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**Cloud/DevOps Engineer**

**PROFESSIONAL SUMMARY:**

Having **10+** experience as an IT professional with a solid background in automating, building, releasing code from one environment to other environment and deploying to servers. Extensive experience includes SCM, DevOps, Infrastructure automation, Continuous Integration and Delivery (CI/CD), Cloud Management (Azure, AWS) and Containerization.

* Expertise in Azure Cloud products like Virtual Machines, Storage Accounts, Application Insights, Automation Accounts, Databases, Networking and IaaS/PaaS resources.
* Designed and developed continuous deployment pipelines (CI/CD) in Azure DevOps.
* Expertise in building the Infrastructure on AWS using various services including EC2, VPC, RDS, S3, Cloud Front, Route 53, Cloud Watch, Cloud Trial, Cloud Formation.
* Worked on Microsoft Azure (Public) Cloud to provide IaaS support to client. Create Virtual Machines through Power Shell Script and Azure Portal. Manage and Create Storage Account and Affinity Group in Azure Portal.
* Build additional Docker Slave nodes for Jenkins using custom built Docker images and instances.
* Expertise in setting up Docker Host, Docker Registry, Docker images (Centos, RHEL and Ubuntu instances).
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pods.
* Highly involved in Configuring, monitoring and multi-platform servers by defining Chef server from workstation to manage and configure Chef nodes.
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments.
* Implementing to build new project framework using Jenkins & Maven as build framework tools. Performing regular Cron job updates and Quartz scheduler jobs in servers.
* Configured various jobs in Jenkins for deployment of Java based applications and running test suites.
* Working experience on migrating resources from on-perm to Azure using site recovery methods.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers.
* Set up GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring, and cloud deployment manager.
* Configuring and deploying instances on GCP environments and Data centers, also familiar with Compute, Kubernetes Engine, Stack driver Monitoring, Elastic Search, and managing security groups on both.
* Used GCP App Engine for deploying and scaling web applications and services developed with Java.
* Leveraged GCP cloud services such as Compute, auto-scaling, and VPC to build secure, highly scalable, and flexible systems that handle expected and unexpected load bursts.
* Installed/Configured the WebSphere server, JBoss application server, WebLogic server Managed tuning and performance of high-profile applications running on them.
* Expertise in Installation and maintenance of other application servers like Apache, Tomcat etc.
* Install and configured Apache, Debian, Nagios, MySQL, SQL server.
* Expertise in scripting languages like Bash, Python, Shell, PowerShell.
* Involved in writing the Maven and Gradle scripts for the configuration of J2EE applications.
* Proficient in Building, Release automation framework designing, Continuous Integration and Continuous Delivery, Release planning, procedures, scripting automation.
* Experience on express route architecture and design.
* Experienced in working on several Docker components like Docker Engine, Hub, Machine.
* Creating Docker images, Compose, Docker Registry and handling multiple images primarily for middleware installations and domain configurations.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing director structures and managing containers.
* Installation, Configuration and Administration of Windows 2008 and 2012R2 Servers, and decommission infrastructure systems, including upgrades, patches and migrations.
* Experience in assisting Applications & teams across Remote and Local geographical locations as part of Support experience in creating complex IAM policies for delegated administration within AWS.
* Experience in Monitoring tools like Dynatrace, Splunk, CloudWatch,
* Experience in Bug Tracking and Project Management tools like JIRA, ClearQuest and HP Quality Center.

**Technical Skills:**

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| --- | --- |
| Operating systems | Linux, CentOS, Ubuntu, Red hat, Windows |
| Versioning tools | GIT, SVN, TFS |
| Scripting Languages | Perl, Bash, Python, Power shell, Shell Scripting |
| Bug Tracking Tools | Jira |
| Configuration Management/ Container Tools | OpenStack, Puppet, Chef, Ansible, Docker, Kubernetes |
| Cloud Tools | Amazon Web services (AWS). Azure (IaaS & PaaS). |
| Build & CI Tools | Maven, Jenkins, Azure DevOps, Artifactory, Nexus |
| App/Web Servers | Oracle WebLogic, WebSphere, IIS Apache Tomcat |
| Databases | Microsoft SQL Server 2012/08, MySQL |
| Monitoring tools | Nagios, Splunk, Cloud watch, Azure Monitor |

**Professional Experience:**

**Barclays, Whippany, NJ March 2022 – Till Date**

**Cloud Engineer**

**Responsibilities:**

* Worked as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Deployed web applications to **Azure DevOps CI/CD** to focus on development by using services such as Repos to commit codes, Test Plans to unit test, deploy App Service, Azure Application Insight collects health performance and usage data of the process, stored artifacts in blob storages.
* Worked on Microsoft Azure Storage - Storage accounts, blob storage, managed and unmanaged storages.
* Worked with Azure MFA (Multi Factor Authentication) Servers and Phone factors for 2 step Security.
* Written PowerShell scripts and deployed using **CI/CD Azure DevOps**to **Automation Accounts.**
* Deployed Azure resource manager-based resources.
* Experience in Migrating the Legacy application into the **GCP Platform**.
* Responsible for managing the **GCP** services such as Compute Engine, App Engine, Cloud Storage, **VPC, Load Balancing,** **Big Query, Firewalls,** and **Stack Driver.**
* Developed automation solution using PowerShell scripting for Azure File Sync Service.
* Used Azure portals to managed Azure services and subscriptions.
* Created resources, using **AZURE** Terraform modules, and automated infrastructure management.
* Worked with Azure Migrate for the key migration workloads like Windows/Linux Servers and other databases.
* Building/Maintaining **Docker container** clusters managed by Kubernetes Linux, Bash, GIT, and Docker, on **GCP (Google Cloud Platform).** Utilized Kubernetes and Docker for the runtime environment of the CI / CD system to build, and test deploy.
* Written unit test cases using Pester framework and integrated unit tests and runbooks in the Az DevOps Build pipelines.
* Created terraform modules for Azure resource base infrastructure like Resource group, VNET, subnets
* Implemented Branching and Merging concepts TFS 2015 and GIT.
* Developed Power Shell scripting to work with TFS Object Model to utilize for more repeatable, automated processes and tasks.

**Environment:** AZURE, Load Balancers, Chef, Ansible, Shell, Python, GCP, Linux, JIIRA, PCF My SQL, Jenkins, Apache Tomcat 7.x, Docker, Virtualization, Kubernetes, Configured plug-ins for Apache HTTP server 2.4, Nginx, LDAP, JDK1.7, XML, SVN, Git, Window

**DirecTV, Los Angeles, CA July 2020 – February 2022**

**Cloud Engineer**

**Responsibilities:**

* Planned and created Vnet's and subnets, creating Network Security Groups (NSG) having inbound rules and outbound rules.
* Designed, deployed, maintained, and lead the implementation of Cloud solutions using Microsoft Azure and underlying technologies.
* Used**Terraform**forbuilding, changing,and versioningConfidential **Azure infrastructure**safelyand efficiently.Involved in setting up**Terraform** continuous build integration system. Also Implemented the solution for theDisaster Recover (Blue-Green Deployment)and automated the process using **Terraform** Template.
* Experience in Setting up the build and deployment automation for Terraform scripts using Jenkins
* Deployed Azure IaaS (VM's) and PaaS role instances (Cloud services) into secure VNets with Azure Internal Load Balancers, Subnets.
* Designed automated Continuous Integration builds, nightly builds, deployments, and unit tests across multiple different environments (DEV, QA, Training, Production) each constituting different types of servers (DB, App, Web).
* Play a key role in managing and configuring Azure resources related like application insights, Alerts, application settings, Cloning, SSL certificates, Performance test, backups, networking, authentication, and Authorization etc.
* Experienced in Provisioning VM's, Virtual Hard disks, Virtual Networks, Deploying Web Apps and Azure Windows server 2008/2012/R2, Microsoft SQL Server, Microsoft Visual Studio, Windows PowerShell, Cloud infrastructure.
* 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 Azure Site Recovery and Azure Backup- Installed and Configured the Azure Backup agent and virtual machine backup, Enabled Azure Virtual machine backup from the vault and configured the ASR.
* Using PowerShell to write, debug scripts to automate the processes and do migration of VM, involving copying and creating of VHDS.
* Resolving the issues related to web authentication and different authorization methods.
* Managing day to day activity of the cloud environment, supporting development teams with their requirements.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.

**Environment:** Chef, Vagrant, AWS EC2, AWS S3, AWS Route53, AWS VPC, Azure, Jenkins, Ruby, Shell, Apache Mesos, Marathon, Chronos, AWS API Gateway, Cloud formation, Docker, Kubernetes, Splunk

**Cox Automotive, Redwood city, CA January 2019 –June 2020**

**DevOps Engineer**

**Responsibilities:**

* Managed AWS infrastructure and automation with CLI and API. Working on Inbound and Outbound services with automation of Chef. Deployed multiple resources simultaneously, using

CloudFormation templates in AWS.

* Handled migration of on-premises applications to the cloud and created resources in the cloud to

enable this. Used all critical AWS tools used ELB and Auto-Scaling policies for scalability,

elasticity, and availability.

* Involved in designing and deploying multitude applications utilizing almost all AWS stack (Including EC2, S3, AMI, Route53, RDS, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and Auto-Scaling in AWS Cloud Formation.
* Helped in migration the existing **MYSQL** and **ORACLE** databases to the cloud using AWS Database Migration service and schema conversion.
* Designing and implementing CI (Continuous Integration) system: configuring **Jenkins**

servers, **Jenkins** nodes, creating required scripts (Perl &amp; Python), and Creating/configuring VMs (Windows/Linux).

* Installation and configuration of various flavors of Linux like **RedHat** Linux, Suse, Ubuntu and fedora servers.
* Defined CI/CD pipeline for build integration using Jenkins and maven and reported back build status to Dev and maintaining the Nexus repository.
* Updated YUM Repositories and **Red hat** Package Manager (RPM).
* Configured Git with **Jenkins** and scheduled jobs using POLL SCM option and integrated to automate the code checkout process.
* Created **Terraform** workspace for each environment in a pipeline and stored terraform state file in storage account.
* Managed AWS infrastructure as code using Terraform and updated the **terraform** as per the organization’s requirement on a regular basis.
* Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
* Configuring **Jenkins** as a common CI engine to build and promote applications to DEV, QA and STAGING to Linux environments.
* Managed Nodes, Run-Lists, roles, environments, Data Bags, cookbooks, recipes in Chef. Implemented Auto-Scaling with Chef and Assign chef roles to EC2 instances.
* Experience in setting up the Chef repo, Chef workstations and Chef nodes.
* Created **Docker** images using a **Docker** file, worked on **Docker** container snapshots,

removing images and managing **Docker** volumes

* Implemented **Docker** automation solution for Continuous integration / Continuous Delivery model.
* Configured **Docker** container for branching purposes.
* Changing the AWS infrastructure Elastic Beanstalk to **Docker** with **Kubernetes**.
* Worked on integrating GIT into the continuous Integration (CI) environment along with
* Anthill-Pro, **Jenkins**, Cruise Control and Subversion. Written scripts to containerize using Dockers and orchestrate it using **Kubernetes**. Configured the services using modern DevOps tools, like Ansible.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple namespace versions.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple name spaced versions.
* Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
* Expert Knowledge in Bash Shell Scripting, Automation of **Cron Jobs**.
* Version control through GIT. Writing new plugins in Nagios to monitor resources.
* Managing and architecting more than 3000 virtual servers. Monitoring of Application and Servers through Nagios. Web Servers Administration on Apache and Nginix. **SQL** queries and administration.
* Evaluated existing JIRA instance and resolved performance issues.
* Contracted to serve as the JIRA Systems Administrator for the international
* Expertise in installing and configuring network infrastructure using routing and switching strategies, TCP /IP network services
* Network and server room maintenance and support. Day to day operational support of server racks and networking infrastructure
* Designed and developed automation test scripts using **Python** for AWS resource.
* Developed monitoring and notification tools using **Python**.
* Designed a Deployment pipeline for the given Conductor application that is updated automatically every time you change the code.
* Integration with **Splunk**, which offers a pre-built knowledge base of critical dashboards and reports.
* Provided 24\*7 support to coordinate with the teams and customers for delivery purposes.

**Environment:** AWS EC2, S3, VPC, Red hat, Docker, GitHub, Jenkins, Apache Tomcat 7.0, SOA, WebSphere, Splunk, Shell, Python.

**Invesco, Houston, TX October 2017 to December 2018**

**AWS / DevOps Engineer**

**Responsibilities:**

* Creating S3 buckets, maintained and utilized the policy management of S3 buckets and Glacier for storage and backup on AWS.
* Implemented and maintained the **monitoring/alerting** of production and corporate servers using AWS Cloud Watch.
* Support, troubleshooting and problem resolution for the developed Cloud Formation scripts to build on demand EC2 instance formation.
* Managed multiple AWS accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Designed AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more **AWS EC2 instances.**
* Used Amazon **Route53** to manage DNS zones and give public DNS names to elastic load balancers IP's
* Worked on variety of Linux platforms (**Ubuntu, Red hat**) which includes installation, configuring and maintenance of applications on this environment.
* Work in migrating code from **SVN to GIT repo (stash/bitbucket)**, clean the GIT repo (purging files).
* Worked with the groovy scripts in Jenkins to execute jobs for a continuous integration pipeline where **'Groovy Jenkins Plugin'** and **'Groovy Post-Build Action Plugin'** is used as a build step and post build actions.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality
* tracking and user management with build tools like Maven and Ant.
* Configured Jenkins, used as a Continuous Integration tool for Installing and configuring Jenkins Master and hooking up with different build slaves. Automatized Java application builds using with **Maven**.
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, Mavenization of **Java** projects and managing Maven repositories.
* Involved in extremely efficient **Agile process**, to deliver an end to end continuous integration/continuous delivery product in an open source environment using tools like  **& Jenkins**.
* Involved in setting up **Puppet Master/Client** to automate installation and configuration across the environment.
* Deployed **Puppet dashboard** and Puppet DB for configuration management to existing infrastructure.
* Experience in virtualizing the servers using **Docke**r for the test environments and dev environment needs and gained knowledge in cluster tools like **Mesosphere** and **Kubernetes**.
* Experienced DevOps Practice for **Micro Services** Architecture using **Kubernetes** for Orchestration.
* Develop CI/CD system with Jenkins on **Kubernetes** container environment, utilizing **Kubernetes** and **docker** for the runtime environment for the CI/CD system to **build, test and deploy.**
* Experience in **Bug Tracking** and Project Management tools like **JIRA, ClearQuest** and HP Quality Center.
* Implemented and supported monitoring tools like **Nagios, Splunk on QA** and Production servers for Resource, Network and Log Trace Monitoring. Proficient in working with network protocols like **TCP/IP, DNS.**

**Environment**: Java, Python, Maven, Nexus, puppet, Jenkins, Docker, Kubernetes, Nginx, Nagios, GIT, Agile, AWS EC-2, Route 53, S3, VPC, Auto-Scaling, ELB, ELK, Shell Scripts, Unix/ Linux environment, spark.

**LIPI Data Systems, Mumbai, INDIA August 2012 to September 2016**

**Linux/Middleware Admin**

**Responsibilities:**

* Configuration and managing WebLogic domains to support fusion middleware applications
* Responsible for Installation, configuration and administration of WebSphere, Tomcat and Apache Webserver on Linux and Windows 2008 environment.
* Configuration, Maintenance and Troubleshooting of IBM WebSphere Application Server 6.x/7.x/8.5 and Tomcat on RHEL/AIX 5.3
* Expertise in writing MAVEN scripts for automation of build and deployment of Java components.
* Managing and Monitoring the JVM performance by WebLogic Heap Size, garbage collection
* Configuring and troubleshooting of WebLogic domain resources such as servers, cluster, JMS and JDBC services.
* Hands on experience in installation, configuration and troubleshooting the issues and performance tuning of WebLogic/Apache/IIS and Tomcat
* Developing scripts for build, deployment, maintenance and related tasks using Maven, Python and Bash
* Configuring WebLogic domains for various functional environments
* Working with application team leads and architects to configure required WebLogic resources in environments to support application functionality.
* Involved in installation, configuration and administration of WebLogic application servers.
* Build and deployment of WAR, EAR and JAR files for WebLogic domain.
* Maintained Environment sheets and hold the responsibilities of managing id and passwords.
* Troubleshooting emerging application issues, from WebLogic Server configuration to code issues.
* Handling code management on the **SVN**

**Environment:** 11g/10/8/, SOA, Apache, IIS, JDK 1.6, J2EE, LDAP, JDBC, XML, Oracle9i/10g, Apache Tomcat 7.x, Configured plug-ins for Apache HTTP server 2.4, Red hat Enterprise Linux 5, ANT, MAVEN, Shell, Python, SQL DB, F5-BIG IP, Legacy applications, SVN and ClearQuest