**Bhavani Prasad**

**Rishitha.23g@gmail.com**

**+1 2142998373**

**Summary:**

* 7 years of experience as a Devops Engineering with focus on building and releasing in Azure and AWS cloud environments.
* Experienced in automating, configuring, and deploying instances on **Azure, AWS Cloud** environments and Data centers.
* Experience on Production systems troubleshooting, root cause analysts, performance monitoring and improvements.
* Proficient in monitoring exiting raw data using Kibana dashboards visualization.
* Provided consistent environment using **Kubernetes** for deployment scaling and load balancing to the application from development through production, easing the code development and deployment pipeline by implementing **Docker containerization**.
* Capable of handling multiple tasks and work effectively both in group and as an individual to meet deadlines.
* Experience designing and developing **Restful APIs & SOAP** web services using **Apache**.
* Proficient in tracing build problems, release issues, Implemented Continuous Integration and deployment using various CI Tools like **Jenkins, Bamboo, Chef, Puppet, Ansible.**
* Working Experience on **Azure Cloud Services, Azure Storage**, and **SQL Azure** and in different PaaS Solutions with Web, and worker Roles and **Azure Web Apps.**
* Implemented **AWS Lambda** functions to run scripts in response to event in **Amazon Dynamo DB** table or **S3** bucket or to HTTP requests using **Amazon API Gateway.**
* Integrated **Jenkins** with **Docker container** using Cloud bees **Docker pipeline** plugin and provisioned the EC2 instance using **Amazon EC2** plugin.
* Experience in deploying **Kubernetes clusters** to manage **Docker containers** in the production environment.
* In-depth understanding of **Software Configuration Management** (SCM) processes which include compiling, packaging, and deploying of various applications.
* Experience in working with different build automation tools like **Jenkins** and **Maven** to achieve End-to-End Automation.
* Extensively used **Docker** for virtualization, Ship, Run and Deploy the application securely for fasten the Build/Release Engineering.
* Involved in migrating physical **Linux/Windows** servers to **Cloud (AWS**) and testing.
* Experience and knowledge of various Azure components like Virtual Network, Express Route, Traffic Manager, Load Balancer, Azure Active Directory, Azure AD DS and Azure DNS
* Experienced in RESTful service design, documentation, and implementation experience, AWS API Gateway.

**Technical Skills**

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| --- | --- |
| Cloud Technologies | AWS, Azure |
| CM Tools | Chef, Ansible, Puppet, Terraform |
| CI/CD Tools | Jenkins, Bamboo |
| Container Tools | Docker, Kubernetes |
| Web / App Servers | Apache Tomcat, Web Logic, Junit, Selenium |
| Monitoring Tools | Splunk, Nagios, AWS Cloud Watch |
| SCM Tools | SVN, VSC, GIT, GitHub, Bit Bucket |
| Build Tools | ANT, MAVEN |
| Tracking Tools | JIRA, Confluence, Slack |
| SDLC Methodologies | Agile, Scrum |
| Databases | SQL, MySQL, Oracle |

**Education:**

Masters: MIS management information system, Fairleigh Dickinson university - 2023

**Professional Experience:**

**Client: American Express, AZ Jan 2023 – Present**

**Role: Devops Engineer**

**Description:**

Highly skilled professional adept in Agile methodologies, AWS cloud infrastructure management, and container-based deployments using Docker. Proficient in CI/CD tools like Jenkins, GitLab, and Maven for seamless integration and automation. Experienced in migrating legacy infrastructures to AWS using Terraform and Ansible, ensuring scalability and reliability. Expertise in version control using Git, Subversion, and TFS across Linux and Windows platforms. Accomplished in managing microservices architecture with Kubernetes and Chef for role and environment management. Proven track record in monitoring AWS resources with CloudWatch, implementing automation scripts for deployments, and enforcing security best practices. Collaborative team player proficient in using JIRA for issue tracking and resolution. Demonstrated ability to adapt to evolving technologies and deliver efficient solutions aligned with business objectives.

**Responsibilities:**

* Worked in an Agile work environment and actively engaged in daily scrum meeting sessions, creating user stories. Also involved in all sprint activities including the usage of Kanban.
* Monitored and managed the cloud infrastructure within AWS.
* Migrated an existing legacy infrastructure and recreated the entire environment within Amazon's Web Services (AWS).
* Worked with container-based deployments using Docker, working with Docker images, Docker Hub, and Docker-registries.
* Worked with Development and QA teams to continuously integrate software development using Maven, GIT, Jenkins.
* Creating S3 buckets to store different war and jar files and to store the build artifacts.
* Installing, configuring, and administering Jenkins CI and CD tool on Linux machines.
* Extensively worked on Jenkins for continuous integration and End-to-End automation for all builds and deployments.
* Involved in the process of utilizing Terraform and Ansible to migrate monolithic systems to Amazon Web Services (AWS).
* Using GitLab to do the Continuous Integration on the code base deployments to AWS.
* Developed build and deploy scripts using MAVEN and activated them using Jenkins to migrate from one environment to another.
* Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN) and TFS on Linux and windows platforms.
* Involved in migrating physical Linux/Windows servers to Cloud (AWS) and testing.
* Worked on migrating a current application to Microservices architecture. This architecture included Docker as the container technology with Kubernetes.
* Managed roles, environments, data bags, cookbooks, and recipes in Chef.
* Used Jenkins and pipelines to drive all micro services builds out to the Docker-registry and then deployed to Kubernetes, created Pods, and managed using Kubernetes.
* Monitored AWS cloud resources and the applications that deployed on AWS by creating new alarm, enable notification service using CloudWatch.
* Implemented automation for deployments by using YAML scripts for massive builds and releases.
* Implemented security best practices to ensure the safety and integrity of the infrastructure and applications.
* Worked with JIRA tool to create, modify, close, and track the support issues.

**Environment:** AWS, Docker, Jenkins, Lambda, EC2, S3 Bucket, Kubernetes, Jenkins YAML, Linux, Maven, Ansible, JIRA, GIT, Cloud Watch, Apache Tomcat, SQL Developer, Terraform

**Client: Walmart, MD Oct 2019 - Dec 2022**

**Role: AWS DevOps Engineer**

**Description:**

Experienced AWS and DevOps professional proficient in implementing cloud solutions using EC2, S3, RDS, and other AWS services. Skilled in IAM for user management and security setup, and CloudWatch for monitoring and notifications. Strong background in CI/CD pipeline setup using Jenkins, with expertise in Docker containerization and Kubernetes orchestration. Proficient in configuration management tools like Puppet and automation scripting with Python, Shell, and Perl. Hands-on experience with Git for version control and Maven for artifact management. Proficient in deploying diverse application architectures including microservices and Docker-based deployments. Well-versed in container management, including Dockerfile creation and Docker Hub setups. Proficient in deploying applications to various servers like Tomcat and WebLogic. Experienced in utilizing Splunk for comprehensive application monitoring and Jira for issue tracking and project management. Proven ability to automate end-to-end deployment processes using Shell scripting.

**Responsibilities:**

* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.
* Used IAM to create and manage AWS users and groups, and designed user's credentials and profiles using AWS IAM.
* Created monitors, alarms, and notifications for EC2 instances using CloudWatch.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances.
* Used AWS Route 53 to route end users to Internet applications by setting up DNS.
* Installed, Configured, and maintained Jenkins for implementing CI and CD.
* Used Jenkins AWS Code Deploy plugin to deploy to AWS.
* Configured and maintained different scripts for monitoring server’s health, getting versions running and deploying applications.
* Responsible for creating Puppet modules and manifest files from scratch and experience in editing existing Puppet manifests and automated manual installation processes using Puppet.
* Experience in Writing Python modules for Ansible customizations.
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts such as war & ear from source code.
* Created branches, performed merges in GIT version control system.
* Experience in building applications of various architecture styles like Micro-services architecture consisting of Restful web services and Docker container-based deployments.
* Deployed using Admin console into Tomcat Application Servers.
* Developed Shell/Perl Scripts for automation purposes.
* Created Dashboards for tracking build versions in different env’s using Perl scripts and php.
* Working Experience on AWS –creating IAM policies, rules for users, groups, and AWS components.
* Creating S3 buckets and EC2 instances on AWS for different environments.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Deploying JAR, WAR and EAR files to WebLogic, Tomcat using Jenkins.
* Used Splunk for monitoring applications across the board.
* Used Jira as Ticketing System Tool to handle the issues/tasks/service requests created by multiple team members across the project.
* Automated end to end Deployment process using Shell Scripting.

**Environment:** AWS, Docker, Jenkins, EC2, S3 Bucket, Kubernetes, Jenkins, YAML, Linux, Maven, Ansible, JIRA, GIT, Apache Tomcat, Python, SQL Developer, Puppet

**Client: Pacebright Technologies Pvt Ltd, India Dec 2016 – May 2019**

**Role: Azure Devops Engineer**

**Description:**

Experienced DevOps professional adept in Agile project management methodologies and automated build and deployment processes. Proficient in setting up Continuous Integration and Continuous Deployment (CI/CD) pipelines using Azure DevOps on Kubernetes container environment, leveraging Docker for runtime environments. Skilled in managing Azure services such as Repos, Boards, and Test Plans for code collaboration and deployment. Strong expertise in build and deploy scripting with Maven and Jenkins, alongside managing Azure Kubernetes Services (AKS) policies and permissions. Extensive experience with configuration management tools like Chef and infrastructure provisioning using Terraform and ARM templates. Proficient in containerization with Docker and using monitoring tools like Azure Monitor and Dynatrace for proactive alert setup. Demonstrated skills in implementing Azure Site Recovery and maintaining Azure Kubernetes Services for containerized deployments. Proven track record in setting up monitoring systems for key vaults and Azure Storage resources.

**Responsibilities:**

* Worked in Agile Project management Process.
* Automated Build and Deployment process-setup Continuous Integration and Continuous Deployment of applications onto different environments like Dev, QA and Production.
* Working knowledge in deploying CI/CD system using Azure DevOps on Kubernetes container environment, and for the runtime environment of CI/CD system to build, test and Deployment we have utilized Kubernetes and Docker.
* Used Azure DevOps services such as Azure Repos, Azure Boards, and Azure Test Plans to plan work and collaborate on code development, built and deployed application.
* Developed build and deploy scripts using MAVEN and activated them using Jenkins to migrate from one environment to another.
* Managing the Azure Kubernetes Services (AKS) policies, providing access to different Azure resources and developing and improving the workflows that govern access.
* Worked on authoring and delivering Terraform template and ARM template to provision servers, to build development, production, and acceptance test environment in Azure platform.
* Worked with Chef Enterprise and Chef Open Source, Chef DK, Chef Workstation, Chef Server, Chef-Client. Experience in working with Knife command line utility, and Test kitchen to validate Chef Cookbooks.
* Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all microservices and later used Docker file to build the Docker images from the Java jar files.
* Worked on Azure key vault and Azure Services and Managed Active Directory for Web Applications.
* Power Shell Scripts for the key vaults from Scratch Run them through Automation Account.
* Experience in using the monitoring tools like Azure monitoring, Dynatrace to setup the desired alerts to avoid disruption.
* Worked on VSTS and deployments of .net application and web applications.
* Set up the permission for the new resources for the Team roles with Run book on AD to run once the request to submit through Share point.
* Used Terraform along with Packer to create custom machine images, and used Ansible to install the software dependencies once the infrastructure was provisioned.
* Design and Implementation of Azure site recovery in both Disaster Recovery scenario and for migrating the workloads from on premise to Azure.
* Worked on Azure Kubernetes services (AKS) to maintain multiple containers and deployments process.
* Setup monitoring Key vaults and the details of the resources We used for that in Azure Storage.

**Environment:** Azure, Power Shell, Active Directory, AKS, Azure Storage, Chef, Jenkins, Docker, Kubernetes, Share Point