**Vinay Gupta**

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**TECHNICAL SUMMARY:**

* 5+ Experience in Unix/Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations.
* Experience in working as AWS - DevOps Engineer for release automation to achieve continuous integration and continuous delivery (CI and CD).
* Designing and implementing fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent.
* Experience in Change Management Processes and Procedures.
* Experience in AWS Cloud platform and its features which includes EC2, VPC,ECS, EBS, Cloudwatch, Load balancers, IAM and S3.
* Experience in configuring instance backup to AWS S3 buckets.
* Terraform creation for backend applications like EC2, RDS, S3, SNS, SQS
* Experience in Public and Private Clouds that include Cloud Foundry, Digital Ocean and AWS.
* Experience in Strategic development & deployment of scalable application micro services on cloud platforms such as Cloud Foundry.
* Experience in installation, configuration, management and troubleshooting of Tomcat container.
* Experience in creating and implementing FQDNs/hostnames for the applications as per the company standards.
* Experience in Implementation of application security using security groups, keypairs in Openstack dashboard.
* Expertise to handle tasks in RedHat Linux system.
* Experience in Managing User accounts, Swap memory, security, disk space, and process monitoring in Solaris and Redhat Linux.
* Experience in planning rapid deployments of the servers and applications using private cloud Openstack Glance.
* Experience in handling log files by implementing the log rotation.
* Experience in supporting L1 and L2 escalations.
* Strong experience and understanding of Auto mounts, TCP/IP, SMTP and Printer configurations.
* Extensive experience in installing, integrating, tuning, and troubleshooting Apache Tomcat.
* Experience in architecting, setting up data centers and migration of applications.
* Good presentation, customer support and trouble shooting skills & experience in providing 24x7 supports.

**EDUCATION:**

* B.Tech in Computer Science, University of JNTU, Hyderabad.

**TECHNICAL SKILLS:**

|  |  |
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| **Versioning Tools** | GitHub/ GitLab, GIT |
| **Cloud** | AWS (EC2, S3, SNS, SQS, EBS, ELB, Elastic Beanstalk, Route 53, ECS,VPC, IAM, Cloud Watch, Cloud front ,EKS,ECR,Lambda,WAF etc. ) |
| **IAAC** | Terraform |
| **CICD Tools** | Jenkins, BitBucket, GITLAB |
| **App/Web servers** | Apache Web Server, Nginx, EKS Cluster |
| **Database** | Workbench, MySQL, RDS, PostgreSQL, Postman Collection |
| **Networking/ Protocols** | DNS, HTTP, HTTPS, SSH, Route53 |
| **Operating Systems** | Ubuntu, CentOS, Amazon Linux |
| **Scripting & Ticketing tool** | Shell scripting , Jira Ticketing tool |
| **Containerization & Configuration tools** | Docker, Kubernetes, XML scripts |
| **Command platform** | Linux |
| **Monitoring Tools** | ELK Stack |

**PROJECTS & ROLES/RESPONSIBILITIES**

**Credgenics**

**Senior DevOps Engineer Sept '2020 – Present**

**Responsibilities:**

* Managing an application which handles ~150k concurrent logged in users.
* Configured such systems which can manage 1st level alerts itself.
* Migrating server applications to micro service architecture. which is very cost efficient
* Implemented various Grafana and Kibana dashboards for Business. Automated report was also there to work on stats.
* Leading a team of 5 DevOps folk.
* Working tightly with Developers team to resolve problem quickly.
* Setup CICD deployment process for microservices using docker, EKS, Jenkins and Kubernetes.
* Setup latency-based routing in AWS.
* Configure Docker containers.
* Troubleshooting server performance and AWS resource related issues.
* Working actively for the cost optimization of AWS Infra.
* Configure monitoring and alerts on AWS Production environment.
* Provide L2 support.
* Backup of Database servers and periodically maintenance for old data.

**Nvest Technologies July '18 – August 2020**

**Aws- DevOps Engineer**

**Responsibilities:**

* Installed, Configured and Maintained Ubuntu Linux in AWS environment.
* Created Virtual Machines by utilizing AWS EC2 and configured security groups to restrict Inbound and Outbound acess.
* Automated backups by shell scripting to transfer data in S3 Bucket.
* Setting up and administering DNS system in AWS using Route53.
* Focus on continuous integration (CI) and deployment, promoting Enterprise Solutions to target environments.
* Implemented Continuous Integration using Jenkins and GIT.
* Terraform creation for backend applications like EC2, RDS, S3 .
* Amazon CLI used to create vaults .
* Implemented Continuous deployment (CD) push button deploy using Jenkins.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Built and supported Development, Integration, Staging and, Production environments.
* Installed and configured Jenkins and created parameterized jobs to kick off build for different environments.
* CICD setups for Gitlab as well.
* Pipelined Application Logs from App Servers to Elasticsearch (ELK Stack) through Logstash.
* Designed Modules to manage configurations and automate installation process.
* repository.
* Troubleshooted the issues related to connectivity and low response times of applications on EC2 instances.
* Setup Jenkins push button deploy to integration, staging and, productions environments.
* Installed and configured HAProxy load balancer to route the traffic between application servers.
* Created Ansible Playbooks for Push Button Deployments through Jenkins.
* Created Server Build Playbook from the Scratch that does Tomcat App Server Installation, Nagios Agent Installation and App Deployments through Ansible Tower.
* Involved in Designing and Implementing host level migrations and replacing virtualization using P2P and P2V.
* Troubleshooting and performance tuning of various systems problems such as application, network and hardware related issues.
* Involved in Agile process, by-weekly Sprints and, daily Scrums to discuss the progress.
* Used tracking tool JIRA and also triaged the issues and maintained bugs using JIRA tool.

**Environment:** AWS EC2, S3, Route 53, Digital Ocean, CentOS, Jenkins, Git, Maven, Tomcat 8,JDK 8, Nagios, App Dynamics, Docker, BitBucket, VPC, Amplify, Code Deploy, Cloud watch

**Tech Mahindra Feb '16 – June'18**

**DevOps/Linux Engineer**

**Project - 1**

**Responsibilities:**

* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Create the stack using Cloud Formation Template to launch multiple Instances.
* Installed the application on AWS EC2 instances and also configured the storage on S3 buckets.
* Deployed EC2 Instance, adding (EBS) block level storage volume to increase the availability of the website.
* CICD setups for Gitlab
* Taking Encrypted Snapshots from the Encrypted volumes to create new volumes size.
* Using Simple storage services (S3) for snapshot and Configured S3 lifecycle of Applications & Databases logs, including deleting old logs, archiving logs based on retention policy of Apps and Databases.
* Setting up the Elastic load balancer (ELB) to send traffic to all instances in the availability zone.
* Designed a security group for maintaining the inbound and outbound traffic.
* Managed hosted Zone and domain name service using Route 53.
* Using various routing policies in Amazon Route53.
* Setup of Virtual Private Networks across Departments with strong Network ACLs at both the Subnet and the Instance level.
* Auto scaling of Web Application instances based on the Cloud watch alarms during sudden increase in network traffic.
* Involved in analyzing existing architecture on premise datacenters and designed to migrate complex Network architectures to AWS Public Cloud.
* Worked with networking teams in configuring AWS Direct Connect to establish dedicated connection to data centers.
* Design roles and groups for users and resources using AWS Identity Access Management (IAM).
* Used Tomcat and Web Logic as standard application servers to deploy web applications.
* Analysis of Automated weekly Instance usage reports and choose the right instance type for applications based on the Network I/O , CPU utilization and RAM
* Monitoring & Metrics - Using Amazon Cloud watch, monitor infrastructure and applications such as EBS, EC2, ELB, and S3.
* Configure notifications for the alarms generated based on events defined.
* Conduct incident review and root cause analysis, and escalate incidents as appropriate.
* Took Lead on troubleshooting most of the AWS services.
* On-call support for issues related to Linux VMs hosted in AWS and network troubleshooting.
* Managed cost analysis tool to monitor AWS costs.

**Environment:** AWS EC2, S3, Identity Access Management (IAM), EBS, Elastic Load Balancers, Route 53, AWS S3, AWS Cloud watch, GIT, Tomcat, Java, Apache HTTPD, Json

**Project -2**

**AWS Admin**

**Responsibilities:**

* 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 allowed reaching one or more AWS EC2 instances.
* 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.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Used AWS SDK to write scripts for EC2, load balancing, auto scaling services
* Created alarms and notifications for EC2 instances using **Cloud Watch**.
* Installing all Linux flavors **OS,** Configuring and binding system with domain.
* User administration, creating, modifying and deletion. Resetting UNIX account password.
* Installing applications on **Linux flavors**.
* **RPM** package management, installing, upgrading and removing.
* **Disk Management**, partitioning tools like **fdisk,** etc.
* Resolving the network issue and resolving IP table.
* Diagnosing the system hard ware issue and resolving.
* Cloud Services Administration and troubleshooting.

**Project -3**

**Linux Admin**

**Responsibilities:**

* To do this you must be creative, innovative and energetic in improving processes, products and services.
* CICD setups for Gitlab as well.
* Reducing the costs of producing products and services and being efficient
* increasing revenue by increasing customer satisfaction through good quality and service
* reducing the amount of investment that is necessary to produce the required type and quantity of products and services by increasing the effective capacity of the operation
* Providing the basis for future innovation by building a solid base of operations skills and knowledge within the business.
* Understanding strategic objectives: Operations managers must clearly understand the goals of the organization and develop a clear vision of exactly how operations will help achieve them.