**Mohnish Kesireddy**

**DevOps/AWS Engineer**

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**Summary:**

* **AWS/DevOps**/Network professional with 8+ years of IT industry experience in AWS, Build and release life cycle management.
* Experienced in implementing AWS solutions like **VPC, EC2, S3, RDS, EBS, ELB, Route53**, Auto scaling groups, Cloud Formation, SNS, Cloud Watch, Kenisis.
* Migrate the on-premise databases to AWS using Data Migration Services (DMS)
* Experienced in implementing Hygeia DevOps dashboard and integrate DevOps tools (Builds, Code repo, Feature) to dashboard.
* Created Cloud Formation template stacks to automate for building new VPCs and deploy AWS resources.
* Good Exposure on Virtualization and Containers (**Docker**) and Hypervisors ESXI, ESX.
* Deployed Java applications/Web-services using CI/CD tools like Jenkins, bamboo, Team city, Puppet, chef in standalone and clustered environments.
* Good Knowledge on writing chef cookbooks, recipes, puppet manifests and modules, resources to automate system operations.
* Installing and Administration of all the Linux/Unix based web and application servers like Tomcat, Nginix, in the network per specifications of clients.
* Experience in writing Shell and Python scripts to automate the deployments.
* Developed scripts in Python to package log files and send them to a remote server.
* DevOps experience with **Puppet, Ansible, Chef, AWS** (OPS Work).
* Configured and monitored distributed and multi-platform servers using chef. Defined Chef Server and workstation to manage and configure nodes.
* Developed Chef Cookbooks and Recipes to manage systems configuration.
* Experienced in automating deployment pipelines using Version Control Tools **SVN, Git, Bit Bucket.**
* Experienced in using the version controls like SVN, TFS and GIT effectively.
* Experienced working in both Waterfall and Agile based development environment participating in SCRUM sessions.
* Configuring network services such as **DNS, NFS, SMTP, NTP, DHCP, LDAP, SAMBA, SQUID**, postfix, send mail, ftp, remote access, security management and Security trouble shooting skills.
* Experience with MongoDB, MSSQL, MySQL and Server DB Tasks.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Familiar with network tool **Nagios and cacti**.
* Closely worked with Developers and Analysts to address project requirements. Able to effectively manage time and prioritize multiple projects.
* Good at communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and team work environments.

**Technical Skills:**

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| --- | --- |
| **Cloud Servers** | AWS, (EC2, S3, EBS, RDS, ELB,  IAM, AMI, Auto  Scaling) and Open stack. |
| **Configuration Management** | Chef, Puppet, Vagrant, Maven, Ansible, Docker,  Gradle, Splunk, OPS Work. |
| **Database** | Oracle, DB2, MySQL, MongoDB 7 SQL Server, MS SQL. |
| **Version Control** | SVN, GIT, Perforce, Code Commit. |
| **Web/App Servers** | Apache Tomcat, Nix, WebSphere, JBoss. |
| **Build Tools** | ANT, MAVEN, make file, Hudson, Jenkins,  BAMBOO, Code Deploy. |
| **Operating Systems** | Windows, Mac, UNIX, Linux |
| **Methodologies** | Agile, Waterfall |
| **Virtualization** | VMware and Virtual Box |
| **Scripting** | Shell, Bash, PHP, Python, Ruby |
| **Operating Systems** | Linux (Red Hat 4/5/6), UNIX, Ubuntu, Fedora,  CentOS, Windows NT/2000/2003, 7,8,10 and iOS |
| **Networking** | TCP/IP, NIS, NFS, DNS, DHCP, PKI, Cisco  Routers/Switches, WAN, SMTP, LAN, FTP/TFTP. |

**Professional Summary:**

**PWC July 16 – Till date**

**AWS/ DevOps Engineer**

**Responsibilities:**

* Assisted in migrating the exiting data center into the AWS instances.
* Migrated applications to the AWS cloud.
* Installed the application on **AWS EC2 AMI**, **Redhat**, Ubuntu Instances
* Configured the storage on **S3** Buckets.
* Experience working with **IAM** to create new accounts, roles, and groups.
* Developed **Chef** recipes to configure, deploy and maintain software components of the existing infrastructure
* Used Chef to manage Web Applications, Config Files, Data Base, Commands, Users, Mount Points, and Packages.
* Written cookbooks for Web Logic, **JDK 1.7**, and **Jenkins**, tomcat, **JBoss** and deployment automation.
* Use **puppet** and **Chef** Automation tools for configuration management in different systems.
* Reduced build + deployment times by designing and implementing **Docker** workflow.
* Set up system for dynamically adding and removing web services from a server using **Docker**, **Nginx**.
* Configured **Docker** container for branching purposes.
* Managed and configured **VMware** virtual machine for RHEL, Ubuntu Linux servers
* Experience in creating alarms and notifications for EC2 instances using **Cloud Watch.**
* Implemented AWS solutions using **E2C, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling** groups.
* Monitoring Live Traffic, logs, Memory utilization, Disk utilization and various other factors, which are important for deployment.
* Experience with **Ruby** and **shell** scripts for automating tasks.
* Created the Release process of the artifacts.
* JIRA is used as ticket tracking, change management and **Agile/SCRUM** tool.
* Experience in designing and implementing continuous integration system using Jenkins by creating **Python** and Perl scripts.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Installed, configured and maintained **DNS, FTP,** and **TCP/IP, DNSSEC** on Red Hat Linux
* Installed, configured and maintained web servers like HTTP Web Server, Apache Web Server, Apache Tomcat, **Nginx, JBoss.**

**Environment**: Git, Jenkins, CHEF, Puppet, Docker, Maven, AWS, EC2, Python, WebSphere, ANT, Ruby, PHP, Putty, Cyber duck, JIRA, Apache tomcat, JBoss, Linux, Windows, MAC

**MRC Global, Charleston, WV (Feb’14-July 16)**

**AWS/ DevOps Engineer**

**Responsibilities:**

* Extensively involved in Managing Ubuntu, Linux and Windows virtual servers on **AWS EC2 instance** by creating **Chef Nodes** through Open-Source **Chef Server**.
* Expertise in Developing Configuration management modules using **Opscode Chef** and **Ruby**.
* Creating cookbook for provisioning servers like **Jenkins, Splunk, sensu** and **Chef-server**.
* Highly involved in Configuring, monitoring and multi-platform servers by defining **Chef server** from workstation to manage and configure **Chef nodes**.
* Development of **Chef recipes** using **Ruby Script** through **Knife** command-line tool to create **Chef cookbooks** to manage systems configuration.
* Experience in setting up the **Chef repo, Chef work stations** and **Chef nodes**.
* Involved in **chef-infra** maintenance including backup/security fix on **Chef Server.**
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**. Managed AWS infrastructure as code using **Terraform.**
* Expertise in writing new plugins to support new functionality in **Terraform.**
* Involved in Architect, Build and maintain Highly Available secure multi-zone **AWS cloud** infrastructure utilizing **Chef** with AWS Cloud Formation and **Jenkin & Hudson** for continuous integration. Responsible for CI environments (Jenkins, Nexus, Sonar).
* Experience with setting up **Chef Infra, bootstrapping nodes, creating and uploading Chef recipes, Chef node** convergence in **Chef SCM.**
* Automated the cloud deployments using **chef, python** and **AWS Cloud** Formation Templates.
* Extensively involved in maintaining large amounts of structured, semi-structured, and unstructured data across multiple data centers and the cloud using **Cassandra**.
* Installing, configuring and administering **Jenkins** CI tool using **Chef** on **AWS EC2** instances.
* Integrated Jenkins with various DevOps tools such as Nexus, HP CDA, HP ALM and HP QTP.
* Configured various jobs in **Jenkins** & **Hudson** for deployment of Java based applications and running test suites. Setup ANT script based jobs and worked with **Jenkins Pipelines.**
* Developed build and deployment scripts using **Ant** and **Maven** as build tools in Jenkins to move into different environments and also create new jobs and branches through Jenkins.
* Setting up servers through using **AWS** for deployment or other uses for application.
* Maintaining a farm of **AWS** solution using **EC2** instances, **ELB's, S3, EBS, Auto Scaling.**
* Developing Cloud formation templates to launch **VPC’s** and instances in the AWS cloud.
* Strong experience utilizing **Jenkins** for enterprise scale infrastructure configuration and application deployments & checking out the code from **GIT** and use Ant/Maven to build **Jar, war, tar and ear** **artifacts.** Provisioning Web Servers in AWS and DNS route53 records.
* Experience with **Docker and Vagrant** for different infrastructure setup and testing of code.
* Source Code Control & Repository Administration with merging and branching to develop new features in the existing code using **GIT**.
* Excellent in Setting up monitoring tools like **Nagios** and **Amazon Cloud** watch to monitor major metrics like Network packets, CPU utilization, Load Balancer Latency.
* Created database tables that can store and retrieve any amount of data, and serve any level of request traffic using **DynamoDB.** Worked on **NoSQL** database **Cassandra.**
* Experience in writing **Ansible** scripts and heavy **Shell, Perl, Python**, and **JSON** scripting.
* **Troubleshooting** server related issues and problems in terms of operating system, applications with performance analysis tools using IBM Tealeaf, PowerShell Troubleshooting Packs, Win Audit, WELT and New Relica.
* Deployed and configured **GIT** repositories with branching, forks, tagging and merge requests.
* Proficiency in multiple databases like **MongoDB**, **MySQL, ORACLE, Amazon DynamoDB, Apache Cassandra and MS SQL Server.**
* Used **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on the source code. Worked on **Tomcat Web server** for hosting web apps.
* Worked on User administration setup, maintaining account, Monitor system performance using **Nagios** and **Zabbix**. Implemented a **Nagios** monitoring system to notify of system issues.

**Environment**: Chef, GIT, AWS Cloud, Jenkins, Ant, Maven, Nexus, Sonar, Apache Webserver, Linux, Unix, Solaris, Java script, Python script, Ruby script, Shell script, Perl script, Cassandra, MongoDB, Apache Tomcat, Amazon DynamoDB, WebSphere.

**Aetna, Grand Rapids, MI (Jan’12 – Feb’14)**

**Build & Release DevOps Engineer**

**Responsibilities:**

* Provided CM and Build support for more than 5 different applications, built and deployed to the production and lower environment.
* Defined and Implemented CM and Release Management Processes, Policies and Procedures.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **SVN** source control.
* Git Hub provides a web-based graphical interface and desktop as well as mobile integration.
* Analyze and resolve conflicts related to merging of source code for SVN.
* Implement, maintain and support reliable, timely and reproducible builds for project teams.
* Maintained build related scripts developed in **ANT**, **shell**. Modified build configuration files including **Ant’s build.xml**.
* Worked with development team to migrate **Ant scripts** to **Maven.**
* Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, **Mavenization** of Java projects and managing **Maven repositories**.
* Researched and implemented code coverage and unit test plug-ins with Maven/Jenkins.
* Used Maven dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects.
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Deployed code on **WebSphere Application** **Servers** for Production, QA, and Development environments using **WSADMIN** scripts.
* Worked on the Oracle databases in the backend to execute the DMLs and DDLs. Own full lifecycle of build system - from analysis, development, implementation and support of builds, unit testing and deployments.
* Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
* Coordinate with Release Management regarding appropriate system releases among other development platforms.

**Environment: -** RHEL 6.x, Solaris and Windows, **Chef**, Shell, **Python**, **AWC EC2, WLST**, Tomcat 7.x, Science Logic, **Nagios**, Open Stack, SOA 11g, IDM 11g, Quality Center, BMC Remedy, Oracle HTTP Server

**Sapient, Hyderabad, India (Oct’ 09 – Sep’ 11)**

**Build & Release Engineer**

**Responsibilities:**

* Automated both **.Net and Java Applications** using industry's best automation **tool Hudson.**
* **End to End automation** from Build to Production is implemented.
* All un-authorized access is revoked and Principle of Least privilege is applied with the aid of these tools.
* **ITIL best practices** were brought in to the normal SDLC process and lead the effort of bringing change in the organization.
* Facilitating the projects in Quality related activities as per **QMS** process.
* Maintenance of Configuration items in Harvest.
* Generalizing **Audit Trail Reports and Time Sheet Report**.
* Prepared mock cutover plans and cutover plans for **Pre-Prod and Prod Deployments**
* Conducting and Attending Project Status **Review Meetings and Casual Analysis** Meeting for release activities
* Prepare the resources (People and environments) for the **build / Releases**
* Conducting the configuration audits as per schedule and Report the configuration audit findings and Track the findings to closure.
* Feedback on status of project release to the PM periodically
* Publish the changes with respect to **CI's** and amend affected documents periodically
* Ensure that back-ups are taken periodically.
* Creating the release responsible as instructed by the PM.
* Responsible for the build and release management process.
* Responsible for automated **build scripts and build issues**.
* Coordinating with development teams to perform buildsand resolve build issues.
* Provide complete phone support to customers.
* Setup and debug hardware related issues for server builds.
* Coordinated with developers, Business Analyst and Mangers to make sure that code is deployed in the Production environment.
* Troubleshoot tickets on the **helpdesk tracking system**.

**Environment: ANT, Maven, Web logic, Perl Scripts, Shell Scripts, LINUX, SVN, Hudson**

**Four Soft, Hyderabad, India (July’08 –Oct’09)**

**Linux Administrator**

**Responsibilities:**

* Yum configuration & package installation through YUM. Configuring and deploying of iSCSI server and Client.
* Installation of Red Hat Enterprise Linux. Configuration and troubleshooting for Red Hat Linux.
* Handling troubleshooting issues like boating, RPM packages, User management and backup.
* IP bonding for load balancing and fail over, Firewall, SELINUX.
* Hosting and securing web pages using Apache (httpd) web server and ssl. User Administration & Quota Management
* Creating and deploying LVM, resizing the logical volume and volume group.
* Configuration and administration of LDAP, NFS, FTP, SAMBA and POSTFIX Servers in Red Hat Enterprise Linux.
* Performances, CPU and Memory monitoring of Red Hat Enterprise Linux.
* Create, deploy and manage Linux and windows VM using Red Hat Enterprise Virtualization Manager, which includes moving and migrating VM from one cluster to another cluster or within the same cluster.
* Experience in Windows 2003 and2008 Active Directory Installation and Configuration.
* Heartbeat clustering for high availability in Apache.
* Installed and configured ESXi 5.0, 5.1 Servers on Blade servers. Creating Virtual machines. Creation of templates from VMs and Creation of VMs from templates.
* Configure vCenter Server 5.0, 5.1 in production environment and created many cluster and enabling HA and DRS for Load balancing and High Availability. Worked on Migration concepts like Vmotion, SVmotion and cold migration.
* Performed physical to virtual (P2V) and (V2V) migrations for approximately 50 physical servers utilizing VMware Converter.
* Firmware upgrade, managing the servers, collecting Logs, open KVM console for troubleshooting**.**

**Education:**

Bachelor of Technology in Electronics and communication, Sastra University.