**C:\Users\Amar\Desktop\AWS_Certified_Logo_SAA_294x230_Color.pngNithish Chandra**

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**AWS DevOps Engineer**

**PROFESSIONAL SUMMARY**

* Overall, **6+ years** of extensive experience in Automating, configuring, and deploying instances on cloud environments and Data centers. Experience in the areas of **DevOps,** CI/CD Pipeline, Build and release management, **AWS, and Linux/Windows Administration**.
* Involved in designing and deploying applications utilizing almost all the**AWS** stack (Including **EC2, S3, Route53, ELB, EBS, VPC, RDS, DynamoDB, SNS, SQS, IAM, KMS, Lambda, Kinesis**) and focusing on **high-availability, fault tolerance** and **auto-scaling** in**AWS Cloud Formation,**deployment services (**OpsWorks and Cloud Formation**) and security practices (**IAM, CloudWatch,** **CloudTrail**).
* Implemented multiple **CI/CD** pipelines as part of DevOps role for on-premises and cloud-based software using **Jenkins, Chef and AWS/Docker.**
* Configured and managed Elastic Load Balancing **(ELB)** to implement fault tolerance and avoid single point of failure of applications, thus providing high reliability and efficient usage.
* Production experience in large environments using configuration management tools like **Chef**, **Ansible** and **Puppet** supporting **Chef** Environment with 500+ servers and involved in developing **manifests**. Developed Chef **Cookbooks** to manage systems configuration.
* Experience in developing **puppet** modules (blueprints) for installation, configuration, and continuous integration (**CI**) using combination of puppet master, **git**, **Openstack** (Horizon), and **Jenkins**.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker Hub** and **Docker-registries** and **Kubernetes**.
* Continuous Delivery setups with **Puppet** by creating manifest and maintain templates for different environments. Migration of shell scripts into **Puppet Manifests**.
* Created **Python** scripts to create the snapshots on **AWS S3** buckets and delete the old snapshots.
* Implemented **CI/CD** for **J2EE, SOA** & Micro services Architecture Environment (**NodeJS, .Net Core, Zookeeper, Kafka, Redis**) using **Jenkins**.
* Involved in **JIRA** as defect tracking system and configure various workflows, customizations and plugins for **JIRA** bug/issue tracker, integrated **Jenkins** with **JIRA**, **GitHub**.
* Involved in the functional usage and deployment of applications in **WebLogic, WebSphere,** and **Apache Tomcat Server.**
* Experienced in **Bash, Perl, Python, Ruby** scripting on Linux.
* Experience in administering and maintaining **Linux** servers in production environments. Supported in installation of packages/patches on**Linux** platforms. Implemented Backup & Disaster recovery management on **Linux** platforms.
* Experience of the full **Software Development Life Cycle (SDLC)**. Also experienced the Methodologies & Validations to ensure Quality Assurance Control.
* Experienced in configuration and maintenance of common Linux services such as **Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP**, **HTTPS, SSH**, **iptables** and **firewall** etc.
* Experienced with principles and best practices of Software Configuration Management **(SCM)** in **Agile, scrum, and Waterfall methodologies**.

**TECHNICAL SKILLS**

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| --- | --- |
| Operating Systems | RHEL/CentOS, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2010 |
| Cloud | AWS, Azure |
| Scripting | Bash, Shell, Ruby, PowerShell, Python, YAML |
| Build/Automation | Ansible, Chef, Puppet, Jenkins, Maven, Ant |
| Databases | MySQL, SQL Server, MongoDB, PostgreSQL, Cassandra |
| Bug Tracking | JIRA, Remedy |
| Version Control | GIT, Subversion, TFS |
| Web/App Server | Apache, IIS, TFS, Tomcat, WebSphere Application Server |
| Web/Programming | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Perl scripting, Python, Shell, Ruby, YAML |

**EDUCATION**

**Bachelor of Technology, Electronics and Communications Engineering** GITAM University, India

**PROFESSIONAL EXPERIENCE**

**ON Semiconductor – San Jose, CA Sept 2019 – Present**

**Sr. Cloud / DevOps Engineer**

* Involved in AWS **EC2**/**VPC**/**S3**/**SQS**/**SNS** based automation through **Terraform**, **Ansible**, **Python**, **Bash Scripts**. Adopted new features as they were released by Amazon, including **ELB** & **EBS**.
* Experienced **Cloud** and **DevOps** engineer in Automating, Configuring, and deploying instances on **AWS, AZURE** Cloud environments and Data centers.
* Configuring the monitoring and alerting tools according to the requirement like AWS **CloudWatch, AWS CloudTrail, Dynatrace, Nagios, Splunk Enterprise, SNMP** monitoring for the **VPN** connections.
* Written **Cloud Formation Templates** (CFT) in **JSON** and **YAML** format to build the **AWS** services with the paradigm of Infrastructure as a Code.
* Create automation and deployment templates for relational and **NoSQL** databases including **MSSQL**, **MySQL, Cassandra,** and **MongoDB** in **AWS.**
* Configuring, automation and maintaining build and deployment **CI**/**CD** tools **git**/ **git-Lab**, **Jenkins/Hudson, ANT, Maven**, **Build** **Forge**, **Docker**-**registry**/**daemon**, **Nexus** and **JIRA** for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of standardization for both infrastructure and application stack automation in **AWS** cloud platform.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with **Java, PHP, Node.js, Python, Ruby,** and **Docker** on familiar servers such as **Apache, and IIS.**
* Orchestrated and migrated **CI/CD** processes using Cloud Formation and **Terraform** Templates and Containerized the infrastructure using **Docker**, which was setup in **Vagrant, AWS** and **VPCs**.
* Developed microservice on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling **Kubernetes** **AWS** infrastructure and **microservice** container orchestration.
* Debugged **Chef Recipes** and their execution trying to pull logs into **Splunk** and monitor deployments.
* Automated the cloud deployment using **Chef, Python** and **AWS Cloud Formation** Templates. Used **Chef** for unattended **bootstrapping** in **AWS**.
* Utilized **Jenkins** **pipelines** to drive all microservices builds out to the **Docker** **registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes.**
* Built **Docker** container clusters managed by **Kubernetes** **Linux**, **Bash**, **GIT**, **Docker**, on **GCP (Google Cloud Platform)**. Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI**/**CD** system to build, test deploy.
* Installed and Implemented **Ansible** configuration management system. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (Ansible) and experienced in writing **Ansible scripts.**
* Created **Chef Cookbooks** and wrote recipes in **Ruby** Script to install and configured Infrastructure across environments and automated the process using **Python Script**.

**Wells Fargo – Houston, TX Sep 2018 – Aug 2019**

**AWS DevOps Engineer**

* Designed **AWS** Cloud Formation templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates.
* Virtualized the servers on **AWS** using the **Docker**, create the **Docker** files and version control to achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx**.
* Experience with setting up **Chef** Infra, **bootstrapping** nodes, creating, and uploading recipes, node convergence in **Chef SCM**.
* Written **Chef Cookbook**, recipes to automate installation of Middleware Infrastructure like **Apache** **Tomcat, JDK** and configuration tasks for new environments etc.
* Wrote **Chef** recipes and deployed cookbooks for Web Logic, JDK 1.7, and Jenkins, tomcat, JBoss and deployment automation.
* Using **Chef,** deployed and configured **Elasticsearch, LogStash and Kibana (ELK**) for log analytics, full text search, application monitoring in integration with **AWS Lambda** and **CloudWatch**.
* Managed Amazon instances by taking **AMIs** and performing administration and monitoring of the Amazon instances like **EC2** using Amazon **CloudWatch** and **Nagios, Splunk.**
* Troubleshooting Issues related to **Cluster** deployments, managing **Cluster** nodes for Physical issues and escalating issues to respective vendors.
* Setting up private networks and sub-networks using Virtual Private Cloud (**VPC**) and creating security groups to associate with the networks.
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage Java applications across Linux servers.
* Created and updated **Puppet manifests** and modules, files, and packages stored in the **GIT** repository. Writing various **puppet** manifests files with **Hiera** and customized functions and defined resources
* Scheduled the **Linux** **Cron** **jobs** and **Jenkins** jobs for **build** automation. Developed **Perl** and **shell** scripts for automation of the build and release process.
* **Deployed** and **troubleshoot** of various **Jenkins** issues. Installed and uninstalled, upgraded, and downgraded various **plugins** in **Jenkins**.
* Assisted developers with establishing and applying appropriate branching, labeling conventions using **GIT** source control.
* Maintained build related scripts developed in shell for **Maven** builds. Created and modified build configuration files including **POM**.xml.
* Setup a **Jumpstart**/**Flash** and **Kickstart** servers for provisioning of servers with different profiles.
* Installation of Red Hat EL 4.x, 5.x using **Kickstart** and **PXE** on HP DL380 G3.
* Performed backup and administration activities for **SVN**/**GIT** branching, merging, tagging.

**Nimble Lifetech Pvt. Ltd. – Noida, India Sep 2017 – Aug 2018**

**Linux Administrator**

* Administration of **Windows Servers**, Domains, **Active Directory, DNS, DHCP, SMTP**, SharePoint, System Center, Lync, and Exchange
* Conduct day-to-day tasks in **RHEL** that included upgrading **rpms, kernel, HBA driver, configuring SAN Disks**, multipathing and **LVM** file system.
* Installing and updating packages using YUM (custom YUM servers/repositories) and **Red Hat Satellite Server**.
* Installation and configuration of Red hat Cluster, Veritas Cluster Server and Veritas **NetBackup, Apache, Tomcat, WebLogic 9, 10, and JBoss.**
* **Monitors system capacity & performance** and takes appropriate action to report and correct all issues.
* Implementing **Kickstart/PXE-boot configuration** for automating Linux installations
* Plan, build, document, and support new infrastructure including **VMware and vSphere** virtualization servers, new fileserver, and other resources.
* Automate processes including full and incremental backups using tar and star; migrate and enlarge file systems on **Red hat and CentOS**.
* Administered Linux servers for several functions including managing **Apache/Tomcat server, mail server, MySQL databases** in both development and production.
* Manages Patches **configuration, version control, service pack and reviews connectivity issues** regarding **security** problem and did network management **TCP/IP, NIS, DNS, NFS, VLAN**.
* Monitoring health of infrastructure servers and mission-critical using **Nagios XI**.
* Providing solutions to the client about **Disk mirroring and RAID** implementation using **LVM**.
* Setup **NFS File Systems** and shared them for Clients, Maintenance of **NFS Server** with **Auto Mounts**.
* Serve as regional support for project's Team Foundation Server environment including **configuration, maintenance, and performance analysis.**

**Fintech Software Solutions Pvt. Ltd – Chandigarh, India Jan 2015 – Aug 2017**

**System Administrator**

* Installation, configuration, and maintenance of **RedHat Linux servers**.
* Performed server installation using Network-Based **Kickstart** and DVD on **physical servers, VMware and OVM.**
* Responsible for providing 3**backup support** across 5 environments of approximately 500+ servers.
* Implemented and configured network services such as **HTTP, DHCP, and TFTP**.
* Installed and configured **Kickstart, DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Linux servers**.
* Harden operating system by installing recommended **patches**, monitor the servers by using **TCP dump**, disable services in a bid to minimize and or eliminate unauthorized server access.
* Developed **shell scripts** to automate repeatable tasks; used **bash shell scripting** to manage directories, files, users, and applications.
* Expert on setting up and maintaining **Active Directory**.
* Install, configure, and support Enterprise network/server monitoring tools. (**Manage Engine/Site 24x7, SolarWinds, CA, Nagios)**
* Monitoring **CPU, memory, iSCSI disks, disk controllers, physical disk, HW and SW RAID, multipath, file systems**, network using the tool **NAGIOS**.
* Developing scripts to be executed as checks by **Nagios** for execution in both **Windows and Linux** environments.