**Tirumalarao**

**AWS/DevOps Engineer**

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**Summary:**

* IT professional with 4.9 years of experience in **AWS, DevOps** and **Linux administration**.
* Experience in **Continuous Integration** and **Continuous Deployment** methodologies.
* Ability to quickly understand requirements & involved in client meetings.
* Provided support in a demanding 24/7 Production Environment.

**Professional Summary:**

* Having 2.8 years of sound experience in DevOps/AWS **Software Configuration Management which includes Build & Release process setup, Build Automation, Continues Integration, Continues Deployment, Continues Testing** and **Continues monitoring** using Automation Tools.
* Setup /Managing Linux and windows servers on Amazon Cloud (**EC2, VPC, EBS, EFS, ECS, ELB, IAM, S3, RDS, Route 53, SSL, Security Groups, Cloud Watch**).
* Expertise in DevOps, Configuration Management, Cloud Infrastructure, Automation it includes **Amazon Web Service(AWS), Chef, Puppet, Jenkins, Git, Maven, Sonar cube, Junit** etc.
* Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backup to S3 bucket.
* Creating **Snapshots** and **Amazon machine images** (**AMIs**) of the instances for backup and creating **clone instances**.
* Used Chef Cookbooks, recipes, roles, run list to deploy web applications, application servers and vendor applications.
* Extensively worked with change tracking tool like JIRA.
* Experience in configuring and updating the servers using configuration management tools like **Chef, Puppet** andExperience in Containerization tool like **Docker.**
* Installed and setup Nagio’s server monitoring tools, Plugging, NRPE.
* Experience in writing **Puppet manifests** to automate configuration of a broad range of services.
* Excellent at defining Chef Server and workstation to manage and configure nodes.
* Experience in **branching, tagging** and **maintaining** the version across the environments working on Software Configuration Management (**SCM)** tools like **Subversion (SVN) and GIT**.
* Utilized **Cloud Watch** to monitor resources such as **EC2**, **CPU memory**, **Amazon RDS services**, **EBS** volumes, to set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
* Installed and setup Web Servers (Tomcat and Apache), DB Server (MYSQL).
* Experience in using Tomcat, JBOSS and Web Sphere Application Servers for deployment.
* Experience in Linux Administration (Installation, Configuration, Backup, Recovery, support etc).
* Monitor Production Server Health of different parameters (CPU Load, Physical Memory and Swap Memory, Hard disk, MySQL service and Http service and response time) via Nagio’s.
* Installed and Setup MySQL Server, Multiple MySQL Instance with different port.
* MySQL Database Security, backup, recovery, creating users and managing permissions.
* Install and configure VMware VCenter server 5.x Monitoring virtual Machines through VCenter server.
* Handling Remote Desktop connectivity Issues.

**Professional Experience:**

* Presently working in **HCL Technologies AWS/DevOps Engineer** at Bangalore from Aug 2014 to till date.
* Worked for **Wipro InfoTech** as a Linux admin in Hyderabad from Jul 2012 to Aug 2014.

**Technical Skills**

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| --- | --- |
| Version Control Tools | Git |
| Build Tools | Maven |
| Continuous Integration | Jenkins |
| Containerization | Docker |
| Configuration Management | Chef, Puppet, Ansible |
| Scripting Languages | Shell Scripting, Python. |
| Operating System | Linux, Windows, Ubuntu & CentOS |
| Cloud | AWS |
| Monitoring | Nagio’s |
| Load Balance | HA Proxy |
| Application Servers | Tomcat, JBOSS |
| Database | MYSQL |

# Educational Details:

* Master of Computer Application(MCA) from JNTU [Hyderabad]-2010

**Project Details:**

**Project # 3**

Organization: **HCL Technologies**

Role: **AWS DEVOPS ENGINEER**

Duration: **Jan 2015 – till date**

**Responsibilities:**

* Experience in designing and deploying **AWS** Solutions using **EC2, S3, EBS, Elastic Load balancer (ELB) and auto scaling groups.**
* Used EC2 container service to implement **Docker** to build and deploy files
* Worked at **optimizing volumes** and **EC2 instances** and created multiple VPC instances.
* Experience working with **IAM** in order to **create new accounts, roles and groups**.
* Experience in **creating alarms** and **notifications for EC2** instances using **Cloud Watch**.
* Experience involving **configuring S3 versioning** and lifecycle policies to and backup files and archive files in glacier.
* Designed, configured and managed public/private cloud infrastructures utilizing **Amazon Web Services** (AWS)including EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM, SNS.
* Administrator and Architect of Cloud platforms(AWS) .
* Configured an **AWS Virtual Private Cloud (VPC)** and Database Subnet Group for isolation of resources within the **Amazon RDS Oracle DB cluster.**
* Experience working on **User admin groups, maintaining account** and monitoring system performance using **Nagios**.
* Participated in configuring and monitoring distributed and multiple platform servers using **Puppet**. Used Puppet server and workstation to manage and configure nodes.
* Experience in writing **Puppet manifests** to automate configuration of a broad range of services.
* Experience in managing **virtual instances** and **disks using Puppet**.
* **Deployed** Puppet, **Puppet dashboard** for configuration management to existing infrastructure.
* Used the **Docker** files to build, ship and run distributed as a part of Cloud Build
* Used **Jenkins** for continuous deployment and integration of the **build and release** process.
* Used **TFS** for the version Controlling/ source code controlling.
* Worked on **power DNS** on the AWS cloud and maintained it with MYSQL database.

**Project# 2**

**Organization : HCL Technologies**

**Duration : Aug/2014-Jan/2015**

**Designation : AWS Engineer**

**Responsibilities:**

* Implemented and maintained monitoring and alerting of production and corporate servers Such as EC2 and storage such as S3 buckets using AWS Cloud Watch.
* Involved in automated deployment of EC2 instances in data centers and availability zones.
* Used security groups to develop a logical firewall to ensure high security for control applications.
* Used Amazon IAM to grant fine access of AWS resources to users. Also, managed roles and permissions of users to AWS account through IAM.
* Used Cloud Front to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Set up Auto Scaling Groups based on memory and CPU to adapt to unforeseen spikes without having an outage or needing manual intervention.
* Set up Elastic Load Balancers for different applications to ensure high availability of applications.
* Used Amazon S3 to backup database instances periodically to save snapshots of data.
* Used Amazon Route53 to manage DNS zones and also give public DNS names to elastic load balancers ip’s.
* Used Cloud Watch logs to move application logs to S3 and create alarms raised by applications.
* Configured an AWS Virtual Private Cloud (VPC) and Data Base subnet group for isolation of resources within AWS RDS.
* Used Amazon RDS Multi-AZ for automatic failover and high availability at the database tier for MYSQL workloads.
* Configured S3 Versioning and Life Cycle Policies to backup files and archive files in Glacier.
* To design high availability applications on AWS across Availability Zones and availability regions.
* Developed and supported the Red Hat Enterprise Linux based infrastructure in the cloud environment.
* Worked with Chef in AWS Cloud environment.
* Installed, configured and managed Puppet Master and Agent.
* Written CHEF cookbooks for various configurations to modularize and optimize end product configuration.
* Installed workstation, bootstrapped nodes, wrote recipes, cookbooks, roles and environments and uploaded them to chef server.
* Configured and administered Jenkins for continuous integration and deployment intoTomcat Application Server and to improve reusability for building pipeline.

**Project# 1**

**Organization : Wipro InfoTech**

**Duration : JUL/2012-Aug/2014**

**Designation : VMware/Linux System Engineer**

**Responsibilities:**

* Worked as a Project team member for providing L2 support to clients on Linux.
* Performing the ticket analysis and closing the relevant tickets within SLA period.
* Handling Servers among physical as well as virtual servers.
* Troubleshooting issues via Remote Technology Such as Remote desktop, Telnet and SSH.
* Installing packages on Linux servers using YUM and RPM utilities.
* Configuration and management of RAID Levels.
* Performing Mount and un mounts operations on file systems.
* Monitoring System Performance issues like memory, CPU and Disk utilization.
* Remote Servers operations like Login and Administration.
* Data Compressing, Backup and recovery using tar command.
* User management including, creating users, managing user privileges, password management, user related SSH issues.
* Disk Management through LVM & Troubleshooting on Linux.
* Installation & Configuration of NFS, SSH, FTP, Apache.
* Installation, Configuration and maintenance of MYSQL Server.
* Creating file systems, Partition and managing Disk Quotas and ACLs (Access Control Lists) for users.
* Scheduling of automatic repetitive jobs with Crontab.
* Monitor the system performance and tuning using top, VMSTAT, SAR and IOSTAT.
* Performed automated installations of Operating System using kick start for Linux.
* Implementing SUDO on users and Sticky bit, Setuid and Setgid.
* Rotated continual 24/7 on-call support.