**Priyadharshini**

**SRE/DevOpsEngineer**

**Phone: 8566026859**

**Mailid:**priyadharshini.devops@gmail.com

**Professional Summary:**

* Around **8 years** of IT Experience as **Cloud/DevOps** Engineer comprising of Linux and System Administration with major focus on **AWS**, **Azure**, **OpenStack**, **Continuous** **Integration**, **Continuous Deployment**, Configuration Management, Build/release Management and Virtualization technologies which also includes Troubleshooting and Performance issues.
* Experience in diagnose, **troubleshoot**, and resolve global system and network issues, Designs, develops, and oversees implementation of end-to-end integrated systems, leveraging and supporting the company’s **SDLC**.
* Expertise in set up and build **AWS** infrastructure using resources **VPC**, **EC2**, **S3**, **RDS**, **DynamoDB**, **IAM**, **EBS**, **Route53**, **SNS**, **SES**, **SQS**, **Cloud Watch**, **Security Group**, **Auto** **scaling** and **RDS** using Cloud Formation templates.
* Working experience with **Azure** compute services, **Azure** **Web** **apps**, **Azure** **Data** **Factory** & Storage, Azure Media & Content delivery, Azure Networking, Azure Hybrid Integration, and Azure Identity & Access Management.
* Experience in Deploy and monitors callable infrastructure on Amazon web services (**AWS**) and managed servers on the Amazon Web Services (**AWS**) platform using Chef Configuration management tool.
* Good at **Cloud** **Administrator** on **Microsoft** **Azure** services like virtual machines, storage accounts, resource groups, Databases, VMSS, Data Factory, AKS, Private Links, Cosmos DB, Data bricks, Key vault, Log Analytics Workspace, App gateway, firewall etc.
* Expertise in virtualize the servers using **Docker** for the **dev** environments and production environment, also automated the deployment of **Docker** images.
* Created **Docker** Containers while leveraging existing **Linux** Containers and AMI's in addition to creating Docker images from the scratch.
* Extensively worked on Jenkins to implement Continuous integration (**CI**) and Continuous deployment (**CD**) processes using shared libraries.
* Implemented **Azure** **Databricks** to other Azure services (such as Azure Storage)in a more secure manner using service end points.
* Developed build & deployment scripts using **MAVEN**. Automated the process using plug in ailable in Jenkins to move artifacts across environments throughout the build & deploy process.
* Worked on the monitoring tools and visualization tools like Prometheus and Grafana and monitoring the **Kubernetes** **podmetrics** in regular intervals of time.
* Worked on **Kubernetes** cluster setup, upgrade and maintenance as required.
* Deployed multiple databases and applications using **Kubernetes** cluster management, some of the services are **Redis**, Nginx etc. And maintained **Kubernetes** to manage Containerized applications.
* Designed, built, and tested completely rebuilt infrastructure to move website from static hosting in Rackspace to containerized infrastructure as a code maintained in AWS utilizing automation tools and frameworks like **Ansible**, **Terraform**, **Kubernetes**.
* Experience on container management tools **Docker**, **Mesos**, **Marathon** and **Kubernetes**.
* Used **Python** **Scripting** with the help of **Ansible** **Python** **API** to Automate **Cloud** **Deployment** Process.
* Worked with **GIT** **Configuration**, Branching and Merging, resolved conflicts, Push changes etc.,
* Used **Ansible** as a configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and productively manages change.
* Skilled with container systems like **Docker** and **container** orchestration like **EC2** Container Service, **Kubernetes**, **AKS**, and automated with **Terraform** modules.
* Handled **Docker** orchestration and **Docker** containerization with the help of **Kubernetes**.
* Good knowledge and experience in using Elastic search and Cloud Watch, **Nagios**, **Splunk**, **Prometheus** and **Grafana** for logging and monitoring.
* Enlarged experience in setting up the **CI/CD** pipelines using **Jenkins** and **Azure** **DevOps**.
* Excellent communication skills, enthusiastic individual and a strong determination to do whatever it takes to get the job done and the strength to work efficiently in both in dependent as well as team work environments.

**Technical Skills:**

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| --- | --- |
| **Cloud Environments** | Amazon Web Services (AWS), Azure |
| **Configuration Management Tools** | Chef, Ansible |
| **Containerization Tools** | Docker, Kubernetes, Dockerswarm, OpenShift |
| **Virtualization** | VMWare, Windows Hyper-V, Virtualbox |
| **Operating Systems** | Linux(RedHat, CENTOS), Ubuntu, WindowsNT |
| **Automation Tools** | Jenkins, Azure DevOps, Bamboo, Terraform, Cloud Formation, ARM Templates |
| **Web Servers** | Apache HTTP, Nginx, IIS, ApacheTomcat |
| **Database** | AWSRDS, Aurora, DynamoDB, MySQL, MSSQLSERVER, MongoDB, DynamoDB |
| **Scripting languages** | Python, Ruby, Bashshell, PowerShell, JSON |
| **Networking/Protocol** | DNS,DHCP,WAN,TCP/IP,NIS,NFS,SMTP,LAN,FTP |
| **Version Control Tools** | GIT, Bitbucket, SVN, TFS |
| **Monitoring Tools** | NagiosXI, AppDynamics, Splunk, CloudWatch, ELK, NewRelic |
| **Volume Manager** | LVM, VERITAS |
| **Application Servers** | Oracle WebLogic, IBM WebSphere, JBOSS |

**Professional Experience:**

**Abbvie, Chicago - IL**

**SRE/DevOps Engineer Oct 2021 - Present**

**Responsibilities:**

* Experience in Designing and Implementing **Microsoft** **Azure** Solutions across a range of cloud models like a **SaaS**, **PaaS**, **IaaS**, and integrated on-premises, on-demand work loads with the **Azure** **public** **cloud**.
* Best practice in managing Azure infrastructure, Azure storage accounts and deploying workloads on Azure virtual machines(**VMs**), virtual networks, cloud services, resource groups, express route, traffic manager, VPN, load balancing, application gateways, auto-scaling and cloud services into secure **V-Netsand** subnets.
* Worked on **PowerShell** scripts to automate the installation and configuration on Windows nodes.
* Works with the team to develop, maintain, and communicate current development schedules, timelines and development status.
* Written **PowerShell** scripts to automate the application deployment through **Azure** **DevOps**.
* Migrating virtual environments **VMware** to **Azure** **cloud** using **ASR**.
* Created Web Apps on Azure portal for deploying web applications using **Azure** **DevOps** pipelines.
* Utilized **Kubernetes** for the runtime environment of the **CI/CD** system to build test deploy.
* Configured **VM sin** availability sets using **ARM** templates to provide resiliency for **IaaS** based solution and scale sets using **Azure** Resource Manager to manage network traffic.
* Perform troubleshooting and diagnosis of hardware/software network failures and provide **quickfix**.
* Extensively used **Splunk** as server monitoring tool to diagnose, debug and report the deployment issues.
* Extensive experience in installing, configuring and administering **Jenkins** **CI** tool on **Linux** machines. Used **Jenkins** pipelines to drive all.
* **Microservices** builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Good programming skills in **UNIX** **&** **Python**.
* Experience in configuring tools for SRE purposes like New **relic**, **Splunk**, **Elastic search**, **Kibana**, **Logstash**, **Grafana**, **Prometheus**, **CloudWatch**, **SNS**, **RMQ**, **AppDynamics**.
* Managing Database, Azure Data Platform services Azure Data Lake (**ADLS**), Data Factory (**ADF**), Data Lake Analytics.
* Experience in Web/Application servers such as **NGINX** (for software based load balancing), **Apache** and a solid background in **Linux** (ability of inspect h/w spec from linux) Bash programming.
* Experience in **APM** tool like AppDynamics logging tools like **Splunk**.
* Scheduled, deployed and managed container replicas onto anode cluster using **Kubernetes**.
* Configured **Azure** **cloud** services, **Azure** **Firewalls**, **Azure** **IAM**(SSO/MFA/RBAC), **Azure** **Active** **Directory**(AD).
* Worked on Azure Resource Manager (**ARM**), **Azure Storage**, **Blob Storage**, **AzureVMs**, **IIS**, **SQL Database**, Azure Functions, Service Fabric, Azure Monitor, and Azure Service Buset.
* Configured Azure Security using **RBAC**, Azure Security Center and Azure Monitor services.
* Configured Azure Infrastructure Automation using Run books and **Terraform** scripts.
* Configured Azure Active Directory, policies and IAM to manage users and groups privileges also user account management **(SSO/SAML)** and multifactor authentication.

**Environment:** Azure, Data Bricks, Data lakes, Azure Data factory, Jenkins, Packer, Docker, Kubernetes, Helm, Cloud Formation

**NovaSignal, Los Angeles - CA**

**SRE/DevOps Engineer May 2019 - Sept 2021**

**Responsibilities:**

* Designed, planned and implemented existing on premise applications to **AZURE** Cloud (**ARM**), Configured and deployed Azure Automation Scripts utilizing Azure stack Services and Utilities focusing on Automation.
* Configured and implemented storage blobs and Azure files - Created Storage accounts, Configured the Content Delivery Network (CDN), custom domain, Managing access and storage access key.
* Worked on Windows Azure Services like **PaaS**, **IaaS** and worked on storages like Blob (Page and Block), **SQL Azure**. Well experienced in deployment & configuration management and Virtualization.
* Developed and supported the Software Release Management and procedures. Worked on Subversion, Proposed and implemented branching strategy.
* Experience in **APM** tool like AppDynamics logging tools like **Splunk**.
* Used **Docker** for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on **Docker** using **Kubernetes**.
* Automated Installation and configuration of **Apache**, **Tomcat** servers using **Python** and supported implementations of **Kafka**.
* RabbitMQ message servers running **Linux** and Windows server.
* Created **CI/CD** Pipelines in **Azure DevOps** environments by providing their dependencies and tasks. Also have experience on implementing and managing continuous delivery systems and methodologies on AWS and created end-end **Automation** with CI Procedures using Jenkins & automated Maven builds by integrating them with Continuous Integration tools **Jenkins**.
* Developed Databricks ETL pipelines using notebooks, Spark Data frames, **SPARK SQL** and **python** scripting.
* Recreating existing application logic and functionality in the Azure Data Lake, Data Factory, **SQL** Database and SQL Data ware house environment.
* Creating Databricks notebooks using SQL, Python and automated notebooks using jobs.
* Experience in DWH/BI project implementation using Azure DF and databricks.
* Used various star schema **HBase** commands and generated different Datasets as per requirements and provided access to the data when required using grant and Revoke.
* Created Hive tables as per requirement as internal or external tables, intended for efficiency.
* Used cloud computing on the multi-node cluster and deployed **Hadoop** application on **Azure Cosmos DB** and worked on Spark.
* Used Hive to analyze Snowflake Lambda the partitioned and bucketed data and compute various metrics for reporting.
* Automated various infrastructure activities like Continuous Deployment using **Ansible** playbooks and has Integrated **Ansible** with Jenkins on **Azure**.
* Designed and implemented fully automated Server build management, monitoring and deployment by using technologies like Chef and **Ansible**.
* Developed automation scripting in **Python** (core) using Puppet to deploy and manage **Java** applications across **Linux** servers.
* Involved in **Jira** as defect tracking system and configured various workflows, customizations, and plugins for **Jira** bug/issue tracker integrated Jenkins with Jira, GitHub.

**Environment:** Azure, Data Bricks, Data lakes, Azure Data factory, Jenkins, Packer, Docker, Kubernetes, Helm, Cloud Formation, Python, Snow flake, Spark, ETL.

**eBay, Austin, TX**

**SRE/DevOps Engineer Jan 2016 - April 2019**

**Responsibilities:**

* Involved in design and deployment of cloud services on **AWS** such as EC2, Route53, S3, RDS, **DynamoDB**, SNS, IAM, simultaneously focused on high-availability, fault tolerance, and auto-scaling.
* Worked on building **Terraform** modules from scratch to deploy **AWS** infrastructure and worked on helm provider to deploy components onto pof **kubernetes** cluster.
* Have very good experience working on **Terraform** latest versions and its related interpolations.
* Used **Hashicorp** **Packer** to create and manage the **AMI's** and automated whole AMI creation process using Jenkins jobs.
* Developed strategy to migrate Dev/Test/Production from an enterprise VPC infrastructure to the **IaaS** platform Amazon Web Services (**AWS**).Configured multiple chef cookbooks, recipes, templates and attributes on workstations to be deployed to various chef nodes, **AWS** server provisioning using Chef Recipes.
* Redesigned infrastructure for high availability using multiple **AWS** availability zones and worked on setting up Disaster Recovery.
* Extensively worked with Scheduling, deploying, managing container replicas onto anode using **Kubernetes** and experienced in creating **Kubernetes** clusters and worked on **Helmcharts** to deploy resources.
* Configured **AWS IAM** and Security Group in Public and Private Subnets in VPC.
* Managed **Kubernetes** charts using Helm. Created reproducible builds of the Kubernetes applications, templatize **Kubernetes** manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helmpackages**.
* Developed microservice onboarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Designed roles and groups for users and resources using **AWS** Identity Access Management (**IAM**).
* Collaborate in the automation of AWS infrastructure via **terraform**, **ansible**, and **Jenkins**–installation of software and services configuration via chef cookbooks.
* Experience in implementing and maintaining the branching and build/release strategies utilizing **GIT** on **AWS**.
* Created a Python Script to stop all the instances with a specific **tagin** **AWS** Instance using Lambda functions and made it into Cloud Watch Scheduler.
* Managed **Linux** operating system, disk management and patch configurations on Linux instances in **AWS**.

**Environment: AWS ECS,** Route53, S3, RDS, DynamoDB, SNS, IAM, Terraform, Python, PowerShell, Kubernetes, AWS infrastructure.

**Information Solution PVT LTD, Hyderabad - India**

**Linux Administrator Nov 2014 – June 2015**

**Responsibilities:**

* Developed **Python** and Shellscripts for automation of the build and release process. Wrote automation scripts in shell and Python to enhance the **CI-CD** pipeline.
* Developed **PowerShell** scripts and **ARM** templates to automate the provisioning and deployment of various resources.
* Provisioned and configured virtual servers with **RedHat**, **CentOS**, **Oracle** **Linux** and windows also **OVF** templates.
* Build virtual machines using kickstart profiles, templates and **ISO** images.
* Worked in configuring and troubleshooting **Vsphere** Networking (VSS and VDS policies).
* Installation and Administration of **RedHat** & **SUSE** **Linux** on x86 Enterprise Servers for test lab, production and disaster recovery setup.
* Created and wrote shellscripts (**Bash**), **Perl**, **Python** and **PowerShell** for automating tasks.
* Implemented Windows **PowerShell** scripts to monitor the event logs of critical windows servers in real-time and filter for specific errors.
* Utilized Windows **PowerShell** to create amaster table of contents page for the desktop support knowledge base, allowing for expedited trouble shooting and research of reoccurring desk side issues.
* Wrote **bash** shellscript to create multiple accounts at once.

**Environment:** Python, Linux, Perl, Power shell, Shell Script Windows server