A blue hexagon with white text

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Sri Raam

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DevOps Engineer

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**Professional Experience:**

* 10+ years of IT experience and gained expertise in systems - Windows and Unix administration and transformed traditional environments to virtualized environments with AWS - EC2, EBS, S3, Load Balancing, VMWARE.
* Expertise on core AWS services (S3, EC2, ELB, Route 53, VPC, auto scaling), deployment services (Opsworks and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).
* Managed GIT repositories for branching, merging, tagging and integrating GIT into Jenkins to automate the code check-out process.
* Experience of creating VPC's using Terraform for initial CIDR blocks and subnet ranges with Security compliant Security groups.
* Experience with version control technology like Git and Bitbucket.
* Extensive experience using MAVEN and ANT as build tools for the building of deployable artifacts
* Strong experience with AWS IAM service in creating IAM users &amp; groups, defining roles and policies and Identity providers, working with other teams consistently providing them customer service and helping them in integration with IAM and as a part of Integration Team worked on DevOps on AWS.
* Proficient in building deployable Artifacts (War, Jar, Ear, Zip, Tar) from source code and maintained by using Maven (Pom.xml), Ant (Build.xml) and Gradle (Build.gradle) and worked with Groovy Scripts to automate configuration in Jenkins.
* Use of Docker and OpenShift to manage micro services for development and testing, and deployments to multiple servers in testing and production environments using Jenkins, Git and Docker.
* Managing security groups on AWS, focusing on high-availability, fault tolerance, and auto-scaling using Terraform templates. Along with CI/CD with AWS Lambda &amp; AWS code Pipeline.
* Extensively worked on Chef Roles, Cookbooks, Recipes, Templates, Resources, Attributes &amp; Data bags. Proficient in the setup of Chef Servers, workstations &amp; bootstrapping infrastructure Chef Nodes for configuration management.
* Worked in an Agile development team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using tools like Chef, VSTS and Jenkins.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Strong experience with AWS IAM service in creating IAM users &amp; groups, defining roles and policies and Identity providers, working with other teams consistently providing them customer service and helping them in integration with IAM and as a part of Integration Team worked on Dev0ps on AWS.

**Technical Skills:**

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| --- | --- |
| **Operating Systems** | UNIX, Linux, Windows, Solaris, Ubuntu |
| **Containerization Tools** | Docker, Kubernetes, Mesos, Openshift |
| **Virtualization Platforms** | Virtual Box, Vagrant, VMware |
| **Configuration management** | Chef, Puppet, Ansible |
| **CI and Build Tools** | Jenkins, Hudson, Bamboo, ANT, Maven |
| **Application/Web Servers** | Oracle Weblogic Server 11g, Apache Tomcat, Oracle Application Server 10g BEA WebLogic 8.1/9.2, WebSphere, JBoss, Tomcat, IIS |
| **Scripting & Programming Languages** | Bash, Perl, Ruby, Shell, Python, HTML, PHP, Java/J2EE, .Net, Groovy, JSON, Node.Js, Powershell, GO |
| **Cloud platforms** | AWS, Azure, PCF, Open stack |
| **Logging & Monitoring Tools** | Splunk, ELK, Nagios, Grafana, Filebeat |
| **Databases** | Oracle 10g/11g, Mongo DB, MySQL, SQL, NOSQL |
| **Version Controls** | Subversion, Git, GitHub, GitBucket |
| **Networking** | LDAP, DNS, FTP, DHCP, SSH, TCP/IP, NFS |
| **Issue Tracking Tools** | Jira, Remedy, Clear Quest |

**Professional Experience:**

**Wells Fargo, Charlotte, North Carolina**

**Sr. DevOps / Cloud Engineer March 2021 - Present**

**Key Responsibilities:**

* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Autoscaling groups, Optimized volumes and EC2 instances.
* Worked with Development teams to adopt more ownership of systems and troubleshooting issues
* Supporting engineering plans and schedules by providing CM/Release Engineering services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to the engineering team.
* Wrote Bash, python, and Perl scripts for day-to-day administrative tasks and for managing users.
* AWS IAM to securely control users' access to AWS services and resources by enforcing granular permissions, controlling share access to AWS accounts, applying multi-factor authentication, and enabling identity federation.
* Leveraged AWS cloud services such as EC2. Auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Configuring and Networking of Virtual Private Cloud (VPC) Written Cloud formation templates and deployed AWS resources using it.
* Created branching & tagging strategy to maintain the source code in the GIT repository and coordinated with developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.
* Deployed several Java/J2EE, .NET applications, IIS, SQL Server, and App Services to the cloud provided

servers like AWS and Azure by using Puppet modules.

* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Responsible for building/deploying consistently repeatable build/deployments to company production and non-production environments using JENKINS and BUILD Pipelines, ANT, MAVEN. Deployed Java/J2EE applications to WebLogic server using Jenkins builds. Automate Continuous Build and Deploy Scripts for Jenkins Continuous Integration tool.
* Created Migration documents and deployment guides for end user so that user can easily walk through and deploy the code without any issue
* writing Bash and Python scripts, Included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMI’S and Scheduling Lambda functions for routine AWS tasks.
* Implemented a Kubernetes Container Orchestration solution within AWS leveraging KOPS, which allows easy management creation and recovery of AWS assets.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Deployed applications on AWS by using Elastic Beanstalk.
* Configured plugins for the integration tools to the version control tools.

**BCBSIL, Chicago, IL**

**Cloud Engineer June 2019 - Feb 2021**

**Key Responsibilities:**

* Build environment within AWS using EC2 instance creation, Route 53 DNS routing, Cloud Watch alarming, Virtual Private Cloud setups, AWS Elastic Load Balancing, Auto Scaling groups.
* Set up AWS Security Groups which behave as Virtual firewalls controlling the traffic by allowing it to reach one or more AWS EC2 instances.
* Setting up private networks and sub-networks using Virtual Private Cloud (VPC) and creating security groups to associate with the networks.
* Configured Elastic Load balancer (ELB) including high availability of ELB using
* various subnets in various availability zones, configured security settings and health

check for application.

* Created and monitored alarms, notifications for EC2 instances using Cloud Watch.
* Created customized AMIs based on already existing AWS EC2 instances by using
* created image functionality, hence using this snapshot for disaster recovery.
* Automated various infrastructure activities like continuous deployment, application server setup, stack monitoring using Ansible playbooks.
* Managed a Python-based application and created an architecture using the BOTO3 framework integrating it with Amazon Aurora for HA and DR.
* Configured Jenkins to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Deployed several Java/J2EE, .NET applications, IIS, SQL Server, and App Services to the cloud provided

servers like AWS and Azure by using Puppet modules.

* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created theEC2 instances to provide the virtual servers.
* Created Jenkins jobs to listen for changes in GIT and execute the sequence of targets including

compile, junit, create jar and war file and created Jenkins Pipelines with Jenkins File triggering the Remote Jenkins Jobs.

**Dish Networks, Denver, Colorado**

**Cloud Engineer August 2017 - May 2019**

**Key Responsibilities:**

* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created theEC2 instances to provide the virtual servers.
* Created customized AMIs based on already existing AWS EC2 instances by using create image functionality, hence using this snapshot for disaster recovery.
* Hands on experience for Application High availability setup and integrated GIT with Jenkins using the GitLab plugin to automate the process of source code check-out by providing the URL and credentials of the GIT repository.
* Managed a Python-based application and created an architecture using the BOTO3 framework

integrating it with Amazon Aurora for HA and DR.

* Developed Perl and shell scripts for automation of the build and release process.
* Troubleshooting all issues raised by version control users and creating knowledge base documents.
* Performed all necessary day-to-day GIT support for different projects and Responsible for design and maintenance of the GIT Repositories, views, and the access control strategies.
* Worked on implementing AWS Disaster Recovery implementation using Backup and Restore using AWS Services (AWS Route53, ELB, CloudWatch).
* Prototype CI/CD system with GitLab on GKE utilizing Kubernetes and Docker for the runtime environment for the CI/CD systems to build, test and deploy.
* Responsible for continuous integration (CI) and continuous delivery (CD) process implementation-using Jenkins along with python and shell scripts to automate routine jobs.
* Responsible for Automating Java Builds with Maven. Implemented multiple plugins for Code analysis, Junit, Code coverage, SonarQube etc.
* Build scripts on AWS cloud for scheduling EC2 auto scaling load balancer with python SDK.
* Working closely with Architecture, Development, Test, Security and IT Services teams.

**Amex, Phoenix, AZ**

**Devops Engineer April 2015 - July 2017**

**Key Responsibilities:**

* Built EAR and WAR files with custom configuration settings using Maven Tool Kit and further developed Ansible.
* Managing the continuous integration environment using Jenkins.
* Playbooks to pull the Artifacts stored in Nexus to continuously deploy the archives on to Apache Tomcat Web Server, IIS Servers and WebSphere Application Servers.
* Worked on web servers like Apache and application servers like Web logic, Tomcat, WebSphere, JBOSS to deploy code and integrate with Jenkins (CI) for End-to-End automation for all build and deployments.
* Developed Python and Shell scripts for automation of the build and release process.
* Wrote JUnit test cases for unit, integration, and functional tests, run automatically by Hudson/Jenkins in the builds triggered by each push to GIT.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Worked on Puppet extensively for deployment for servers, creating on custom scripts and managing change through Puppet master server on its clients.
* Used Puppet Master to keep in sync configuration on hosts running agents.
* Worked on GIT which includes creating new users, Branching, Merging the changes and writing some pre-commit & post-commit hook scripts.
* Created continuous integration system using ANT, Jenkins, Puppet full automation, Continuous Integration, faster and flawless deployments.
* Implemented rapid provisioning and life cycle management for Redhat Linux using kickstart
* Build and deploy enterprise-level applications in .NET, JAVA and SAP
* Maintained a large deployment of database servers on a variety of complex and differing technologies.
* Provided and designed tools to assist in the management of the database and transaction processing environment.
* Installed Puppet client software on RHEL 6.x servers and established a communication between master and client through SSL certification.

**Honeywell Technology Solutions, Bangalore, India**

**System Administrator Sept 2012– Feb 2014**

**Key Responsibilities:**

* As a System Administrator I am responsible for virtualization, using VMware ESX server 3.5, 4.0 VMware workstation virtualization suite.
* Involved in complete Administration tasks on Red Hat Linux and documentation for the projects executed.
* Responsible for managing more than 600 Linux servers through virtualization.
* Developed bash shell scripts to automate routine activities.
* Performed volume management using LVM and the creation of ext3 file systems. Created and Cloned Linux Virtual Machines.
* Involved with Kernel tuning, writing Shell scripts for system maintenance &amp; file management.
* Developed Python scripts for automation of the configuring Linux servers and run data path tests.
* Collaborate on monitoring and troubleshooting Servers using various third-party tools like Nagios.