Shakthivadivelu.N
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PROFESSIONAL SUMMARY

➢ Having **12 plus years** of IT experience and **7 plus years** of Devops Experience, **DevOps Engineer, AWS Cloud & Site Reliability Engineer** technology in the field of DevOps Automation/ AWS cloud migration/Linux system administrator/Application security and monitoring.

➢ Configured and administered AWS (Amazon Web services) like EC2 instances, S3, VPC, EBS volumes and snapshots, Security Groups, Elastic IP's (EIP), Key pairs, Elastic load balancing in development, QA and production environments. Managed and hosted multiple domains in AWS route53 service .

➢ Good experience in administering and configuring Continuous Integration tools like **Jenkins**, including master slave setup.

➢ Configured web servers (apache and nginx) and application servers.

➢ Handled multi node web and application server setup using **HAPROXY** Load Balancing.

➢ Good experience in managing files contents for web servers using **glusterfs service. Configured** glusterfs server of single brick with three replicas.

➢ Handling and administering MySQL database and configuring master and slave setup.

➢ Administration/Maintenance experience of source control management systems, such as SubVersion (SVN)

➢ Configuring devops automation tools like puppet and ansible.

➢ Experience in configuring Mail Server using sendmail service.

➢ Experience in **Docker** installation, configuration, creating docker files or images and managing the docker containers. Hands-on experience in creating **Docker** files and building images and deploying them to various environments.

➢ Implemented **GPG tool** to keep files private, **to encrypt files**.

➢ Good experience in configuring and administering monitoring tools.

➢ Giving training to the team members and sharing the technical aspects. Handling the team and coordinating the team to complete the work.

➢ Excellent Team player to work in conjunction with developers and team members

PROFICIENCY

Public Cloud	:	Amazon Web Service (AWS), Rack space , Digital Ocean
Tools	:	Jenkins, CruiseControl, Puppet, Ansible, GPG, SVN
Monitoring	:	Zabbix, phpservermon, cloudwatch, Freshping
Operating System	:	Linux (Centos & Ubuntu) , Windows Family (Server & Desktop)
Scripting Language	:	Shell Scripting
Web server	:	Apache Tomcat, httpd(2.4.20), nginx
Load Balancer	:	HAPROXY
Database	:	MY-SQL

Expertus Infotech Pvt. Ltd.,

Role	:	**DevOps Engineer**
Duration	:	03-July-2013 to 31-March-2017.
Work Location	:	Chennai

PEOPLEONE TECHNOLOGY Pvt. Ltd..

Current Role	:	**Senior DevOps Engineer**
Duration	:	1-April-2017 to Till Date.
Work Location	:	Chennai

Responsibilities and Contributions:

➢ Interacted with supporting teams to understand client deployment requests.
➢ Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
➢ Worked closely with Project Managers to understand a code/configuration release scope and to confirm a release was successful.
➢ Installed apache web servers, database server MYSQL and compiled php with the following components mcrypt, curl, mbstring, bcmath, calendar, ftp, ldap-sasl, ldap, bz2, mysqli=mysqlnd, pdo-mysql=mysqlnd, gettext, gdbm, sqlite3, openssl, zip, sodium and enabled modules for php.
➢ Build, manage, and continuously improve the build infrastructure for software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment.
➢ Proactively seeks opportunities to implement improvements to internal development processes.
➢ Implemented continuous integration using Jenkins. Created free style jobs for tagging and branching in jenkins.
➢ Created repositories in SVN according to the structure required for development.
➢ Configured http and https in application servers (Apache,Tomcat,Nginx) for hosting web apps.Managed web servers to run from various ports other than the default port.
➢ Created and configured multiple instances on Apache Server running in the same machine for different teams.
➢ Implemented Middleware Services and SSL Certificates.
➢ Utilize Jira for issue reporting, status, and activity planning.
➢ Created and maintained shell scripts for automating various activities.
➢ Maintained local repositories for docker images.Building Docker image from a docker container.
➢ Administered Subversion (SVN) repositories source tree and user account administration, branching, tagging, and managing users permissions.
➢ Debugged build failures and worked with developers and QA personnel to resolve related issues.
➢ Working and having periodic meetings with Enterprise Architects, Project Managers, Scrum Master, Vendors, Developers and Deployment Managers to define and implement a Software Configuration Management solution.
➢ Managed puppet(3.8.7v) by creating modules,manifests and various templates for configuration management.
➢ Managed users ssh public keys through puppet.
➢ Implemented and configured haproxy load balancer in http mode with openssl to manage multi node setup.Implemented stats page in Haproxy Load balancer to monitor sessions load traffic enters to the web servers.

- ➢ Led the migration process from rackspace data center to aws data center and Successfully migrated the production servers .
- ➢ Implemented and Configured Ansible to execute several scripts, commands for all production environments.
- ➢ Experienced in defining various branching, labeling and merging strategies. Experienced in defining various build and release workflows.
- ➢ Installed and configured Jenkins with different tools (plug-ins) for continuous integration process. Prepared general jobs in jenkins using shell parameters and integrated to CI Environment for build automation activity.
- ➢ Installing SSL certificates like .PEM, .crt for various clients in apache web servers.Generating CSR certificates to obtain SSL certificates.
- ➢ Setting up deployment regions and automating deployment processes to release environments.
- ➢ Implemented the automation scripts (Batch, shell Script) for deployment process to different environments.
- ➢ Automated nightly build, test, and reporting mechanisms using Jenkins.
- ➢ Responsible for ensuring the impacts of the released software for stakeholders by scheduling reviews as required.
- ➢ Worked along with QA team during load testing by monitoring server status using commands like glances, lsof,top.
- ➢ Working closely with offshore resources and providing support and advice on best practices for SCM and build automation.
- ➢ Implemented and configured monitoring tool phpservermon to manage and monitor services and websites.
- ➢ Implemented Zabbix tool for monitoring metrics, such as network utilization, CPU load and disk space consumption, user addition in a server(/etc/passwd file).
- ➢ Upgraded Transport Layer Security(TLs) version in web servers to enhance security while communication between web applications and servers.
- ➢ Enabled HTTP Strict Transport Security(HSTS) in production environments to improve web based security.
- ➢ Maintained local repository for docker images. Created docker containers from images with true privilege. Created docker volumes , and mounted containers to local file path. Created container with custom port forwarding and IP forwarding.
- ➢ Installed sftp server and administered by adding users and passwords. Merging all users to a single home directory named ftp.
- ➢ Implemented GPG encryption and decryption to encrypt files from the customer end, and decry-pt those files in our server.
- ➢ Installed and configured redis server in production environments with multiple ports.

Migrations and Upgrade:

- ➢ Migrated 30+ customer environments from **Rackspace cloud** to **AWS Cloud**.
- ➢ Migrated tools like subversion(svn), jenkins.
- ➢ Updated Apache web server from "httpd-2.4.20" to 2.4.35.
- ➢ Updated php from **"php-5.6.16" to "8.1.12"** and mysql from **"5.7.12" to "8.0.32"**.
- ➢ Updated Haproxy from "**1.7.2" to "2.0.7"** compiled with openssl **"OpenSSL 1.1.1l"**
- ➢ Upgraded and compiled Openssl in all production servers.
- ➢ Security updates have enabled TLS protocols in web server and haproxy configuration to "**TLSv1.3".**
- ➢ HTTP Strict Transport Security (HSTS) in production web servers.

PREVIOUS EMPLOYER

Crown Solutions India (P)Ltd., (Franchise of Wipro Info Tech)

Role   : **Desktop Support Engineer**
Duration   : 01-August-2011 to 31-May-2013.
Work Location : Chennai

Roles and Responsibilities:

➢ Installation and configuration of Windows NT/2000/2003 Servers and Windows 98, XP, Vista, Win 7 Clients.

➢ Administering Windows 2003 Server and managing the Active Directory and applying the policies for the Network users.

➢ Configuring DNS to make the system compatible with the respective Network.

➢ Installing & configuring antivirus client software.

➢ Anti Virus updates and MS Patches Management.

➢ Managing Users/Computer account, Profile backup and Security levels.

➢ Network Administration with switches, routers.

➢ Assembling & troubleshooting desktop, peripherals etc.

➢ Troubleshooting of network issues like LAN, Interfaces.

➢ Installing & configuring the Printers (DeskJet, Dot-matrix and LaserJet), Network Printers and Scanners.

➢ Installing, Configuring and Troubleshooting the problems for Lotus Client 8.5 Mail server.

Academic / Professional Qualification:

➢ Bachelor of Engineering in **Computer Science Engineering** from **Vellalar Engg and Technology** affiliated to ANNA UNIVERSITY, Chennai during the year 2007-2010.

➢ Diploma in Computer Engineering from Nandha Polytechnic College, Perundurai during the year 2005-2007.

➢ Higher secondary education from **Govt Boys Higher Secondary School, Chinnadharapuram, Karur** during 2003-2005.

➢ Secondary School Education from **Govt Boys Higher Secondary School, Chinnadharapuram, Karur** during 2001-2003.

Declaration

I, Shakthivadivelu do hereby confirm that the information given above is true to the best of my knowledge.

Place : Chennai
Date :   (N.Shakthivadivelu)