**Sr. AWS/Azure/SRE/ Architect/ Lead/Engineer**

**PROFESSIONAL SUMMARY:**

* A Dedicated **Aws Infrastructure Architect**, with 13**+ years** of experience as Aws Architect and build & release DevOps engineer working to automate the process for Increasing the Agility and Quality of Software Releases with deep expertise in Automation/Command line Tools, VCS, Code Review/Quality Tools, CI/CD Pipelines, Public/Private Clouds, Infrastructure as Code, different App/Web Servers towards code compilation, packaging, building, debugging, automating, managing, tuning and deploying code across multiple environments
* Hands on Experience in Infrastructure automation on AWS using Terraform, Python boto3 and AWS CLI.
* Managed security on the AWS infrastructure using AWS Security Groups and Network Access Control Lists.
* Configured AWS security groups and Network ACLs policies for additional layer of security
* Experience in Scaling up or down AWS resources based on the demand.
* AWS Multi account management using control tower and SCP.
* Good experience working on Ecommerce.
* Experience in using AWS Transfer Family service to move the on-prem data to AWS via SFTP
* Hands on experience in using AWS Storage gateway and Datasync
* Hands-on experience in designing proper traffic routing into and out of our AWS Virtual Private Cloud – VPC.
* Built EKS cluster on AWS cloud in different environments
* Expertise in every phase of **SDLC** (Software Development Life Cycle), Experience as a Build and Release Engineer in automating, building, deploying, and release of code from one environment to other environment.
* Expertise in managing AWS , Azure & GCP cloud computing environments utilizing AWS services VPC, EC2, IAM, S3, ELB, AutoScaling, ROUTE53, RDS and GCP’s VPC, IAM, GCE, GKE, GCS
* Good Experience on Cloud technologies including Infrastructure as a Service, Platform as a Service, and Software as a Service provider (**IaaS, PaaS, and SaaS**).
* Installing and configuring kafka and monitoring the cluster using Nagios.
* Created Kafka topics, provide ACLs to users and setting up rest mirror and mirror maker to transfer the data between two Kafka clusters
* Experience of Pivotal Cloud Foundry and cloud technologies.
* Expertise in Amazon Web Services (**EC2, S3, VPC, Route 53, VPCs, , Load Balancers, Subnets, Peering EBS, ELB, NACLs, IAM, AMI, Security Groups, Cloud Watch, Cloud Trail, VPC Endpoints Cloud Formation, Auto Scaling etc**.)
* Expertise on Architecting and securing the Infrastructure on AWS using **IAM, KMS**, **Cognito**, **API Gateway**, **Cloud Trail**, **Cloud Watch**, **Config**, **Trusted Advisor, Security Groups, NACL**etc.
* Good experience in installing and administrating **CI tools** like **Jenkins**, **Bamboo** and other Tools like **SonarQube**, **Jfrog** & **Atlassian** stack of tools like JIRA , BITBUCKET, CONFLUENCE ,CROWD etc**.**
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) and **CI/CD** in **Agile**, **SCRUM**, **Waterfall** methodologies.
* Responsible to Configuring and managing Virtual Machines, Storage, network and applications using Windows Azure portal.
* Good Experience in migrating on premise to Windows Azure using Azure Site Recovery and Azurebackups.
* Involved in migrating SQL Server databases to SQL Azure Database using SQL Azure Migration Wizard and then Deployed application to Azure Cloud
* Worked as Build and release engineer in field of release automation for java/.Net application to achieve continuous integration (CI) and continuous delivery (CD). Worked on Google Cloud Platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Expertise in working with virtualization technologies like **Docker and Kubernetes.**
* Expertise working on **Docker hub,** creating **Docker images** and handling multiple containers as a cluster with **Docker Swarm** for various applications written in **NodeJs** and several micro services.
* Expertise in writing **Ansible** playbooks to automate application installation and configuration management and administration of several numbers of servers in large scale.
* Expertise in Writing **Chef Cookbooks** and **Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Expertise with **AWS Cloud Formation**, and **Terraform** API to create infrastructure on AWS as a code.
* Expertise in Querying RDBMS such as **Oracle**, **MY SQL** and **SQL Server** by using **PL/SQL** for data integrity.
* Experience with scripting languages like **Python** and **Bash**.
* Setup code repositories like **SVN, Git, TFS** performing all the build and release management activities such as **Merging, Branching, Tagging** and managed plug-ins for **Jenkins** for scheduled automatic code checkout.
* Good Experience in working with multi platforms like **Ubuntu, RHEL, CentOS, iOS and Windows 98/NT/XP/Vista/7/8** of production, test and development servers.
* Experience in developing the **Pom.xml, Build.xml** files for **Maven** projects by integrating with the Continuous integration dashboard and from the CLI.
* Experience implementing and administering monitoring tools **ELK , Prometheus , Grafana ,alertmanager , greylogs and Nagios.**

**CERTIFICATIONS:**

**AWS Certified Solutions Architect – Associate**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Skill Area | Technical Skills |
| Scripting Languages | Bash and Python |
| Continuous Integration Tools | Jenkins/Hudson, Bamboo |
| Virtualization Technologies | Docker ( ECS & Kubernetes ) |
| Configuration Management | Ansible, Puppet |
| Source Code Management Tools | Git, GitHub, Subversion (SVN), Bit Bucket. |
| Cloud Platforms | AWS(EC2, EMR, S3, CLOUD FORMATION, ELASTIC BEANSTALK, SNS, OPSWORK, ELASTIC CONTAINER SERVICE, RDS, DYNAMODB, CLOUD FRONT, Route 53, VPC, IAM, SQS, SWF, CLOUD\_TRAIL), Azure |
| Web & App Servers | IIS, Apache, Tomcat, Nginx, Web Sphere and JBoss. |
| Build Tools | Ant, Maven, Gradle. |
| Monitoring Tools | **ELK , Prometheus , Grafana ,alertmanager , greylogs and Nagios.** |
| Testing Tools | JUnit, Selenium Grid automation |
| Database System | MySQL, Posgress, Oracle PL/SQL. |
| SDLC | Agile, Scrum, Waterfall |
| Bug Reporting Tools | Jira , Rally |

**PROFESSIONAL EXPERIENCE:**

**Sun Trust Bank - Atlanta, GA**

**Jul’ 2020 – Present**

**Sr. Aws Infrastructure Architect/SRE/Azure Engineer**

**Responsibilities:**

* Involved in designing and deploying applications utilizing **Amazon Web Services** like **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM** focusing on high-availability, fault tolerance, and auto-scaling in Cloud formation.
* Implemented Security in Web Applications using Azure and Deployed Web Applications to Azure.
* Configured BGP routes to enable Express Route connections between on premise data centers and Azure cloud.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Machines,Azure Active Directory, Azure Storage) for Microsoft Developers Network including Partners and MVPs.
* Experience Microsoft Azure date storage and Azure Data Factory, Data Lake
* Designed and managed public/private cloud infrastructures using Amazon Web Services (AWS) which include EC2, S3, Cloud Front, Elastic File System, RDS, VPC, Aws Direct Connect, Route53, Cloud Watch, Cloud Trail, Cloud Formation, and IAM which allowed automated operations.
* Played a leadership role for implementing infrastructure projects of eCommerce.
* Developed **micro services** on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Launched DNS, Route 53 and AWS/PCF Elastic Load balancer (ELB) and assigned AWS/PCF SSL Certificates to Servers
* Created and wrote shell scripts (ksh, Bash), Ruby, Python and PowerShell for setting up baselines, branching, merging, and automation processes across the environments using SCM tools like **GIT, Subversion** (SVN), Stash and TFS on Linux and windows platforms.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of GCP nodes and Tested Playbooks on AWS instances using Python. Run Ansible Scripts to Provide Dev Servers.
* Wrote custom Terraform modules for automated provisioning of various AWS services/resources like IAM, VPC, Subnets, EC2, EBS, RDS, S3, Glacier, Lambda, ELB, Auto Scaling, Elastic Beanstalk, Route 53, CloudFront, CloudWatch, CloudTrail, SQS and SNS, Lambda, Kinesis, EMR, EKS, Amazon Connect, API Gateway, EKS
* Implemented and designed AWS virtual servers by **Ansible** roles to ensure deployment of web applications.
* Used eCommerce to automate and integrate the processes of software development and IT operations, leading to faster and more reliable software delivery.
* Experience in working with **GIT** to store the code and integrated it to **Ansible Tower** to deploy the playbooks.
* Experience in setting up the **Chef repo**, **Chef Work** stations and **Chef Nodes**. Experience in working with **data bags, attributes, cookbooks, recipes and templates.**
* Experience in writing automated unit test functions in GO Lang to cover the API code and GO based Rest clients for consuming the rest services in GO Lang. Developed Golang API and chat-bot using TDD to automate software deployments and rollbacks using GitHub webhooks and used Golang to create backend servers.
* Used BOTO and Fabric for launching and deploying instances in AWS Lambda, Hands on Experience in writing JSON REST APIs using Go Lang.
* Used Go Lang to create backend servers. Developed Micro services using Go language and developed corresponding test cases
* Managing the configurations of more than 500 servers using **Chef**, configured **Jenkins builds** for Continuous Integration.
* Troubleshoot and fixed issues involved with Go Lang, implemented slack notifications to automatically notify developers about the issues.
* Configured the Auto scaling and ELB groups in AWS/PCF to main high scalable and secure environment.
* Integrated **Confluence, Bamboo, Bitbucket** with JIRA and bamboo for the tracking of the issue and continuous integration.
* Responsible for developing the test automation scripts using **Selenium** WebDriver.
* Implemented GCP cloud solutions cloud SQL, storage bucket, cloud DNS, GKE Auto scaling groups in k8s cluster.
* Designed and created multiple deployment strategies using **CI** and **CD** Pipelines and **Configuration Management** tools with remote execution to ensure zero downtime and shortened deployment cycles via automated deployments in **Jenkins**.
* Plan the implementation of a project, determine the architecture, and lead the technical team in implementation of the project as part of the eCommerce Infrastructure Project Delivery Team.
* Build scripts using **Ant** and **Maven** build tools in **Jenkins** to move from one environment to other environments.
* Scheduling jobs using **Ansible Tower** Experience and writing Python modules for **Ansible** customizations
* Maintained **Jenkins** continuous integration infrastructure and automated releases to **DEV/TEST/STG/PROD** environments.
* Implemented Build per Branch as part of **CI** process in **Jenkins** to run **SonarQube** for code coverage and run unit and integration tests to help improve the pipeline efficiency.
* Involved in the build automation by using **Shell, Bash, Perl, and Python**.
* Implementing AWS Direct Connect to establish dedicated connection to private datacenters and AWS Cloud to meet applications higher data bandwidth and performance of applications access.
* Enhanced, fixed functional and performance related bugs in core product written in **GO (Go Lang).**
* Worked on creation of custom **Docker** container **images, tagging** and **pushing** the images and **Docker consoles** for managing the application life cycle.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes**, utilized Kubernetes and Docker for the runtime environment of the **CI/CD** system to build, test deploy.
* Configured application servers **(JBOSS)** to deploy the code. Configured plug-ins for the integration tools to the version control tools.
* Managed **Jira** users and Created workflows, Issue types, fields in production, customizing dashboards and reports and searches using **JQL** (JIRA Query Language)
* Worked with administrators to ensure **Splunk** is actively and accurately running and monitoring on the current infrastructure implementation.

**Environment:** AWS, Ansible, Jenkins, GCP, Docker, Kubernetes, ANT, Maven, GIT, PCF, Nexus, Perl, Bash, Shell Scripts, Helm

**Morgan Stanley, NYC, NY**

**Jan’ 2018 – Jun’ 2020**

**Sr. Aws Infrastructure Architect/SRE/Azure Engineer**

**Responsibilities:**

* Designed and deployed a highly available and fault tolerant infrastructure on **AWS** using terraform modules, these modules installs a web application in public subnet and database in private subnet which can communicate using the local route table in the VPC.
* Implemented AWS Auto scaling groups, Elastic Load Balancing**, S3, EBS, EFS, Route 53, VPC, SNS**, CloudWatch and ec2 under AWS.
* Used **Terraform** in AWS Virtual Private Cloud to automatically setup and modify settings by interfacing with control layer.
* Developed **Groovy** scripts for java application deployment by using Jenkins.
* Developed, coded, tested, debugged and deployed the in Pivotal Cloud Foundry.
* Bamboo plan creations and tasks configuring with automatic bamboo deployments
* Created bitbucket repositories including merging and building feature branches
* Responsible for creating & Managing **Dockerfiles** for creating necessary base images used for automation of build & deployment environments.
* Designed scalable and highly available Domain Name System (DNS) within AWS Cloud to route traffic to AWS Cloud from users connected using AWS Direct Connect for larger deployments
* Created Jenkins pipeline jobs using **Groovy** Jenkinsfile. Pipeline provides Build as a code option to perform end to end process of source code, building and deployment in different environments.
* Building, designing and implementing scalable cloud-based web applications for PaaS, IaaS and SaaS using Google Cloud Platform (GCP).
* Integrated **Confluence, Jenkins, Bitbucket** with JIRA and bamboo for the tracking of the issue and continuous integration
* Used **Ansible / Ansible Tower** as Configuration management, to automate repetitive tasks, quickly deploy critical applications, and proactively manages change and wrote Python Code using **Ansible** Python API to Automate Cloud Deployment Process
* Creating, Listing, Renaming, Updating, Deleting , Binding or unbinding a service in Pivotal Cloud Foundry.
* Enable the adoption of Cloud Technologies Especially **OpenShift** (PaaS).
* Experience in creating **Docker** Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch
* Troubleshooting and monitoring of various proprietary Acxiom and Third-party applications using Splunk and Cloud Watch in the Amazon Web Services (AWS) And GCP environment.
* Played key role in implementing AWS Direct Connect to establish dedicated connection to private datacenters and AWS Cloud to meet applications higher data bandwidth and performance of applications access
* Deployed microservices, including provisioning AWS environments using Ansible Playbooks. Designed, Installed and Implemented Ansible configuration management system
* Worked on installation of **Docker** using **Docker** toolbox. Server setup and nginx including F5 load balancing.
* Developing **Docker** images to support Development and Testing Teams and their pipeline
* To achieve Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing tool Nginx.
* Developed Build pipeline using **Groovy.**
* Responsible for developing the test automation scripts using **Selenium** WebDriver.

**Environment:** AWS, Ansible, Chef, Jenkins, Docker,PCF, Kubernetes, Terraform, ANT, GCP, Maven, GIT, Nexus, Perl, Bash, Shell Scripts, Yaml, Splunk, SonarQube, Go Lang, Python, JBOSS, MySQL, Selenium, JIRA.

**Vertafore - Denver, CO**

**Jan’ 2015 – Dec’ 2017**

**Role: Sr. DevOps/Aws Azure Engineer**

**Responsibilities:**

* Launching Amazon **EC2** Cloud Instances using Amazon Web Services (**Linux/ Ubuntu/RHEL**) and Configuring launched instances with respect to specific applications.
* Managed **Ubuntu** Linux and Windows virtual servers on **AWS EC2** using Open-Source **Chef** Server, migrating a production infrastructure into an Amazon Web Services VPC utilizing AWS Cloud Formation, EC2, S3, Chef/Ops Works, Cloud Watch, Cloud Trail, EBS, Route 53, IAM etc. This included migrating several production MySQL databases into RDS.
* Designed, deployed, maintained and lead the implementation of Cloud solutions using Microsoft Azure and underlying technologies.
* Deployed the initial Azure components like Azure Virtual Networks, Azure Application gateway , Azure Storage and Affinity groups.
* Configured VM networking with reserved IPs, Health Monitors, Firewall rules, VM scale sets and availability sets in the Azure Cloud.
* Deployed mircoservices, including provisioning Azure environment.
* Troubleshooting the Azure Development, configuration and Performance issues.
* Involved in working with **DevOps** team on configuration management using **Chef**, **Puppet**. Performed the automation using **Chef** Configuration management and managing the infrastructure environment with **Puppet** to several platforms including **VMware, AWS**.
* 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&ELB with Chef Cookbooks.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins and GitHub** and **AWS** AMI's, whenever a new **GitHub** branch gets started, **Jenkins**, our Continuous Integration server, automatically attempts to build a new **Docker** container from it.
* Create **Chef** Automation tools and builds, and do an overall process improvement to any manual processes.
* Involved in maintaining the dev, QA servers by using **Puppet** as a configuration management tool by writing **manifests**, maintaining groups for different OS platforms, **deploying** the class for a specific group etc. performed Kernel / Firmware upgrade on **Linux/AIX/VMware**.
* Branching, Tagging, Release Activities on Version Control Tools: **SVN, GitHub.**
* Manage the **Subversion** branching strategy for a few applications by creating Release branches, Development branches thus ensuring the integrity of trunk.
* Experience with Build Management tools **Ant and Maven** for writing **build.xmls and pom.xmls**.
* Extensively worked with various scripting languages like **Bash, Perl, Shell, Ruby, PHP and Python.**
* Experienced in build and deployment of **Java** applications on to different environments such as QA and Production.
* Deployed Applications into Prod & Pre-Prod environments with various Application server technologies like **WebLogic**, **Apache Tomcat**.
* Implemented unit testing framework driven using **Junit and Cucumber.**
* Coordinated with the Offshore and Onshore teams for Production Releases.

**Environment:** AWS, Tortoise SVN, GitHub, Chef, Puppet, Docker, Java, ANT, Maven, Apache Tomcat, JBoss, Nginx, Junit, Cucumber, Bash, Shell, Perl, Python, PHP, Ruby.

**Transit Wireless, NYC, New York**

**Feb 2010 - Dec 2014**

**Role: DevOps Aws Engineer**

**Responsibilities:**

* Designed and Implemented, migration of existing Data-center Applications and databases onto **AWS Cloud.**
* Worked on AWS infrastructure tools, scheduled backup automation and testing.
* Designed and implemented **Subversion (SVN**) metadata including elements, labels, attributes, triggers and hyperlinks.
* Maintained Build and release software baselines, code merges, branch and label creation and interfaced between development and infrastructure.
* Build and deliver custom service patches (Cherry-picking a range of commits from other Releases) to customers.
* **Automated deployments** across all environments using **Udeploy and Jenkins**.
* Used **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on the source code.
* Deployment and monitoring of scalable infrastructure on **Amazon web services** (AWS) & configuring management using **puppet**
* Configured **Puppet master**, client and wrote scripts for deploying applications on QA, Dev production environment.
* Configured **Puppet** modules for Upgrading the Linux kernel, installing and managing Java versions and managing persistent SSH tunnels.
* Worked on using **Puppet to manage Web Applications, Configuration Files, Data Base, Packages** and involved in managing the Amazon Web Services through AWS Console and API Integration with **Puppet Code.**
* Created Docker images using a **Docker file**. Worked on Docker container **snapshots**, removing images and managing **docker volumes** and experienced with Docker container service.

Automated the manual processes of Build and Deployment, Infrastructure configuration and Server State Management using **REST API’s, CLI’s and chef.**

* Integrated Ansible dynamic inventory for Virtual box, **Open stack, Amazon AWS EC2, Docker** for full automated deployment in all the environments to support scaling required.
* Maintained and upgraded **Jira issue tracker, Crucible code review tool**.
* Built Python scripts for pushing data from **MongoDB to MySQL Database.**
* Developed unit and functional tests in **Python and Java**.

**Environment:** Amazon Web Services, AWS EC2, S3, Bucket, GIT, Maven, Nagios, Jenkins, IBM Urban Code Deploy, Cloud Watch, GitHub, WebLogic, Tomcat, Shell & Perl Scripting, MySQL, HP Service Manager, Jenkins, Docker.