades, administrated user management and plugins
* Configured **Jenkins** integration with GIT Repositories for continual builds with developer code commits as well as generate daily change log reports for individual projects.
* Create alerts and dashboards for non prod environments using **Nagios**.
* Install, Configure and Manage **Nexus** artifactory repository tool.

**Environment**: **AWS services (EC2, S3, ASG, ELB, SNS, SQS, Cloud Formation Templates, RDS, Cloud Watch, IAM, Cloud Trail), Enterprise Linux, Jira, Nagios, Nexus, Git, Apache Tomcat, Jenkins.**