**DIVYA** 

**PROFESSIONAL SUMMARY**

* Associated with IT industry with 10 + years of experience working as **Cloud/DevOps Engineer** with a major focus on **Release Management**, **Software Development, Linux Systems Administration, Agile Software Configuration**
* Management (SCM) Build and Release Engineering, Deployment, DevOps Engineer, and Automation,deployment, documenting and support and trouble shooting.
* Experience with installation, configuring, deploying, troubleshooting, administration and maintenance of .net applications hosted on windows servers, IIs, SQL and Azure.
* Migration of web applications from Its 6.0,IIs 7.5 and 8.5 web servers.
* Built and implemented AWS IAM model at Visa including the design of standards and procedures.
* Manage server and application upgrades and patches per the BI platform Maintenance.
* Experience in system administration working on multi platform **VM ware, LINUX (Red hat), UNIX**.
* Extensible experience in setting up Baseline**, Branching, Merging, Develop and manage Pre-and Post-commit hook scripts;** provide support for parallel development using version control tools for various global and distributed teams.
* Created alerts and monitoring dashboards using Prometheus and Grafana for all micro-servicesdeployed in Azure.
* Monitoring stack based on Kubernetes (GKE, EKS, AKS, ACK): Prometheus Operator, Prometheus, Thanos, Exporters and Grafana.
* Has working knowledge of Redis cache, Backend experience, with data processing using No sql -Redis.
* Well experienced in deployment, configuration management and virtualization, maintenance andtroubleshooting applications on **Microsoft Cloud infrastructure AZURE** and **IBM Cloud.**
* Expertise in automation tools like **Git, Subversion, Maven, Jenkins, Chef, Puppet, Ansible, Terraform, Docker, Kubernetes and Nagios.**
* Experience in Cloud service platforms like **AWS, Azure, GCP** and **IBM Cloud.**
* Deployed infrastructure on AWS utilizing services such as **EC2, ELB, SNS, SQS, RDS, VPC, CloudFront**
* **Managed Network and Security, Route 53, Direct Connect, IAM, Cloud Formation, AWS Ops****Works** (Automate operations), Elastic Beanstalk, **AWS S3,** Glacier (Storage in the cloud) and Cloud Watch Monitoring Management.
* Responsible for the creation of **S3 buckets** and policies and for the creation of IAM role-based policies.
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Implemented **AWS Lambda** functions to run scripts in response to event in **Amazon Dynamo DB table, S3 bucket, HTTP requests** using **Amazon API Gateway.**
* Manage **Amazon Redshift clusters** such as launching the cluster and specifying the node type as well.
* Worked on **PowerShell/Bash scripts** to gather resources metrics from **AWS EC2 Instances,** and configured Alerts and Dashboards using **AWS CloudWatch** Monitoring**.**
* Having good experience with **AWS** Development utilizing tools like **Informatic and Tableau.**
* Wrote **ANSIBLE** Playbooks with **Python, SSH** as the Wrapper to Manage Configurations of **AWS**Nodes and Tested playbooks on **AWS instances** using **Python** and run **Ansible** Scripts to provision Dev servers**.**
* Good experience in writing of **Cloud Formation Templates (CFT)** in **JSON and YAML** format to build the AWS services with the paradigm of **Infrastructure as a Code**.
* Server configure management via Chef. Experience in Setting up Chef Workstation, Working with ChefCookbooks, Chef Recipes, Chef attributes.
* Expertise in using **Docker including Docker Hub, Docker Engine, Docker images**, compose, swarm, and Docker
* Experience in using **Docker** and setting up ELK with **Docker and Docker-Compose**. Actively involved in deployments on Docker using **Kubernetes.**
* Installed and configured automated tool **Puppet** that included the installation and configuration of the**Puppet master**, agent nodes and an admin control workstation.
* Hands on experience with puppet manifests for deployment and automation and have integrated Puppet with **Jenkins** to fully deploy on to a **Jenkins server** to provide with continuous deployment and testing to automate deployment of infrastructure.
* Hands on experience with testing frameworks Junit, Selenium, for setup build and delivery pipeline.
* **Experience with Cloud Foundry** comes with a number of system build packs for commonly used frameworks - Node.js, .Net core and more.
* Ability to write and debug scripting like **Shell, Python, Ruby, Perl, JavaScript** and Applied servers like **Tomcat, WebLogic, WebSphere, JBOSS** to deploy code Implementation.
* Experience in creating and managing user accounts, Security policies, Rights, Disk spaces, Disk quotas and Process monitoring in **CentOS and Red Hat Linux.**
* Experience in configuring **NIS, DNS, DHCP, NFS, SAMBA, FTP**, Remote Access Protocol, Security Management,
* Security trouble shoots and SOA-based applications. Expertise in installations of SQL server, MYSQL server and PostgreSQL.

**Certification: AWS Certified Developer – Associate TECHNICAL SKILLS:**

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| --- | --- |
| **Operating systems** | RHEL-5/6/7, Fedora, SUSE, UNIX, Win-Server, CentOS |
| **Automation & Conﬁguration Management Tools** | Jenkins, Chef, Ansible, Docker, Terraform, Vagrant, Kubernetes. |
| **Cloud Services** | AWS, Azure, IBM Cloud, GCP. |
| **Build Tools** | Maven, Ant, Gradle, Docker, MS Build, GRUNT, Rundeck. |
| **Applica&on Servers** | IBM WebSphere, Tomcat, Boss, Oracle WebLogic. |
| **Version control tools** | GIT, GitLab, GitHub, Bitbucket |
| **Database System** | MS SQL Server, MySQL, MongoDB, Oracle 12, Snowﬂake, Teradata |
| **Web servers** | Apache, Tomcat, Web Logic (8/9/10), Web Sphere4.0/5.0 |
| **Scrip&ng** | Perl, Python, JavaScript, Ruby, Bash shell, Power shell. |
| **Monitoring Tools** | Nagios, CloudWatch, Splunk, ELK-Xpack, SignalFX |
| **Programming Languages** | Visual Studio .NET, Java, C, C++, Python |

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| **Web Programming** | HTML5, CSS, JavaScript |

**WORK EXPERIENCE:**

**Client: VISA, Austin TX**

**Role: DevOps Engineer June 2021 – Present**

**Responsibilities:**

* I have written templates for Azure Infrastructure as code using Terraform to build staging and production environments and I used to manager Azure Infrastructure Azure Web Roles, Workers ,VM Role, Azure SQL, Azure storage, Azure AD Licenses,
* I have expertise in Architecting and implementing Azure Service offering such as Azure cloud services offering,such as Azure cloud services,Azure storage,IIS,Azure Active Directory,Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* I have Hands-on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing and I even integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers and also I have performed bulk load of JSON data from s3 bucket to snowflake.
* I have Designed Stacks using Amazon Cloud Formation and GCP templates to launch AWS Infrastructure (PaaS, IaaS, Faas & SaaS) and resources and  developed AWS Cloud Formation templates to create custom sized VPC, EMR, Dynamo DB, subnets, EC2 instances, ELB and security groups.
* I have played a key role in automating the deployments on AWS and GCP using GitHub, Terraform, Puppet, Chef and Jenkins.
* I even have experience in Administration/Maintenance of source control management systems, such as Sub Version, Bit bucket and Git and also implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all micro services and later used Docker file to build the Docker images from the java jar files and I even worked with Nagios for Azure Active Directory & LDAP and Data consolidation for LDAP users and monitored system performance using Nagios, maintained Nagios servers, and added new services & servers.
* Created and managed multiple Instances of Apache Tomcat and deployed several test applications in this instances in QA environment.
* Created Terraform scripts to move existing on-premises applications to cloud
* Worked on Chef Server management console and understanding and 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 Web-sphere/Tomcat Application Server Clustered Environments and handling Load Balancingfor QA, UAT and Production.
* App Dynamics enables you to observe and visualize your full technology stack, from database and server to cloud-native and hybrid environments. This enables you to optimize your applications by managing key business metrics, Application Programming Interfaces (APIs), code-level issues and conversions.
* Worked with Nagios and Oracle Enterprise Manager Console for application status monitoring.
* Worked with development and operations teams to implement IaaS pipelines using Chef.
* Worked with server virtualization and implementation of clusters with Infrastructure as a Service (IaaS).
* Written several cookbooks with more than of 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 &amp; ELB.
* Automated build and deployment to widely server using Jenkins and Run deck.
* Implement Jenkins Integrations with release management software/Deployment tool such as Run deck.
* Installed and configured code rules, keys of Sonar cube for code analysis and created of Sonar cube dash boardsfor different team members based on their roles to monitor the progress of project source code.
* Worked on creating of 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.
* Implementing a continuous Delivery Framework using Jenkins, Ansible, Maven and Nexus in Linux environment and performing the scheduling of various automated jobs using Run deck.
* 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 &amp; environments, written 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 &amp; based on Release methodologies.
* Expertise in the Jenkins plugin management areas and implemented several CI / CD plugin like AWS EC2, buildpipeline, Docker, Git, J unit 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.
* Implemented CI for several demanding consumer facing applications with bi-weekly releases with Jenkinsintegrating Git, maven, Run deck, chef and deployment tasks.
* Contribute to and implement the technical design as part of a Scrum team on a global Asset Servicing project, providing innovative solutions to complex problems
* Provide designs and implement solutions for defined user stories
* Ensure units of work align with the strategic design for the application

**Environment:** Azure, Chef, Puppet, GIT, SVN, Jenkins, JIRA, Oracle,

Shell, Ant, Maven, SonarQube, Java, Linux.

**Client: IBM, Austin TX Oct 2020 - Mar 2021**

**Role : Sr. DevOps Engineer**

**Responsibilities:**

* Created calico policies to implement **Boundary Protection** using **Cloud-flare** for Dev, Stage and Prod environments.
* Used Calico policies to block incoming traffic to service script in Jenkins.
* As part of chaos engineering task established common practices for GLB to minimize cluster failover time.
* Performed load balancing test for applications uses based on traffic source or destination.
* Automated IKS cluster calico policies validation using python , J **Meter**.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, configMaps, deployments.
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes.
* Worked on rolling back to an earlier deployment when instability happens using **Kubernetes.**
* Use of OOPs concepts and other core Java concepts like multithreading/concurrency, inheritance and development.
* I have written templates for Azure Infrastructure as code using Terraform to build staging and production environments and I used to manage Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
* I even expertises in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* I have Hands-on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing and I even integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers and also I have performed bulk load of JSON data from s3 bucket to snowflake.
* In **Docker** container deploying micro services, and scaling the deployment using **Kubernetes**
* Implemented **Jenkins and built pipelines to drive all micro service builds** out to the Docker registry and then deployed to Kubernetes.
* Working closely with DevOps Architects to analyze, review and clarify design and architecture on tools implementation, Build and Deploy automation.
* Good level of understanding on code versioning tools, such as Git and GitHub.
* Strong knowledge and experience on Disaster Recovery exercises and performance tests.
* Responsible for Code merging using **GITHUB** pull requests and Conflict resolutions.
* Designed and maintained code repositories in **GITHUB** and defined workflows as per the release process.

**Client: NRS, Woburn , MA Mar 2018 – Aug 2020**

**Role: Sr. DevOps/Cloud/AWS Engineer**

**Responsibilities:**

Amazon Web Services – **AWS (EC2, EBS, S3, VPC, RDS, IAM, API Gateway, CloudWatch).** Spinning up machines that are clustered together to form a small network of machines for deployment and deploying a network of machines into AWS

* Involved in designing and deploying multiple applications utilizing almost all of the **AWS stack (Including EC2, Route53, S3, RDS, ECS, Dynamo DB, SNS, SQS, IAM, CloudFront)** focusing on **high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.**
* **Aws Development utilizing tools like Informatic and Tableau.**
* Container-based solutions management **(Docker, Kubernetes)**
* Responsible for developing application code to process billions of records into and out of our data lake.
* Develop custom modules and interfaces in C#.NET technologies
* Deployment of Back-end tools for websites so called CMS using ASP.NET, VB.NET, C and SQL server stored procedures and tables.
* Use of OOPs concepts and other core Java concepts like multithreading/concurrency, inheritance and develpoment.
* Responsible for using **Shell Scripting**, programming for an application development
* Worked on Continuous integration tools **Jenkins. CI/CD** pipeline automation using Jenkins which includes configuring
* Write Ansible playbooks for **Automation of AWS services** while integrating with Apigee platform
* Write **Terraform scripts for Automation** and hands-on experience with Ansible. Worked with Ansible for configuration management.
* Working on Identity Management (Active Directory) and. IT security policies, procedures
* Deploy and manage enterprise API Gateway and related solutions in **AWS.**
* Develop enterprise APIs and shared technology solutions.
* Develop integration software deployment **automation scripts.**
* Responsible for Any major issues with **the Code, Modifications / change in Source data type** warrants rewriting the application code.
* Responsible for developing automation testing and execute **unit test cases**. Perform test plan preparation for unit and **automation testing**.
* Responsible for developing and maintain project documentation.
* Develop custom modules and interfaces in C#.NET technologies
* Deployment of Back-end tools for websites so called CMS using ASP.NET, VB.NET, C and SQL server stored procedures and tables.
* Operations responsibilities include moving code from **Dev/ Test to Staging and Production**
* Develop **web service API and proxy best practices**, documentation, educational material and reusable components.
* Maintain hardware/software revisions, **security patches, processes and documentation**.
* Support daily operations including on-site and **remote user issue resolution**, account maintenance, permission management, code deployments and security and providing assistance to team members.
* Providing after hours coverage as required by being on call and available to respond.

**Client: Cap Gemini, GA Jan 2015 – Feb 2018**

**Role: DevOps/Cloud/AWS Engineer**

**Responsibilities:**

* Experience as **Cloud Engineer** project teams that involved different development teams and multiple simultaneous software releases.
* Design of **Cloud architectures** for customers looking to migrate or develop new **PaaS, IaaS**, or hybrid solutions utilizing Amazon Web Services **(AWS).**
* **Installed, Configured** and **Maintained** RedHat Linux (**RedHat Enterprise Linux 5.x, 6.x& 7.x**) on SPARC, x86 and Blade Centre’s.
* Involved in designing and deploying multiple applications utilizing almost all of the **AWS stack (Including EC2, Route53, S3, RDS, ECS, Dynamo DB, SNS, SQS, IAM, CloudFront)** focusing on **high- availability, fault tolerance, and auto-scaling in AWS Cloud Formation.**
* Responsible for taking the source code and compiling using **Maven** and package it in its distributable format, such as a **WAR file**.
* Managed different infrastructure resources, like physical machines, VMs and even **Docker** containers using Terraform It supports different Cloud service providers like **AWS**.
* Built **Jenkins** jobs to create **AWS** infrastructure from GitHub repos containing Terraform code.
* Configure ELK stack in conjunction with **AWS** and using Logstash to output data to **AWS** S3.
* Involved in **AWS** EC2/VPC/S3/SQS/SNS based automation through Terraform, **Ansible**, Python, Bash Scripts. Adopted new features as they were released by Amazon, including ELB & EBS.
* DevOps role converting existing **AWS** infrastructure to Server-less architecture (**AWS** Lambda, Kinesis)deployed via terraform.
* Automated various infrastructure activities like Continuous Deployment, application server setup, stack monitoring using **Ansible playbooks**.
* Wrote **ANSIBLE** Playbooks with **Python SSH** as the Wrapper to Manage Configurations of OpenStack Nodes and test Ansible Playbooks on AWS instances using Python. Worked in DevOps group running Jenkins in a **Docker container** with EC2 slaves in AWS cloud configuration.
* Focused on containerization and immutable infrastructure. **Docker** has been core to this experience, along with **Kubernetes**. Experienced in using **Docker Swarm** and deployed spring boot applications.
* Developed container support for cloud environments and **Docker.** Deployed the applications in **Docker****containers** and managed the containers in enterprise level.
* Created **Docker images using a Docker file**, worked on **Docker container snapshots**, removing images and managing **Docker volumes**.
* Created **Docker file** for each microservices and changed some of the **Tomcat configuration file** which arerequired to deploy Java based application to the Docker container.
* Providing automation and deployment of applications inside software containers by providing additional layer of abstraction and automation of operating system level virtualization on Linux using Dockers.
* Expertise in integrating **Terraform with Ansible**, Packer to create and Version the AWS Infrastructure. Created **Docker images that handled Tomcat installation** using major versions on the existing Maven- based image and then worked on building and testing these images.
* Automated Compute Engine and **Docker** Image Builds with **Jenkins** and **Kubernetes**.
* Integrated **Docker** container orchestration framework using **Kubernetes** by creating pods, config Maps, deployments.
* Worked on rolling back to an earlier deployment when instability happens using **Kubernetes.**
* Used Docker container for deploying micro services, and scaling the deployment using Kubernetes
* I Configured and monitored distributed and multi-platform servers using Nagios. Worked on User administration setup, maintaining account, Monitor system performance using **Nagios, Grafana**
* Develop custom modules and interfaces in C#.NET technologies
* Deployment of Back-end tools for websites so called CMS using ASP.NET, VB.NET, C and SQL server stored procedures and tables.
* Wrote python scripts for implementing **Lambda functions**. Created API as a front door application toaccess data or functionality from backend services running on EC2 and code running on Lambda or any web application.
* Created Log collection in **ELKB (Elasticsearch, Logstash, Kibana, File beat)** installed File beat on allnodes in cluster to send log data to Logstash. Applied filters on log data before sending to Elasticsearch.
* Extensive working knowledge on automation for deployment/ configuration of different Application servers like WebLogic, JBoss, Web Servers like Apache, Tomcat and Web Containers like Nginx etc.

**Client: ECIL, INDIA June 2013 – Dec 2014**

**Role: SQL Developer**

**Responsibilities:**

* Responsible to work with other SQL developers to develop and extend data modeling to provide flexible and efficient access to information
* Perform tests and conduct code reviews with other team members to make sure your work is resilient, **elegantly coded**, and **effectively tuned** for performance
* Manage and contribute to all aspects of application development including functional and technical specifications, design, development, and production support
* Wrote **T-SQL Queries** and procedures to generate **DML Scripts** that modified database objects dynamically based on inputs.
* Experiences in using app dynamics as application performance monitoring tool, installing **Java and python** server agents in the application environment.
* Implemented a metrics collection mechanism for the server by utilizing **Apache Kafka** to stream server-side events to Google Analytics allowing for deeper insight into customer deployments.
* Experience on Splunk **Enterprise Deployments** and enabled continuous integration on as part of configuration management
* Administered Linux servers for several functions including managing **Apache/Tomcat server**, Mail server and MySQL databases in both development and production.
* Experienced in installation and configuration of Volume Management and file system through Veritas **Volume Manager (VVM)** and **Logical Volume Manager (LVM)** in Linux.
* Developed procedures to import data from vendors on status and Created data extracts for billing using TSQL
* Created data extracts from **SQL server into CSV, TXT** and MS Excel files

**ACADEMIC PROFILE:**

Bachelor of Technology in Computer Science (B. TECH) April 2013

Jawaharlal Nehru Technological University, India