**Hemanth Javvaji**

**Sr. DevOps Engineer**

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**BACKGROUND SUMMARY:**

* Certified **AWS DevOps Engineer** with over 9+ years of experience in **Automating**, **configuring**, and **deploying** instances on cloud environments and Data Centers, involved in the areas of **Automation**, **CI/CD pipeline**, **Build and release management**, **AWS**, **AZURE Implementation**&**DevOps practice**.
* Experience in several **AWS Services** including **EC2**, **VPC**, **IAM**, **S3**, **RDS**, **ELB**, **Route 53**, **Cloud Watch**, **Cloud Formation Templates**, **Cloud Front**, **Cloud Trail**, **AWS CDK**, **ALB/NLB Load Balancers**, **AWS inspector** and administering them using **AWS Console** and **AWS Command-line Interface**.
* Good experience on **version control systems** like **Subversion**, **GIT** and **Source code management** client tools like **GIT Bash**, **GIT Hub**, **GIT GUI**.
* Excelled in developing **CD pipeline** with **Jenkins**, **Ant**, **Maven**, **Docker**, **GIT Hub** and **AWS AMI’s**.
* Hands-on experience in **Terraform** for building, changing, and versioning of Infrastructure and wrote Templates **AWS infrastructure** as a code using **Terraform** to build staging and production environments.
* Managed **security groups** on **AWS**, focusing on high-availability, fault-tolerance, and auto-scaling using **Terraform templates**.
* Experience in **Deploying**&**monitoring Microservices** on platform **AWSECS**, **Kubernetes**.
* Hands-on experience with **Spinnaker** for Continuous Deployment with **Kubernetes**.
* Experienced with setup, configuration and maintain **ELK stack** (**Elasticsearch**, **Logstash** and **Kibana**).
* Experience in middleware tools like **JBOSS**, and **WebLogic** and **WebSphere Application servers**.
* Deployed application, which is containerized using **Docker** onto a **Kubernetes cluster**, managed by **Amazon Elastic Container Service for Kubernetes (EKS)**.
* Implemented code coverage & security scanning tools like **SonarQube**, **Veracode**, **Qualys** as part of **CI/CD pipeline**.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD system** to build, test deploys.
* Extensively worked on **CI/CD pipelines** using **Azure DevOps**, **VSTS**, and **TFS** in both cloud and on-premises with **GIT**, **MS Build**, **Docker**, and **Maven** along with **Jenkins** plugins.
* Worked with **Version Control**, **Build & Release management**, and deployments of the solutions to the **DEV, QA & PROD Environments** leveraging **Azure DevOps/VSTS** principles/process (**CI/CD**) and toolsets of **Visual Studio**, **AKS (Azure Kubernetes Service)**, **Application Insights**, **Log Analytics**.
* Developed microservice onboarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Extensive experience in Automation of scripting using **BASH/Shell**, **python**, Building, Deploying, and Releasing of code from one environment to other environments and implementation of **Continuous Integration, Continuous Delivery, Continuous Deployment** and **DevOps** processes for Agile projects.
* Installation, Configuration and Management of **RDBMS** and **NoSQL tools** such as **Dynamo DB**, **MongoDB**.
* Written **Chef Cookbooks**, recipes to automate the installation of Middleware Infrastructure like configuration tasks for new environments such as **QA/Dev/Stage/Production**.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the **JIRA bug/issue tracker**.
* Designed **User Interface applications**, testing and documentation of web-based applications using **Java**, **HTML5**, **CSS**, **Bootstrap**, **JavaScript** and **Node.js**.
* Gathered client requirements and converted them into the technical specifications and developed web forms using **C#.NET**.
* Used **C#.NET** as language to develop code behind business logic.
* Modified web services using **C#.NET** to interact with other applications and exposed them using **SOAP** and **HTTP**.
* Extensively worked with the release and deployment in **Java/J2EE**, **.Net** and **Web applications** environment. Experienced in Software Development Lifecycle (**SDLC**) using **SCRUM**, **Agile methodologies**.

**Certification:**

AWS certified DevOps Engineer-Professional

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud Computing:** | Azure, AWS EC2, ELB, S3, EBS, VPC, Route 53, RDS, Auto-Scaling, IAM, SNS, SES, SQS, Cloud Front, Cloud Formation, Cloud Watch, Elastic Beanstalk |
| **Programming/Scripting Languages:** | Java 8, Python, Node.js, Groovy, Shell, YAML, Shell Script, J2EE |
| **Technologies & frameworks:** | Spring Boot, Spring MVC, Apache Kafka, CI/CD, Docker |
| **Operating Systems:** | Windows, Unix, Linux, Solaris |
| **Web Servers:** | Nginx, JBOSS, Web Logic |
| **Build/Release (CI/CD):** | Chef, Puppet, Ansible, Jenkins, Kubernetes, Cloud Formation, Maven, ANT, Git, SVN, TFS, Atlassian Jira, Selenium, Nexus, Terraform, Kubernetes. |
| **Version Control Tools:** | SVN, GIT, GitHub, Bit bucket |
| **Security scanning tools:** | SonarQube, Veracode, Qualys, Prisma Cloud, Nexus IQ, Twist lock |
| **Atlassian Tools:** | Jira, Confluence, Bit bucket |
| **Monitoring Tools:** | Nagios, Splunk, Log Stash |

**WORK EXPERIENCE:**

**Client: Vanguard Feb 2023 – Present**

**Location: Charlotte, NC**

**Role: Senior Devops Engineer**

**Responsibilities:**

* Created **Amazon EC2 Cloud Instances** (Linux/ Ubuntu) using **AWS CloudFormation** template and configured launched instances with respect to specific applications.
* Created and managed multiple Instances of **Apache Tomcat** and deployed several test applications in those instances in QA environment.
* Created **Terraform** scripts to move existing on-premises applications to cloud.
* Created **AWS S3 buckets**, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket.
* Worked on **Chef Server** management console and have thorough working knowledge on all different components of chef server, nodes, and workstations.
* Implemented **Chef Recipes** for Deployment of build on **Amazon EC2**.
* Worked in creating **WebSphere/Tomcat Application Server Clustered Environments** and handling **Load Balancing** for QA, UAT, and Production.
* Worked with **Nagios** and **Oracle Enterprise Manager Console** for application status monitoring.
* Worked with server virtualization and implementation of clusters with **Infrastructure as a Service (IaaS)**.
* Worked with development and operations teams to implement **IaaS pipelines** using **Chef**.
* Wrote several **cookbooks** with more than 10 recipes to perform Installation and configuration tasks involving **jdk**, **tomcat**, **Web Logic** installation and domain creations for our test environment.
* Worked with **Chef Enterprise**, Installed Workstation, Bootstrapped Nodes, wrote Recipes and Cookbooks and uploaded them to **Chef-server**, managed On-site OS/Applications/Services/Packages using **Chef** as well as **AWS** for **EC2/S3/Route53 & ELB**.
* Installed and configured code rules, keys of **SonarQube** for code analysis and created **SonarQube dashboards** for different team members based on their roles to monitor the progress of project source code.
* Worked on creating custom **Docker container images**, tagging, and pushing the images.
* Worked on **Docker consoles** for managing the application life cycle.
* Build the development, staging and production software environments and their infrastructure.
* Coordinate and support project branches merging process with source code control.
* Creation and maintenance of various **Jenkins jobs** and created master-slave nodes.
* Worked with issues in the production environment, **Apache Tomcat** configuration and support for other teams within IT.
* Developed automated deployment scripts using **Ant** and **Python** to deploy war files, properties file and database changes to development server or QA server and Staging/Production server.
* Created various roles & environments, wrote custom resources and used **chef handlers** for various auto requirement jobs.
* Created **Jenkins pipelines** involving several Downstream/Upstream job configurations based on dependencies from other applications & based on Release methodologies.
* Expertise in the **Jenkins plugin management** areas and implemented several **CI/CD plugins** like **AWS EC2, build pipeline, Docker, Git, Junit** and **pipeline plugins**.
* Implemented **Jenkins** as a full cycle continuous delivery tool involving package creation, distribution, and deployment onto **tomcat application servers** via shell scripts embedded into **Jenkins jobs**.
* Worked on several areas of **Jenkins** like master/slave administrations, access controls, report generations, parameterized /triggered build setups etc.
* Worked with **JSON web tokens** for authentication and authorization security configurations using **Node.js**.
* Worked with **npm commands** using **package. Json** for managing dependencies of **node.js** application.
* Involved in automation and developing tools in **Node.js** and **Python** for operations.
* Implemented CI for several demanding consumer-facing applications with bi-weekly releases with **Jenkins** integrating **Git, Maven**, and **Rundeck, Chef** and deployment tasks.

**Environment: AWS** (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), **Chef**, Puppet, **GIT**, SVN, **Jenkins**, **JIRA**, **Oracle**, Shell, **Node.js**, **Ant**, Maven, SonarQube, **Java**, **Linux**.

**Client: Monogram Health Jan 2021 – Jan 2023**

**Location: Houston, TX**

**Role: AWS Devops Engineer**

**Responsibilities:**

* Design, build and manage the Windows Azure infrastructure based on customer requirements, involving in C#.NET, ASP. Net, User Controls development and deployment in cloud environment.
* Worked on cloud computing using Windows Azure and SQL Server on services like API management and SQL database service.
* Configured Azure Virtual Networks, subnets, DHCP address blocks, Azure network settings, DNS settings, and security policies and routing. Also, deployed Azure IaaS virtual machines and Cloud services (PaaS role instances) into secure Virtual Networks and subnets.
* Expertise in Working with Jenkins using numerous Plugins and Automated Build processes.
* Design and Implementation of Express Route for Private, Public and Microsoft Peering.
* Implementation of User Defined Routing.
* Setting up Azure Network Security with NSG and Endpoint ACLS.
* Design and Implement High availability with Storage accounts and availability sets, Disk Sanitization Process.
* Configuration of Internal load balancer, load balanced sets and Azure Traffic manager.
* Responsible for setting up monitoring in Windows Azure for infrastructure and the applications that is installed on that ecosystem.
* Worked on Architecting and maintaining the Infrastructure in Hybrid cloud environment using Microsoft Azure.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with Shell scripts to automate routine jobs.
* Responsible for Patching Azure Virtual Machines using SCCM infrastructure.
* Design and Implementation of Firewall appliances (Barracuda WAF/NG) in Azure and configure the same for IDS/IPS and to establish VPN connections.
* Deployed fully redundant RDS roles to support the custom application.
* Implementation of SQL Always ON and TDE.
* Design and Implementation of Azure Site Recovery in both Disaster Recovery Scenario and for Migrating the workloads from On-Premise to Azure.
* Configured Database replication by using clustering Technique.
* Implemented logging and auditing using Operational Management Suite (Operational Insights).
* Design and Implement the Backup and DR solution for Azure Infrastructure.

**Environment:** Windows Azure**,SCCM,** Azure Infrastructure**, VPN, SQL Always ON,** Microsoft Azure, **NSG and Endpoint ACLS, azure and SQL**

**Client: Mercedes Benz Oct 2018 – Dec 2020**

**Location: Vance, Al**

**Role: Devops Engineer**

**Responsibilities:**

* Worked on designing and deploying applications utilizing main services of the AWS stack (like EC2, S3, RDS, VPC, IAM, ELB, Cloud Watch, Route 53, Lambda and Cloud Formation), focused on high availability and fault tolerance.
* Implemented a 'serverless' architecture using API Gateway, Lambda, and Dynamo DB; deployed AWS Lambda code from Amazon S3 buckets and created a Lambda Deployment function.
* Utilized Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, Dynamo DB, tables, EBS volumes for setting alarms and monitoring logs.
* Used Ansible server to configure nodes, manage ansible playbooks, Ansible roles and used Ansible Tower to manage inventory and multiple nodes.
* Worked on implementing Data warehouse solutions in AWS Redshift, migrating data from various databases to AWS Redshift, RDS, ELB, EMR, Dynamo DB, and S3.
* Written scripts in BASH and Python to create AWS infrastructure, created Lambda functions for S3 and Dynamo DB table changes.
* Worked on Continuous Integration (CI) using Virtual Environments like Docker and Kubernetes for microservices-oriented environments. Implemented Twistlock for container and application security.
* Implemented code coverage & security scanning tools like SonarQube, Veracode, Qualys in the CI/CD pipeline.
* Managed AWS EC2 instances using S3 and Glacier for data archiving, UAT environments, and infrastructure servers for GIT.
* Automated provisioning using Terraform and Python, worked on Docker container, Service Orchestration, and AWS CloudFormation templates.
* Used Jenkins pipelines for microservices builds to the Docker registry and deployment to Kubernetes, created and managed Pods.
* Used AWS cloud services and OpenStack for launching Linux and Windows machines, creating security groups, and writing basic PowerShell scripts.
* Orchestrated computing, networking, and storage of the Kubernetes cluster utilized Kubernetes and Docker in the CI/CD system for building, testing, and deploying.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to manage configurations of AWS nodes, and tested playbooks on AWS instances using Python.
* Configured Git with Jenkins and scheduled jobs using POLL SCM option for automating the code checkout process.
* Integrated Git with Jenkins for automating code checkout and troubleshooting build issues, implemented continuous delivery framework using Jenkins.
* Used Ansible and Ansible Tower as a configuration management tool to automate repetitive tasks and quickly deploy applications.
* Used Node.js on the server side for installing necessary packages into the application.
* Developed Web API and REST API using Node.js, hosted on load-balanced API instances.
* Provided 24x7 supports on production servers on a rotational basis and involved in creating documentation.

**Environment: GIT**, **Maven**, **Node.js**, Docker, **Kubernetes**, Splunk, Terraform, **AWS, SonarQube**, Ansible, **Jenkins**, **Python**, **AWS lambda**, S3, Glacier, EC2, **AWS Redshift**, RDS, ELB, EMR, Dynamo DB, **SonarQube**, Twist lock, **Prisma cloud.**

**Client: Virtusa, TX Oct 2017 – Sep 2018**

**Role: Devops Engineer**

**Responsibilities:**

* Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of automation using Vagrant, Jenkins, and cloud Formation.
* Experience in using Ansible playbooks, inventory, dynamic inventory and automated Existing cloud environment.
* Written playbooks and roles to manage configurations of and deployments to remote machines.
* Organized and created a separate role for every installation and created a role called “Common” for all the common activities and included in meta/main.yml.
* Used Ansible Tower for scheduling playbooks and used GIT repository to store our playbooks.
* Used pre-tasks and post-tasks to perform regular health checks to tail the logs and other clusters.
* Also written custom modules to control system resources like services, packages, and to handle executing system commands.
* Installed the "htop" utility which is an improved version of top—an interactive system process monitor.
* Working with other members of the development team to design, develop and implement features, bugfixes, and other improvements for the Ansible core software.
* Experience in AWS Ansible Python Script to generate inventory and push the deployment to.
* Managed the configurations of multiple servers using Ansible.
* Written multiple manifests and also customized facts for efficient management of the ansible clients.
* Written scripts in Python to automate log rotation of multiple logs from web servers. Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Working with AWS services such as EC2, VPC, RDS, CloudWatch, CloudFront, Route53 etc. Focus on continuous integration and deployment, promoting Enterprise Solutions to target environments.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Written Cloud formation templates and deployed AWS resources using it. Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Implemented Git mirror for SVN repository, which enables users to use both Git and SVN.
* Implemented Continuous Integration using Jenkins and GIT.
* Deployed JAVA/J2EE applications through Tomcat Application servers Worked with a complex environment on Red Hat Linux and Windows Servers while ensuring that these systems adhere to organizational standards and policies.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Strong in building Object Oriented applications using Java, writing Shell Scripts on UNIX.
* Generated Perl & UNIX scripts for build activities in QA, Staging and Production environments.
* Used monitoring tool JIRA and also triaged the issues and maintained bugs using JIRA tool.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloudwatch.
* Manage the integration of new software projects and products into the build environment.
* Work with product development to resolve build-related issues in all projects. Involved in scrum ceremonies (stand-up, grooming, planning, demo/review and retrospective) with the teams to ensure successful project forecasting and realistic commitments.
* Involved in scrum meetings, product backlog and other scrum activities and artifacts in collaboration with the team.
* Migrating the data to respective DEV and QA Oracle database before doing code roll-out.

**Environment**: Ansible 1.9/2.x, Cloud AWS Servers, Centos, Ubuntu, Jenkins, Jira, Tomcat, JBOSS, Sonar, Nexus.

**Client: Persistent Systems Apr 2014 – Dec 2016**

**Location: Hyderabad, India**

**Role: Devops Engineer**

**Responsibilities:**

* Developed scripts (PowerShell, Python, Ruby, and BASH) on Windows/Linux systems for automation of the build, release process, and to automate deployment and release distribution process.
* Formulated Cloud architectures for business solutions using Azure Services: Azure Active Directory, Azure DNS, Traffic Manager, Azure Web Apps, Azure API Apps, Azure ARM, Azure Service Fabric, Azure Container Service, Azure Data Lake Storage, Azure Functions, Azure Logic Apps.
* Designed, configured, and deployed Microsoft Azure for applications utilizing the Azure stack (Including Compute, Web & Mobile, Blobs, Resource Groups, Azure SQL, Cloud Services, and ARM, AKS etc.).
* Set up repos on Azure Git, merging code from the developed branch to the master branch and preparing it for deployment.
* Assisted the cloud migration team by performing system upgrade tasks.
* Migrated legacy applications to Microsoft Azure Cloud PaaS by setting up CI/CD pipelines on Azure DevOps.
* Created nightly builds with integration to code quality tools such as SonarQube.
* Rebuilt the entire existing platform over to Docker containers.
* Set up CI/CD pipelines for Microservices and integrated tools such as Maven, Bitbucket, SonarQube, Nexus, Docker, and Slack for providing immediate feedback to DEV teams after code check-in.
* Wrote Ansible playbooks from scratch in YAML.
* Set up Git repositories and SSH keys in GitHub for agile teams.
* Integrated GitHub webhooks into Jenkins to automate the code check-out process.
* Implemented the setup for Master slave architecture to improve the performance of Jenkins.
* Created docker file and automated docker image creation using Jenkins and Docker.
* Had strong exposure using Ansible automation in replacing different components of OpenShift like ETCD, MASTER, and Cluster.
* Created quality gates in SonarQube dashboard and enforced in the pipelines to fail the builds when conditions are not met.
* Implemented Migration planning, developed, tested, and moved the migration process onto a full-fledged production network.
* Worked with RedHat OpenShift Container Platform for Kubernetes, used Kubernetes to manage containerized applications using its nodes, Config Maps, node-selector, Services, and deployed application containers as Pods.

**Environment: Azure**, **Git**, **Power Shell**, Docker, **Sonar Qube**, Ansible, **Kubernetes**, **Open Shift**, Terraform, **Power Shell**, **Python**, **Ruby**, Bash scripting.

**Client: Pramati Technologies Aug 2012 – Mar 2014**

**Location: Hyderabad, Telangana**

**Role: Software Developer**

**Responsibilities:**

* Presented reports to the Project Manager about the progress and issues, tracking key project Milestones, plans, and resources.
* Performed daily/weekly software builds and releases for promotion to the production environment.
* Installation of WebSphere, upgraded to service pack updates, installed IBM patches, configuring and creating new admin & managed servers, start & stop WebSphere server.
* Installed and Deployed Red Hat Enterprise Linux 6.x/7.x, CentOS, and installation of packages and patches for Red Hat Linux Servers.
* Scanning the newly assigned LUNs to the servers and assigning them to volume group and increasing the file system using Red Hat volume manager.
* Mounting and unmounting the net app storage LUNs to the Red Hat Linux servers and troubleshooting issues encountered. Responsible for reviewing all open tickets, resolving and closing any existing tickets.
* Documented solutions for any issues not previously discovered. Setup secured password less SSH authentication on servers using SSH keys.
* Managed day-to-day ticket resolution of Ubuntu Linux issues.
* Automated some jobs by deploying the CRON tool for job scheduling processes. Updating YUM Repositories and RPM.
* Installed and configured Subversion server on Linux via the Apache web server to provide access over the HTTP protocol.
* Monitored and Performed system logs administration to detect, resolve issues, and monitor activity on all servers.
* Installation and configuration of database systems, e.g., SQL, Oracle.
* Involved in creating virtual machines using Oracle Virtual Manager, creating server pool, VM cloning.

**Environment: Red Hat**, Ubuntu Linux,**JIRA**, Bash Scripts, **Pearl Scripts**, **UNIX/LINUX. SQL**, **Oracle**.

**Education Details:**

* **Bachelor of Technology in Electronics and communication , KL University , INDIA –**
* **Masters of Science in Computer Science, UNC Charlotte, Charlotte, NC, USA –**