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**Omprakash Ganji**

**SUMMARY:**

* Aws DevOps Engineer with Over 9+ years of experience in Linux environment, automation of build tools, configurationmanagement tools following Agile methodology and Software Development Life Cycle including monitoring,configuration, troubleshooting and maintenance in cloud and DevOps Environment with Continuous integration andContinuous Delivery process.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, SCRUM, Waterfall methodologies.
* Wrote Ansible playbooks to manage configurations and automate installation process.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Managing the configurations of multiple servers using Ansible & Chef.
* Managed environments DEV, QA, UAT and PROD for various releases and designed instance strategies.
* Good knowledge about CI/CD.
* Managed Multi Flavour of Linux and Windows virtual servers with Ansible & Chef using Git.
* Extensively worked on Cloud Bees, Jenkins and TeamCity for continuous integration (CI) and for End-to-End automation for all build and deployments.
* Performed Automation and Scaling of applications using Kubernetes.
* Experience with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Used Ansible to orchestrate software updates and verify functionality.
* Terraforming and CloudFormation to code all infrastructures into Azure, AWS and GCP.
* Organized different infrastructure resources like physical machines, VMs and even containers using Terraform.
* Worked on Terra form to set up the AWS infrastructures such as launching theEC2 instances, S3buckets, VPC, Subnets, and created the module driven AWS Infrastructure with Terraform
* Used GIT as Version Control System for two applications. Managed development streams and Integration streams.
* Used AWS Bean Stalk for deploying and scaling web applications and services developed with Java, Node.js, Python and Ruby on familiar servers such as Apache, and IIS.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Experience working on docker hub, creating docker images and handling multiple images primarily for middleware installations and domain configurations.
* Used Docker for configuration management automation
* Setup Elastic Load Balancer for distributing traffic among multiple Web Logic servers and involved in deploying the content cloud platform on Amazon Web Services using EC2, S3 and EBS.
* Creating the AWS Security groups to enable firewall.
* Automated AWS volumes snapshot backups for enterprise using Lambda.
* Created functions and assigned roles in AWS Lambda to run python scripts.
* Administration and maintenance of Docker runtime environment, Versioning and lifecycle management of Docker images, Experienced in Docker orchestration framework.
* Automated Compute Engine and Docker Image Builds with Jenkins and Kubernetes.
* Having good implementation experience with installation and configuration of Kubernetes, clustering them and managed local deployments in Kubernetes.
* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application from development through production, easing the code development and deployment pipeline by implementing Docker containerization.
* Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with Kubernetes, Docker Compose, AWS ECS Azure EKS & Mesos .
* Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing Docker volumes and experienced with Docker container service.
* Ansible playbooks to manage configurations and automate installation process.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Managing the configurations of multiple servers using Ansible.
* Experience in developing and maintaining CI/CD pipelines using Jenkins, Groovy, and other automation tools.
* Managed Artifactory repository for the current project created a new repository and provisioned it.
* Shell scripts & Python script to automatically restart the u Deploy agents on LINUX machines
* Performed Automation and Scaling of applications using Kubernetes.
* Experience with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Experience in Private Cloud setup /POC/Configuration/maintenance.
* Efficient in working closely with Development, QA, Product and Business owner teams to ensure high quality and timely delivery of builds and releases across multiple platforms and environments.
* Worked as an independent contributor, Self-motivated and energetic professional, Strong Organizational skills and ability to do multitask, ability to quickly acquire an in-depth knowledge of the company's product and systems
* Regular maintenance of cluster with Hadoop-balancer and monitoring of clusters with Sensu and Python Flask Monitoring Tool.
* Experience in implementing new features of SQL Server 2008 like Policy Based Management, Resource Governor, Data Collector sets and Backup Compression Techniques.
* Automated CI/CD from TFS – Azure and non-Azure web & database servers.\
* Designed, Architected and implemented the Platform as a service built for multi-tenant platform within the Hybrid cloud infrastructure within AWS and GCP.
* Used Ticketing & Project Management tools like Jira, Team Foundation Server in DevOps, Service Now, and HPQC.
* Knowledgeable on scripting languages as Python hands on experienced.

**Certification:**

AWS Solution Architect

Certified Kubernetes Administration (CKA)

**Technical Skills:**

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| **Operating Systems** | RHEL/CentOS 5.x/6.x/7.x, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2010 |
| **Cloud** | AWS, Azure, OpenStack |
| **Scripting** | Bash, Shell, Ruby, PowerShell, Python, Perl, YAML, Shell |
| **Build/Automation Tools** | Ansible, Chef, Puppet, Jenkins, Maven, Ant |
| **Databases** | MySQL, SQL Server, MongoDB, PostgreSQL, Cassandra |
| **Bug Tracking Tools** | JIRA |
| **Version Control Tools** | GIT, Subversion, TFS |
| **Web/App Server** | Apache, IIS, TFS, Tomcat, WebSphere Application Server |
| **Web Technologies/ Programming Languages** | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Perl scripting, Python, Shell scripting, Ruby, YAML |

**Professional Experience:**

**Client : AT&T, Dallas, TX, June 2022 to Till Date**

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

**Responsibilities:**

* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Experience in developing and maintaining CI/CD pipelines using Jenkins, Groovy, and other automation tools.
* Proven track record of deploying cloud-centric solutions in multi-cloud tenant environments, including AWS and Azure.
* Proficient in various AWS technologies such as S3, CloudFormation, IAM, KMS, EC2, VPC, CodePipeline, AWS EKS, and RDS.
* Skilled in deploying microservices into EKS and OpenShift cluster ecosystems in mid to large-sized enterprise environments.
* Strong understanding of Kubernetes platform and experience with continuous deployment tools like Spinnaker and Helm.
* Experienced in source code management, repository management, and package management using tools like Git, Bitbucket, CI/CD, Helm, Spinnaker, Jenkins, Jira, and JFrog Artifactory.
* Proven ability to collaborate with partner teams and peers to support technology implementation and solution delivery in ecosystems using AWS, Elasticsearch, Logstash, Kibana, Open Policy Agent (OPA), Horizontal Pod Autoscaler (HPA), Docker & containerized workloads, and Service Mesh tools.
* Strong understanding of the Software Development Lifecycle (SDLC) practices and experience in building CI/CD pipelines and practicing Test Driven Development (TDD) for writing test case scenarios for automated testing.
* Ability to work with cross-functional teams to deliver features and products and experience in solidifying solution design, contributing to design working sessions, and outlining solution paths for new capability development.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Working in implementation team to build and engineer servers for Linux & AIX operating systems.
* Working on AWS cloud to provision new instances. S3 Storage Services. AWS EC2 & Cloud watch services. CI/CD pipeline management through Jenkins.
* Automated Compute Engine and Docker Image Builds with Jenkins and Kubernetes.
* Having good implementation experience with installation and configuration of Kubernetes, clustering them and managed local deployments in Kubernetes.
* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application from development through production, easing the code development and deployment pipeline by implementing Docker containerization.
* Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with AWS ECS and Kubernetes.
* Involved in creating a Grafana dashboard that displays these metrics in real-time, using various charts and graphs to visualize the data.
* Set up alerts in Grafana to notify you when any metric exceeds a certain threshold, such as when CPU usage is above 80%.
* Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing Docker volumes and experienced with Docker container service.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Managed Artifactory repository for the current project created a new repository and provisioned it.
* Wrote PowerShell scripts to automatically restart the uDeploy agents on LINUX machines
* Performed Automation and Scaling of applications using Kubernetes.
* Experience with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Used Ansible to orchestrate software updates and verify functionality.
* Used Ansible to document all infrastructures into version control.
* Used GIT as Version Control System for two applications. Managed development streams and Integration streams.
* Used AWS Bean Stalk for deploying and scaling web applications and services developed with Java, Node.js, Python and Ruby on familiar servers such as Apache, and IIS.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Experience working on docker hub, creating docker images and handling multiple images primarily for middleware installations and domain configurations.
* Used Docker for configuration management automation
* Setup Elastic Load Balancer for distributing traffic among multiple Web Logic servers and involved in deploying the content cloud platform on Amazon Web Services using EC2, S3 and EBS.
* Creating the AWS Security groups to enable firewall.
* Automated AWS volumes snapshot backups for enterprise using Lambda.
* Created functions and assigned roles in AWS Lambda to run python scripts.
* Administration and maintenance of Docker runtime environment, Versioning and lifecycle management of Docker images, Experienced in Docker orchestration framework.

**Environment:** Linux(RHEL) Redhat, AWS, Puppet, Chef, Amazon EC2, Apache/ Web Server, WebSphere Application Servers Subversion, Maven, Jenkins, Apache Tomcat, JIRA, MS SharePoint XML, UNIX/LINUX, Windows, Perl Scripts, Shell-Scripts, Java/J2EE, Kubernetes, Docker, HortonWorks, Hadoop.

**Client: Citrix Systems (Hyderabad, India) July 2018 – Mar 2021**

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

**Responsibilities:**

* Deploying infrastructure on AWS utilizing services such as EC2, RDS, VPC and Managed 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.
* Handling and maintaining Azure DevOps Pipeline with ADO and Terraform.
* Maintaining Terraform for Infrastructure as Code for Azure and GCP.
* Experienced in creating AWS IAM and Security Group in Public and Private Subnets in VPC. Created AWS Route53 to route traffic between different regions.
* Launched AWS and Open Stack instances (SUSE/Ubuntu/CentOS) and Configured launched instances with respect to specific applications.
* Implementing AWS Lambda functions to run scripts in response to event in Amazon Dynamo DB table, S3 buckets, HTTP requests using Amazon API Gateway.
* Involved in creating, configuring AWS VPC services, installed EC2 instances for the new development team, and used AWS Route 53 to maintain the traffic and to create the DNS name.
* Create a custom image of an Azure VM with Azure PowerShell and create a VM scale set and deploy a high available app on Windows with Azure PowerShell.
* Experience in load balance Windows VM in Azure to create high available application with Azure PowerShell and manage Azure Virtual Network for Windows VM with Azure PowerShell.
* Experience in Backup and restore files for Windows VM in Azure cloud.
* Transformed data among servers using tools SQL Server Integration Services and BCP.
* Configured and administrated Net backup policies, which include Windows and Linux agents, VMware SAN backups, Oracle and SQL agents, and Net backup Accelerator for servers up to 380 TB in size.
* Written Python scripts and PowerShell for setting up baselines, branching, merging, and automation processes across the environments using SCM tools like GIT on Linux and Windows platforms.
* Implementing VPC, Auto Scaling, S3, EBS, ELB, Cloud Formation templates and CloudWatch services from AWS.
* Used Maven dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects and environments. Built applications using Maven, Gradle scripts.
* Responsible for Installing, administering, repository management, User management in Nexus.
* Involved in checking the quality of the code by using SonarQube.
* Working knowledge/exposure in TOMCAT APACHE, WEB LOGIC & WEB SPHERE, formulated and executed designing standards for DNS servers.
* Involved in security testing, Windows Server Administration (WSUS), Infrastructure Solutions, ADD and DNS.
* Web application development using Web forms, C#, VB.net, JCL, Jscript and AJAX control.
* Used SVN for source code repository, code integration, Defect tracking in JIRA and HP QC.
* Deploy application code using CI/CD pipeline with Azure DevOps in Azure cloud, scale VM build automation using Azure DevOps in Azure VM agent plug-ins.
* Worked on Performance Monitoring, resolving network issues & tuning the system using tools.
* Developing plan for problem and incident response & management process based on Information Technology Infrastructure Library (ITIL).
* Improved team performance and accelerated release cycle accelerate delivery of new features and increase overall product qualities.
* Maintaining and developing Docker images for a tech stack including Cassandra, Kafka, Apache and several in house written in both OpenStack and AWS cloud on Kubernetes.
* Used Docker and Kubernetes to manage micro services deployment.
* Used Kubernetes to create Pods, Config Maps and deployments into the cluster.
* Hands on experience on Kubernetes to automate the deployment, scaling and operations of application containers across clusters of hosts.
* Worked with containerization tool Docker and running containers and services and utilizing docker swarm.
* API to provide lightweight containers that run processes isolation and worked on creation of customized Docker container images, tagged and pushed the images to the Docker Hub repository.
* Built and deployed a Ansible Server in Azure & AWS for infrastructure automation.
* Creating Chef Cookbooks and Recipes to maintain and automate various parts of infrastructure.
* Responsible for configuration changes, code building, code staging, build automation and deployment using tools like Octopus which also includes scripting in command line, Python, PowerShell, Perl.
* Configuration on WebSphere which includes writing Linux scripts- Shell scripting.
* Continuous Integration using Maven, Jenkins, Hudson.
* Involved in migration of Artifactory & GIT server.
* Created S3 bucket to host a static website with logging and versioning and customizing the template as per the client's requirement.
* DB administration and scripting in SQL, MySQL, Oracle databases for report generation and data management.
* Created lambda and wrote lambda function in Python script to stream the data from S3 bucket to Elasticsearch.
* Customized the log monitoring for a better and convenient reading of the logs by creating the indices and passing them on to the Elasticsearch which provides a URL for Kibana access.
* Responsible for designing & deploying new ELK clusters (Elasticsearch, Logstash, Kibana, beats, Kafka, zookeeper.
* Responsible for merging, tagging and conflict resolution in GIT and administered version control systems to create daily backups and checkpoint files.
* Responsible for User Management, Plugin Management and new job design and setup in Jenkins.
* Good experience in converting build.xml into pom.xml to build the applications using Maven.
* Experience in installation, configuration and administration of VMware based virtual servers using ESX/ ESXi servers, vSphere and Virtual Center.
* Worked on Linux Utilities: SSH, FTP, User, Process, Memory, Package, Disk and Log Management's and Swap Partition/Files Management.
* Designed and implemented Hypermedia (RESTful) API to integrate iOS application to existing music content database. Result was an adaptable interface to allow users to find SmartMusic content. (ASP.NET Web API, REST, Http, SOA)
* Used Javascript to create a workout timer dynamic overlay, which updates the database via saved timestamps. Workaround was required to save the timestamp on tab out of mobile browser.
* Adept at Angular front-end development, have made native mobile apps in spare time.
* Established communication between VPCs using VPC Peering and Transit Gateway.
* Configured lifecycle configuration rules on S3 buckets to move data between storage classes for easy accessibility, archiving and or cost optimization.

Environment: Terraform, AWS,S3, EBS, Elastic Load balancer (ELB), Auto Scaling groups, VPC,IAM, Cloud Watch, Glacier, DynamoDB, OpenStack, shell/Python scripts, GIT, Jenkins, Maven, Nexus, Ansible, Docker, Kubernetes, JIRA, Splunk, Nagios, Python, Nginx, Tomcat, Windows and Linux environment, VMware ESX/ESXI Server and Workstation.

**Client: Quest Diagnostics (Hyderabad, India) August 2017- June 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* 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.
* Deployed Multi tenants cloud applications on Hybrid Cloud using Kubernetes and Docker containers.
* Managed major architecture changes from single server large software system to a distributed system with Docker and Kubernetes orchestration.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowedreaching one or more AWS EC2 instances.
* Utilized Groovy scripts and Cloud Bees Jenkins to develop an end-to-end CI/CD pipeline for Spring Boot applications. Automated the build and deployment process by retrieving the code from Git, running unit and integration tests, and pushing the build artifacts to Nexus. Configured and integrated the Code Quality Tool SonarQube to ensure code quality and achieved significant code coverage improvements. The pipeline streamlined the software delivery process, reducing errors and increasing code quality, resulting in faster software delivery times.
* Using python scripts make AWS services Automated.
* Working with Python module Boto3 for all automation process
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Develop Cloud Formation scripts to automate EC2 instances. Created Cloud Formation templates and deployed AWS resources using it.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Creating Cloud Watch alerts for instances and using them in Auto-scaling launch configurations.
* Configured CI infrastructure (Jenkins) and full end to end automation using Jenkins.
* Working with Chef and Docker platforms.

**Client: Elsevier (Bangalore, India) January 2015 – June 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Created a Local **Git server** which will be the mirror image of the **GitHub repositories**.
* Used Git version control to manage the source code and integrating Git with Jenkins to support build automation and integrated with Jira to monitor the commits.
* Troubleshoot build, packaging and component management issues, working with the core Engineering team to resolve them.
* Wrote **CI/CD** pipeline in Groovy scripts to enable end to end setup of build & deployment using Cloud Bees Jenkins and Developed an end-to-end CI/CD Pipelines in Jenkins to retrieve code, perform tests and push build artifacts to Nexus and configured the Code Quality Tool **SonarQube** for Spring Boot applications.
* Working with **Python** module Boto3 for all automation process.
* Fully automated deployment to production with the ability to deploy multiple times a day.
* Implementing Continuous Integration and Continuous Delivery framework using SVN, Bitbucket, ANT, Maven, Jenkins, Bamboo, Nexus, Control Tier, Make in Linux environment.
* Involved in the Consulting, Analysis, Design, Development and Implementation of automated Continuous Integration/Continuous Deployment pipelines and test automation solutions.
* Working with **Chef** and **Docker** platforms.

**Thomson Reuters India (Noida & Mumbai, India) Nov 2012 to Aug 2016**

**Role: DevOps/Cloud Engineer**

**Project: HQ and Data-Centres**

* AWS, Large scale Infra environments consisting of over 200+ Linux & Windows Instances running multiple technologies.
* Cloud Migration & EBS Disk Migration
* Manage infra in AWS, Azure and VMWare
* Ansible with Vagrant for new Deployment of Instance or server
* caching server with Redis-Sentinal or MemcacheD.
* Experience on deploying Hosted Chef-Server on AWS for managing AWS EC2 instances.
* Server Provided Systems Administration, monitoring, maintenance, deployments, troubleshooting and automation services.
* Responsible for CI/CD process implementation using Jenkins along with Shell scripts to automate routine jobs.
* Setup MySQL & MongoDB (NoSQL) with failover and Replication
* Monitoring using Nagios Configured, performed troubleshooting and tuning for all layers of the stack Created and implemented multi environment Nagios & Sensu monitoring and managed with Python scripts for adding and removing host.
* Documentation of how deployment works, installation and setup process
* Application running inside Dockers and Monitoring.
* Configuring Webserver Apache and Nginx
* S3 Custom Backup script and RDS Management.
* AWS RDS running MySQL with replication.
* Several automated Shell and Python Script for daily and new implementation work.
* Coordination with multiple hardware and operating system software vendors to resolve the critical production issue.
* Automated shell and python scripts
* Server Logging system or Log management with Fluentd and Logstash with Kibana, ElasticSearch .
* OSSEC with ELK-Stack for Intrusion Alert and preventions.
* Automatic script for Log Management and query alert.
* Performed weekly and on-call deployments of application codes to production environments
* Created Maven, Perl & UNIX scripts for build and Release activities in QA, Staging and Production environments.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
* Working experience on AGILE/SCRUM Methodologies.
* Maintained and expanded usage of TeamCity and Gitlab
* Created and deployed a tool to automate branch and project creation in subversion using Perl and Chef and Puppet scripts
* Also help set up some of the AWS account peered with Shared Services so some users can use their CORP login creeds for logging into AWS accounts
* Work along with QA Lead to complete test planning tasks and executions for Statoil. (HAL Insite, WITSML,
* Apache Cassandra DB, Storm UI, Google Postman, WAPI entitlements and Zookeeper Applications).

**Environment:** Web Sphere, Nginx Server, Log4j, JavaScript, J2EE Patterns Search, SQL, MySQL, LDAP.