**Ravi T**

**Ph. no: (732)930-1387**

**ravit9409@gmail.com**

**PROFESSIONAL SUMMARY**

* Around 8 years of IT industry experience into DevOps, AWS cloud, Linux/Unix, Continuous Integration, Configuration Management, Build, Deploy and Release management, VMware.
* Expertise on Linux administration and **shell scripting**.
* Monitored the servers and Linux scripts regularly and performed troubleshooting steps – Tested and installed the latest software on server for end-users.
* Hands on experience working on **CI/CD** tool sets such as **Jenkins, ANT, GIT**, **Ansible, Puppet**, **and Shell.**
* Knowledge of **puppet** as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Good experience on implementing Puppet to convert Infrastructure as code.
* Added multiple nodes to enterprise **Puppet master** and managed all the Puppet agents.
* Deploy Apache/Tomcat applications using puppet.
* Worked on various version control repositories like GitHub, SVN
* Experience in running web scale services on **Amazon Web Services (AWS)**.
* Design roles and groups for users and resources using AWS Identity Access Management (IAM).
* Use Amazon RDS to manage, create snapshots, and automate backup of database.
* Experience with implementation of AWS Cloud-Specific technologies including **EC2, EBS, S3, VPC, RDS, SES, ELB, EMR, ECS,** Cloud Front, Cloud Formation, Elastic Cache, Cloud Watch, RedShift, Lambda, SNS, Dynamo DB.
* Helped QA team to integrate automation tests with nightly builds and check the build success through Jenkins.
* Developed build and deployment scripts using ANT and MAVEN as build tools in **Jenkins** to move from one environment to other environments.
* Very good experience in installing and configuration of Web servers like **Apache**, **lighthttpd** and **Nginx**.
* Experience in Designing, Installing and Implementing **Ansible** configuration management system and in writing playbooks for Ansible and deploying applications.
* Experience with container based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Setup up and maintenance of automated environment using basic Chef Recipes & cookbooks and mostly on Puppet manifest and modules within AWS environment.
* Extensive experience in working with **JBOSS and Apache Tomcat** applicationservers.
* Good interaction with developers, managers, and team members to coordinated job tasks and strong commitment to work. Participated in performance tuning, unit test case preparation and execution.

**TECHNICAL SKILLS**

Operating Systems : Linux (Red Hat 4.x, 5.x, 6.x), UNIX, WINDOWS, Ubuntu.

Programming Languages : C, C++, HTML, Ruby, and Python.

Scripting Languages : Ruby, Shell, and Bash.

Version Control Systems : GIT, SVN.

Application Servers : Apache ANT, Apache Tomcat, JBOSS.

Configuration Management : Ansible, Puppet, Chef.

Tools

Continuous Monitoring : Nagios.

Tools

Continuous Integration Tools : Jenkins.

Testing Tools : Vagrant.

Cloud : AWS EC2, VPC, EBS, SNS, RDS, EBS, Cloud Watch, Cloud Formation

AWS Config, S3, auto scaling, VM Ware.

**PROFESSIONAL EXPERIENCE**

**Client: PFS Web– Allen, TX May 2016 – present**

**Sr DevOpsEngineer**

**Responsibilities:**

* Expertise on Linux administration and shell scripting.
* Experience working with **AWS** Cloud computing and involved in creating AWS instances and deployed Linux and Ubuntu on AWS environment and Expertise in migrating applications onto AWS.
* Amazon **AWS-EC2 VPC** and Virtualization, **VMWare** server Infrastructure build design solutions.
* Involved in AWS, which included managing application in the cloud and creating instances.
* Worked on setting up and maintaining auto-scaling AWS stacks (preferred using cloud formation and scripting).
* Administered databases using RDS, MySQL and **Dynamo DB** in AWS.
* Imported and managed multiple corporate applications into Subversion (SVN). Good knowledge on other source control repos like **GIT**.
* Implemented & maintained the branching and build/release strategies utilizing GIT.
* Developing modules, manifests, Resources and Run lists, managing the **Puppet client nodes**, and upload the modules to puppet-server from Git local repos.
* Maintained source control (Branching Standard/merging/Labeling) in GIT.
* Worked on Installing Puppet master and puppet agents on multiple nodes. Added all the nodes to master and managed various node groups.
* Configured security in puppet, added users and groups. Helped team in creating puppet modules.
* Good understanding of profiles, modules, Hiera, resources etc. in puppet. Installed many modules from Puppet Forge, helped teams in creating basic modules.
* Deploy **Apache/Tomcat** applications using puppet.
* Manage Puppet server in pushing the configure changes to client nodes, monitoring the logs and security.
* Installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Worked on continuous integration and continuous deployments. Worked Jenkins as CI tools. Configured security, SSH from Jenkins and managed various third party plugins.
* Used Jenkins, Build forge for Continuous Integration and deployment into Tomcat Application Server.
* Managed build results in **Jenkins** and deployed using workflows.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Installed and configured monitoring tools Nagios for monitoring the network bandwidth and the hard drives status.
* Worked closely with developers and managers to resolve the issues during the deployments to different environments.

**Environment: AWS(EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Jenkins, Puppet, UNIX/Linux, Windows, VM Ware, Shell Scripts, Apache, JBOSS, Nagios, GIT, SVN, My SQL, Dynamo DB.**

**Client: GATX Corporation, Chicago, IL July 2014 – Apr 2016**

**DevOps / Cloud Engineer**

**Responsibilities:**

* Worked with AWS cloud management and chef automation.
* Implemented AWS solutions using **EC2,S3** and **load branches**.
* Strong knowledge and experience in AWS services like EC2, S3, EBS and **IAM**.
* Manage AWS EC2 instances utilizing Auto Scaling, **Elastic Load Balancing** and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Puppet.
* Deploying and maintaining production environment using AWS EC2 instances and elastic container services with **Docker**.
* Automated apache-webserver configuration, DB server configuration, SSSD configuration LAMP by writing ruby **cookbooks** in chef.
* Managed Chef Server in pushing the infrastructure change to **client nodes**, monitoring the logs and security.
* Worked on using Chef Attributes, Chef Templates, Chef Recipes, and Chef Files for managing the configurations across various nodes.
* Implemented **Ansible** to manage all existing servers and automate the build configuration of new server.
* Used Ansible to manage web applications, configure files, database, users, mount points and packages.
* Developed Ansible recipes to configure, deploy and maintain software components of the existing infrastructure.
* Good knowledge on **container management** using Docker in **creating images**.
* Hands on experience in creating Docker container and Docker consoles for managing the application life cycle.
* Experience in load balancing and monitoring with Nagios.
* Monitored server, switches, ports etc. With**Nagios** monitoring tool.
* Implemented Nagios monitoring solution for mission critical server. Monitored the **server and application** using Nagios.
* GIT and GIT Hub experience in a collaborative development environment.
* Initiated responsibility for administering the SVN and GIT servers which included install, upgrade, backup, adding, users, creating repository/branches, writing hooks scripts, performance tuning, troubleshooting issues and maintenance.
* Experience in system administration, system builds, server builds, install, upgrades, patches, migration, troubleshooting, security, backup, disaster recovery, performance monitoring and fine-tuning on **Redhat** Linux systems.
* Experience in creating **Linux virtual machine** using VMware Center.

**Environment: Linux (Redhat), AWS, CHEF, Nagios, GIT, SVN, VMware, Docker, Ansible.**

**Client:Hover Networks, Buffalo, NY Feb 2012 – June 2014**

**Role: DevOps Engineer**

**Responsibilities:**

* Installed and configured an **automated toolPuppet** that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation.
* Experience in managing virtual instances and disks using Puppet and Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* Created puppet manifests and modules to automate system operations.
* Development team used a Git branching strategy that included **develop branches**, feature branches, **staging branches**and master. Pull requests and code reviews were performed.
* Involved in **migrating** physical Linux/Windows servers to cloud (AWS) and test it.
* Created Virtual Private Network, subnets, route tables and security groups to control inbound and outbound traffic.
* Build servers using AWS: Importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Manage Red Hat Linux and **Windows virtual servers** on AWS EC2.
* Work on **Auto Scaling**, Cloud Watch (monitoring), AWS **Elastic Beanstalk** (app deployments), AWS S3 (storage) and AWS EBS (persistent disk storage).
* Implemented and supported creating EC2 instances, S3 storage, Auto Scaling of instances and **Cloud WatchMonitoring** based on requirements.
* Implemented automation tools such as Puppet, Chef and DevOps.
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, Chef, Puppet, VMware, Amazon EC2.
* Managed build results in Jenkins and deployed using workflows.
* Maintain and track **inventory** using **Jenkins** and set alerts when the servers are full and need attention.
* Extensively worked on Jenkins for **continuous Integration** and for End to End automation for all build and deployments.
* Establish continuous build **automation deployment** via Jenkins.

**Environment: Unix/Linux, Jenkins, puppet, AWS, EC2, S3, RDS, EBS, ELB, GIT, Nagios, CHEF.**

**Client: FastPay, Beverly Hills, CA Dec 2010 – Jan 2012**

**Build & Release Engineer**

**Responsibilities:**

* Managed **Virtual servers** (Ubuntu, Linux and Windows) on AWS EC2 using Open-Source Chef server.
* Developed Shell/Perl Scripts for automation purpose.
* Created AWS Launch configurations based on customized **AMI** and use this launch configuration to configure auto scaling groups and Implemented AWS solutions using EC2, S3, RDS, Dynamo Db, Route53, EBS, Elastic Load Balancer, Auto scaling groups.
* Performed **Branching, Tagging, Release Activities** on Version Control Tools: SVN, GIT.
* Worked on Apache and Tomcat servers for **hosting** web apps.
* Creating, cloning Linux Virtual Machines, templates using VMware workstation.
* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation.
* Testing Puppet modules with puppet before uploading to puppet server.
* Installed **Jenkins** on a Linux machine and created a **master and slave** configuration to implement multiple parallel builds through a build farm.
* Puppet Manifests to provision complex **multi-node** applications composed of Ruby on Rails, Node, Apache, Nginx Passenger.
* Designed Puppet Modules to manage **configurations** and automate installation process.
* Has Experience in **continuous integration** technologies with Jenkins. Designed and created multiple deployment strategies using Continuous Integration and Continuous Development.
* Automated Continuous Build and Deploy Scripts for Jenkins Continuous Integration tool.
* Created Virtual Private Network, subnets, route tables and security groups to control inbound and outbound traffic.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.

**Environment: AWS, EC2, S3, RDS, Dynamo DB, GIT HUB, GIT, SVN, Puppet, Jenkins, Unix/Linux, Apache, Shell Scripts, VPC.**

**Client: Choice plus Benefits, Dallas, Texas   Oct 2009 – Nov 2010**

**Role: Build & Release DevOps Engineer**

**Responsibilities:**

* Worked as a **DevOps** Engineer for a team that involves three different development teams and multiple simultaneous software releases.
* Excellent interpersonal skills, ability to interact with people at all levels.
* Good experience in working with a team together to deliver best outputs in given time frames.
* Used **Shell scripts** to automate the deployment process.
* Worked on infrastructure with Docker containerization.
* Involved in setting up builds using **Chef** as a configuration management tool.
* Established Chef Best practices approaches to **system deployment** with tools with **vagrant** and managing Chef Cookbook as a unit of software deployment and independently version controlled.
* Written wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them in a chef solo environment.
* Created Chef cook books and recipes that kickoff post-install scripts.
* Assisted end-to-end release process from the planning of release content through to actual release deployment to production.
* Automated the **build and release** management process including monitoring changes between releases. Configure, monitor and automate Amazon Web Services.
* Created and managed custom CentOS and Linux based AMIs.
* Setup Elastic Load Balancer for distributing traffic among multiple WebLogic servers.
* Involved in deploying the content cloud platform on Amazon Web Services using EC2, S3 and EBS.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Collaborated with development support teams to setup a continuous delivery environment with the use of **Docker**.
* Used GIT as **source code** repository.
* Created the **branches** in GIT to implement the parallel development process.
* Build scripts using ANT and MAVEN build tools in Jenkins to move from one environment to other environments.
* Kept track of all releases and request of the developers through infrastructure management tool.

**Environment: GIT, Jenkins, Chef, Docker, Nagios, AWS, ANT, Maven, Shell Scripts.**

**Client: Natco Pharma, Hyderabad, India   June 2008 – Sep 2009**

**Role: Linux Administrator**

**Responsibilities:**

* Installed and configured **Apache / Tomcat web server**.
* Created users, manage user permissions, maintain **User & File System quota** on Red hat Linux.
* Bash **shell-scripts** to automate routine activities.
* Responsible for creating virtual machines and installing Redhat Enterprise Linux, CentOS and Ubuntu on it.
* Monitor and analyze servers and resolve any problems, maintain systems reporting, tuning.
* Created users, manage user permissions, maintain User and File system quota on Linux servers.
* Used configuration management tools such as Puppet.
* Worked on Installing and configuring Puppet and **creating manifests** for new servers and pushing them to servers using modules.
* Used Puppet to deploy code on multiple servers at a time.
* Diagnose and resolve problems associated with DHCP, DNS, VPN, NFS, Tomcat and Apache.
* Worked closely with the Networks and Security Team in opening firewalls and DNS requests required for infrastructure.
* Proficient in Networking and configuring TCP/IP, DNS, NFS, NIS, NIS+, SAMBA, LDAP, SSH, SSL, SFTP, SMTP, SNMP.
* Managed systems routine backup, scheduling jobs, enabling Cron jobs, enabling system logging and network logging of servers for maintenance.
* Performed RPM and YUM package installations, Change Management requests for software releases, patches using Puppet.
* Developed **Puppet Modules** for installation and Auto healing of various tools like Jenkins, MSSQL, and Nexus to work on both windows and Linux platforms.
* Installs Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
* Utilizing SAR, Netstat, Iostat and Vmstat for performance analysis, tuning and capacity planning, problem prevention, detection, and resolution.
* Coordinate and assist developers with establishing and applying appropriate branching, Continuous Delivery is being enabled through Deployment into several environments of Test, QA, and Production using Nexus and Jenkins.
* Configuring **SUDO** and granting root permission to Backup Admins/DBAs to perform root related activities.

**Environment: Puppet, Satellite, Shell Scripting, Jenkins Redhat Linux, CentOS, Ubuntu, TCP/IP, DNS, NFS, NIS, SAMBA, LDAP, SSH, SSL, SFTP, SMTP, SNMP, DHCP, DNS, VPN, NFS, Tomcat and Apache.**

**EDUCATION:**

Bachelors of Technology in Electronics and Communication Engineering, University, Acharya Nagarjuna University, India