**Sr. Cloud/DevOps Engineer**

**Priyanka C**

Mobile: +1 786.233.0833

Email: priyanka.devops390@gmail.com

LinkedIn: linkedin.com/in/priyanka-c-1a27971ab

**PROFESSIONAL SUMMARY:**

* Over 9+ years of experience in the IT industry as a **Cloud/DevOps Engineer** with a major focus in the areas of Cloud Infrastructure Providers, Data Center Migration, Containerization Technologies, Configuration Management, **CI/CD** Pipeline, Virtualization technologies using different tools and cloud services like **Azure**, **AWS.**
* Extensive experience in **Azure Development** and **Azure Compute Services** worked on **Azure Web Applications**, **Azure SQL Database**, Content Delivery Network, **Virtual machines**, Azure Active Directory, **Key Vault**, **Azure VPN Gateway**, **Azure Fabric**, Azure search, App Services, and Notification hub**.**
* Experience in Architecting and securing the Infrastructure on AWS **using IAM, KMS, EMR, Cognito, API Gateway, Cloud Trail, Cloud Watch, Amazon Simple Queue Service (Amazon SQS), AWS Kinesis, Lambda, NACL, Elastic Beanstalk, Redshift, and CloudFormation.**
* Experience working on Vagrant boxes to set up local **Kafka** and **StreamSets** pipelines**.**
* Implemented **StreamSets** data collector tool for ingestion into **Hadoop**. Also Worked with **JSON** file format for **StreamSets**
* Experience in Developing **Spark** applications using **Spark** - **SQL** in **Databricks** for data extraction, transformation, and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns
* Experienced in migrating on-premise applications using **Terraform** and **ARM templates** and used **Azure Site Recovery** and **Azure backups for** migrating storage to Microsoft Azure and deployed **Azure IaaS virtual machines** and **Cloud services PaaS role instances** into secure **Subnets** and **Virtual Network.**
* Expertise in **Azure Data Factory** to orchestrate the intake of data from different sources like **Azure Storage Blobs, Azure SQL Database**, **Azure SQL Data Warehouse**, and on-premises databases to **Azure Data Lake Store**.
* Experience in all phases of Software development life cycle (SDLC) with a focus on the build and release of quality software and good Confidential Waterfall model, Agile Methodology (**Scrum**).
* Strong Experience in **Azure IoT** and **Azure PaaS** components like **IoT Hub, Event Hub, Stream Analytics, Service Fabric, Document DB, App services, Service bus, Distributed cache,** and **Azure Functions.**
* Developed different environments for different applications on Google Cloud Platform (GCP) by provisioning **Kubernetes** clusters on **GCE** instances and **GKE** using **Docker**, Bash, and Python.
* Experience in **Building** and securing the **Infrastructure** on **AWS** using **IAM, EC2, EBS**, **S3**, **VPC, Elastic Beanstalk**, **Cloud Front**, **Route 53**, **Dynamo DB, Redshift, RDS,** KMS, ECS, ELB, EFS, Cloud Formation, Elastic Cache**, Cloud watch, SNS, SQS, SES, AWS kinesis** focusing on High Availability, Fault-Tolerance and Auto Scaling**.**
* Extensively involved in **infrastructure as code**, **execution plans**, **resource graph**, **and change automation** using **Terraform,** and used **Auto Scaling** launch configuration templates for launching amazon EC2 instances while deploying microservices.
* Experience in creating and deploying a highly available and fault-tolerant infrastructure on **AWS** using **terraform modules**, these modules install a web application in the **Public subnet** and database in the **Private subnet** which can communicate using the **routing table** in the **VPC**.
* Used **Azure Kubernetes** Service to deploy a managed **Kubernetes** cluster in Azure and created an **AKS** cluster in the Azure portal, with the Azure CLI, also used template-driven deployment options such as Resource Manager Templates and Terraform.
* Implemented microservices, application development, and migration using **AWS/Azure** services such as **Azure** **DevOps**, **Kubernetes** Service (**AKS**), **Container Registry, Cosmos DB, Kusto** **DB** and **Grafana**, Azure pipelines, Monitor, RBAC, AWS **Kubernetes** **EKS**, and **Kubernetes** API to run workloads on **EKS** Clusters. Experience in creating clusters using **Kubernetes**, creating **pods**, **replication controllers, deployments, labels, health checks,** and **ingress** by writing **YAML files** and hands-on experience in building and deploying the application code using **CLI** of **Kubernetes**.
* Expertise in setting up **Docker** environments, working on **Docker hub**, creating **Docker images** and handling multiple images, used **Docker File** to create custom images and used **Docker Compose** to build and host custom applications.
* Experienced in using **Docker Swarm** and its Overlay Networking to keep the related containers under the same network, scaled out with Routing Mesh of Docker, and used **Secrets** in **Docker Swarm Services.**
* Responsible for Plugin-Management in **Jenkins** according to requirement Upgrading and Degrading Plugin Versions, Hands-on experience with **Bash**, **Perl,** and **Python** scripting.
* Implemented **CI/CD** pipelines with the help of **Jenkins** and built pipelines, multi-branch pipelines and has hands-on experience in handling various jobs through Jenkins file.
* Skilled in monitoring servers using **Nagios**, **Splunk**, **ELK,** and **New Relic** for Resource Monitoring, Network Monitoring, and Log Trace Monitoring.
* Managed **DNS**, **FTP**, **Tomcat** & **Apache web servers** on CentOS, Ubuntu, Red Hat Enterprise Linux environments.
* Proficient in automating the build and deployment process in various enterprise environments by writing automation scripts using **C++, Python**, **Shell**, **PowerShell**, **Bash.**
* Integrate systems using a wide variety of protocols like **REST, SOAP, MQ, TCP/IP, JSON**, and others.

**EDUCATIONAL DETAILS:**

**Bachelor’s in computer science, University Of Pune, 2012**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Cloud | Azure, GCP, AWS, Cognito |
| Big Data Technologies | Apache Kafka, StreamSets. |
| Configuration Tools | Chef, Puppet, Ansible |
| CI/CD Tools | Jenkins, Bamboo, Hudson |
| Build Tools | Terraform, Cloud Formation, Maven |
| Container Tools | Kubernetes, Docker, Docker swarm |
| Version Control | GitHub, Bitbucket, Subversion(SVN), TFS |
| Monitoring Tools | Nagios, Splunk, ELK |
| Scripting | Bash, Python, PHP, PowerShell, JSON, YAML, HTML5, JavaScript, C++, JAVA |
| Databases | MySQL, MS SQL, Dynamo DB, Mongo DB, AWS RDS, Oracle 11g/10g/9i/8i |
| Application Servers | JBoss 4.x/5.x, Apache Tomcat 5.x/7.x, Web Sphere, Web Logic |
| Networking | TCP/IP, DNS, NFS, ICMP, SMTP, DHCP, UDP, NIS, LAN, FTP |
| Operating Systems | Red Hat Linux 7/6/5/4, Ubuntu 16/14/13/12, Windows, Mac OS |

**PROFESSIONAL EXPERIENCE:**

**Client: T-Mobile, Bothell, WA Jan 2019 – Till Date**

**Role: Sr. Cloud DevOps Engineer | (Azure)**

**Responsibilities:**

* Prepared capacity and architecture plan to create the **Azure Cloud environment** to host migrated **IaaS**, **VMs,** and **PaaS** role instances for refactored applications and databases.
* Worked on designing and developing the Real-Time Time application using Oracle, **StreamSets**, **Kafka,** and **MySQL**.
* Involved in ingestion, transformation, manipulation, and computation of data using **StreamSets**, **Kafka**, Mem**SQL**, **Spark**.
* Performed implementation of the **Azure** Operations dealing with **IAAS infrastructure** (Azure VMs, Virtual Networking, Azure services, Website Deployments) and deployed application as **PaaS** (Websites, Web Roles, and Worker Roles).
* Created Azure automated assets, **PowerShell** run books that will automate specific tasks. Expertise in deploying **Azure AD** connect, configuring ADFS installation using Azure AD connect.
* Involved in **migrating SQL** server database to **SQL Azure database** using **SQL Azure migration** wizard and used **Python API** to upload agent logs into Azure blob storage.
* Extracted and loaded data into **Azure** Blob Storage and Snow Flake databases using Azure Data Factory and Data bricks.
* Developed **CI/CD** pipelines using **Azure DevOps** to deploy Snow **SQL**'s, data factory components, and python scripts to their respective destinations.
* Implemented a **CI/CD** pipeline with **Docker, Jenkins (TFS Plugin installed), Team Foundation Server (TFS), GitHub,** and **Azure Container Service**, whenever a new TFS/GitHub branch gets started, **Jenkins**, our **Continuous Integration (CI) server**, automatically attempts to build a new **Docker** container from it.
* Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, Azure **SQL**, Azure DW) and processing the data in In **Azure Databricks.**
* Creation and Maintenance of **MS Azure Cloud Infrastructure** and **Virtual Network** between **MS Azure Cloud** and **On-premise** network for backend communication.
* Designed Architecture for API development & deployment as **Microservice** including **Python** code in **Docker** container and **Azure Service Fabric**.
* Hands-on development experience in several areas of the Microsoft Azure cloud technologies including **Compute, Storage, App Services, PaaS v2, Service Fabric, Micro Services, Functions, Messaging, RM API, SQL Azure, Redis Cache, Service Fabric, IoT, PowerBI, PowerBI Embedded, Cognitive Services API, Cortana Analytics, BOTS Framework, deployment slots, Dev/Test Labs, Azure Active Directory Integration, Web jobs.**
* Wrote **Power Shell** scripts to automate the **Azure cloud system** creation including end-to-end infrastructure, VMs, storage, firewall rules, etc.
* Used **Azure Terraform** to deploy the infrastructure necessary to create development, test, and production environments for a software development project.
* Responsible for implementing containerized based applications on Azure **Kubernetes** by using Azure **Kubernetes** Service (**AKS**), **Kubernetes** Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, My**SQL** Databases, and Cosmo DB for stateless storage of external data, and set up reverse proxy Nginx in the cluster.
* Implemented Jenkins pipelines into Azure pipelines to drive all microservices builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods, and managed using **AKS**. Used **Kubernetes** to deploy, load balance, scale and manage docker containers with multiple name-spaced versions.
* Developed **Kubernetes** templates for various applications and setting up **Kubernetes Clusters** for running microservices and pushed microservices into production with **Kubernetes** backed Infrastructure
* Worked on **Docker container** snapshots, attaching to a running container, removing images, managing director structures, and managing **containers**.
* Worked on the creation of **custom Docker images**, tagging, and pushing the images, and creating the Docker containers and Docker consoles for managing the application life cycle.
* Written **Shell** scripts to apply the Integration label to all the files which need manual labeling of files.
* Configuring **JIRA** as a defect tracking system and configured various workflows, customizations, and plugins for the **JIRA** bug/issue tracker.
* Worked on the **NoSQL** database **MongoDB** to replica setup and sharing. Also experienced in managing replica sets.
* Day-to-day duties for **Linux server maintenance** and support to the developer’s team for their issues with the application, **tuning**, **troubleshooting** software running on Servers.

**Environment**: Microsoft Windows AZURE, Azure AD, Azure SQL, Azure Network, Web Applications, Cognito, Kubernetes, Virtual Machines, PCF, Ansible, Jenkins, Puppet, Docker, AKS, Python, C++, Power shell, MongoDB, Databricks, Big Data, Azure Data Factory, Azure Data lakes, Kafka, Python 2.7, Azure App Services, StreamSets, Logic Apps, API Apps, Service Fabric, Service Bus, Application Insights, PowerBI, Cloud Services, SQL Azure, Azure Storage (Table, Blob, Queue, File), Azure Resource Manager, Micro Services, PowerShell, Azure Functions, Azure Stack, MVC 5, IIS 7.0/6.0, CSS/LESS, HTML5

**Client: Yale University, Connecticut July 2016 – Dec 2018**

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

**Responsibilities:**

* Implemented multiple **EC2** instances at the same time and provided highly durable and available data by using **S3** data store, versioning, lifecycle policies, & create **AMIs** for mission-critical production server’s backup.
* Provided highly durable and available data by using **S3** data store, versioning, lifecycle policies, and create **AMIs** for mission-critical production servers for backup.
* Designed **AWS** Cloud Formation templates to create custom-sized **VPC**, **Subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Designed roles and groups for users and resources using **AWS** **Identity** **Access** **Management** **(IAM)** and built server deployment on Amazon Cloud (EC2) servers with the help of DevOps tools like **Chef**.
* Managed **Chef** Workstation, Chef Attributes, Chef **Templates**, Chef **Recipes**, and Chef Files for managing and bootstrapping the configurations across various nodes, setting up keys, and Created Chef **Cookbooks** to install and configured Infrastructure across environments and automated the process using **Python** Script.
* Implemented the Chef Software setup and configuration on VM's from the scratch and deployed the run-list into the chef server and bootstrap the chef client s remotely.
* Designed **CI/CD** processes in the context of a **Jenkins** **orchestration**, including the use of automated build, test/QA, and deployment tools.
* Involved in editing the existing **MAVEN** files in case of errors or changes in the project requirements.
* Extensively used the **MAVEN** tool to do the builds and integrated with Jenkins for the builds as the continuous integration process. Modify build configuration file including **POM**.**XML.**
* A tool to do the builds and integrated with **Jenkins** for the builds as the continuous integration process. Modify build configuration file including **POM**.**XML**.
* Creating **GIT** repositories and give access rights to authorized developers and workers on Artifactory.
* Used **SonarQube** for continuous inspection of code quality and to perform automatic reviews of code to detect bugs. Automated **Nagios** alerts and email notifications using **Python** script and executed them through **Chef**.
* Developed **Shell** Scripts and **Perl** for automation of the build and release process. Developed custom solutions in C# and **PowerShell** to validate availability, consistency, and compliance with environments.
* Created scripts in **Python** to automate log rotation of multiple logs from web servers and wrote shell scripts to automate the process of adding **ssh-keys**, generating passwords in **python**.
* Implemented performance capacity and availability monitoring using tools like **Nagios**, **Datadog**, **PagerDuty**.

**Environment**: Amazon Web Services (AWS), Chef, Jenkins, Bitbucket, Maven, PowerShell Scripting, Linux, VMWare Servers, Shell scripting, Bash, Linux/RHEL, Windows, Python, PHP, Nexus, Artifactory.

**Client: Gilead Sciences, Foster City - CA May 2015 – June 2016**

**Role: DevOps Engineer / Build & Release Engineer**

**Responsibilities**:

* Responsible for Creating Builds, Staging, and deploying Software Content across multiple environments **(DEV, QA, Demo, Test, Staging, UAT, and** **Production).**
* Designed and managed Build and Release cycle activities in Agile Methodologies. Developed build and deployment processes for Pre-production environments. Managed **Sonatype Nexus** an enterprise-level package management server.
* Used **Ansible** to manage Web Applications, Configuration Files, Database, and Packages. Used **Ansible** to automate Configuration management & Applications.
* Administration of **Bamboo**. Implemented a Continuous Delivery framework using **Bamboo**, and Oracle in Linux Environment.
* Installed and configured the **Bamboo** server for CI to automate the release management for applications and created a continuous delivery pipeline.
* Installing, configuring, and maintaining DB servers, LAMP server, and file-sharing servers like Samba, **NFS**, **FTP,** and **Web** **Sphere** & **Web Logic** Application Servers.
* Migrating **J2EE** applications to UNIX and Windows environments by configuring application via Subversion**,** and **Jenkins** also Worked closely with the Development Team in the design phase and developed Use case diagrams using Rational Rose.
* Maintained build related scripts developed in the shell for **Maven** builds. Created and modified build configuration files including **POM**. **XML**. Configured **Jenkins** to build Java Code using Meta Case Software and executed the CI process on the Java code generated.
* Developed and implemented Software Release Management strategies for various applications according to the **agile process**.
* Configured **Linux** servers for clusters of Oracle Real Application and configured **SAN-**based mount points as well.

**Environment:** Linux, Perl, Bamboo, Nagios, PHP, JIRA, GIT, Vagrant, SVN, Ant, Bash, PowerShell, NT Command Shell.

**Client: LPL Financial, San Diego, CA June 2014 – May 2015**

**Role: Linux Administrator**

**Responsibilities**:

* Installed and configured **Linux, UNIX, and SUSE & RedHat 5.x/6** using **Kickstart** with **PXE** for **LAMP** (Linux, Apache, My**SQL**, and Perl/PHP) installations.
* As a Linux system admin maintained the various servers and Production Support of various applications in **RedHat Enterprise Linux** and **Windows** environment.
* Dealt with Linux Utilities: **KICKSTART,** **SSH,** **FTP,** **AUTOFS**, Quota Management, wrappers, User Management, Process Management, Memory Management, and Text processing tools, Log Management, Package Management, Disk Management, and Swap Partition/Files Management.
* Tuned, maintained, and upgraded **WebSphere, WebLogic, JBoss, Tomcat,** and **Apache** application servers.
* Created **BASH shell** scripts to automate **CRON** jobs and system maintenance.
* Worked on setting up Splunk to capture and analyze data from various layers of Load Balancers, Web servers, and application servers.
* Administered and managed a **Splunk** server to monitor both Windows and Linux physical and virtual environments. Automation/Simplification of Digital Guarding Process through **SPLUNK**.

**Environment:** Linux, UNIX, Microsoft Windows, LAMP, Veritas Volume Manager (VVM), Logical Volume Manager (LVM), TCP/IP, DNS, NFS, NIS, SAMBA, LDAP, SSH, SSL, SFTP, SMTP, SNMP, SVN, ZFS, Java, SQL, Oracle, Agile, Bash, Shell, WebLogic, WebSphere, Apache, Subversion, Splunk.

**Client: Netxcell, India June 2012 – April 2014**

**Role: JAVA Developer**

**Responsibilities**

* Involved in project planning sessions with business analysts and team members to analyze business IT requirements and translate business requirements into a working model.
* Implemented MVC, DAO J2EE design patterns as a part of application development.
* Used Multithreading to enable multiple operations to be performed simultaneously.
* Implemented Spring Framework using Spring Core for IOC, Spring AOP, and ORM modules for this project.
* Executed high-level and low-level documents.
* Used persistence mechanism developing object-relational mapping using Hibernate and worked on advanced features like JPQL and criteria-based querying.
* Developed web tier using Spring MVC, JSP, JavaScript, JSTL, Ajax, and HTML.
* Transferred data between different applications using XML, SOAP, and WSDL web services.
* Used Amazon Web Services as a cloud platform leveraging its services and EC2 Infrastructure.
* Designed and developed an e-signature module for the users to agree to the terms before using the application.

**Environment**: Java, Spring, Hibernate, Web Services, JavaScript, JSP, JSTL, PL/SQL, Ajax, SQL Server, Junit, AWS, EC2, Log4j, Eclipse, SVN.

**Client: Mitej Infotech LLP, India Jan 2012 – May 2012**

**Jr. Java Developer**

**Responsibilities**

* Identified business requirements of the project.
* Used CSS, HTML, JavaScript, JQuery, AJAX for creating interactive web applications.
* Involved in developing the CSS sheets for the UI Components.
* Used JavaScript for the web page validation.
* Implemented ModelViewController modules and design patterns.
* Developed and debugged the servlets and EJB with the WebSphereApplication server.
* Developed view components using JSP pages used in combination with servlets that handle business logic.
* Used SOAP for WebServices by exchanging XML data between applications over HTTP.
* Created and modified Stored Procedures, complex SQL Commands for the application using PL/SQL.
* Used ApacheLog4j Logging framework for logging a trace and Auditing errors in the application.
* Involved in troubleshooting bugs and debugging applications to enhance the performance of the application.

**Environment**: Java 5, J2EE, JSP, HTML, CSS, JavaScript, XSLT, Servlets, EJB, JDBC, WebSphere 7.0, Oracle 10g, PL/SQL