**Nithish Chandra**

**AWS DevOps Engineer**

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**PROFESSIONAL SUMMARY**

* Overall, 7 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**).
* Experienced in cloud automation using**, AWS cloud Formation Templates**, **Chef, Puppet**.
* Implemented multiple **CI/CD** pipelines as part of DevOps role for on-premises and cloud-based software using **Jenkins, Chef and AWS/Docker.**
* Involved heavily in setting up the **CI/CD** pipeline using **Jenkins, Maven, Nexus, GitHub, Puppet, Terraform** and **AWS.**
* 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.
* **Kubernetes**is being used to orchestrate the deployment, scaling and management of **Docker** Containers.
* Used **Jenkins** **pipelines** to drive all microservices builds out to the **Docker** **registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes.**
* Building/Maintaining **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.
* **AWS** and **OpenStack** to provision new machines for clients. **S3** Storage Services on **AWS.**
* Developed microservice on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* 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.
* Written **Chef Cookbooks**, recipes to automate installation of Middleware Infrastructure like **Apache Tomcat**, **JDK** and configuration tasks for new environments etc.
* Experience in developing **puppet** modules (blueprints) for installation, configuration, and continuous integration (**CI**) using combination of puppet master, **git**, **R10K** **wrapper**, **Openstack** (Horizon), **Vagrant** and **Jenkins**.
* Continuous Delivery setups with **Puppet** by creating manifest and maintain templates for different environments. Migration of shell scripts into **Puppet Manifests**.
* Wrote **Puppet** code to provision infrastructure including **LAMP** stacks, **Oracle middleware, Artifactory and Docker.**
* Move development application from **Docker containers** and deploy into production **Cloud Foundry** environment.
* Experience in Configuration Management, Cloud Infrastructure, and Automation like **Amazon Web Services (AWS), Ant, Maven, Jenkins, Chef, SVN, GitHub, Clear Case, Tomcat, and Linux.**
* Utilize Cloud formation and **Puppet** by creating DevOps processes for consistent and reliable deployment methodology.
* Setup the **Python** scripts to create the snapshots on **AWS S3** buckets and delete the old snapshots.
* 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**.
* Having good hands-on experience with Apache **Kafka**
* 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.**
* Extensively 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.
* Troubleshooting any build issue with **ELK** and work towards the solution.
* 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.
* Strong understanding in writing the automation of processes using the shell script with **bash** and **Python**
* Building servers with **jumpstart** using **Kickstart**, CD on timely basis, along with corporate wide requirements
* Experienced with principles and best practices of Software Configuration Management **(SCM)** in **Agile, scrum, and Waterfall methodologies**.

**Technical Skills**

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| --- | --- |
| **Cloud Services** | **Amazon Web Services (AWS), OpenStack, Google Cloud Platform (GCP)** |
| **Virtualization** | **VMware ESX/ESXI, Windows Hyper-V, vSphere, Datacenter Virtualization, Power VM, Virtual Box, Citrix Xen, KVM.** |
| **Operating Systems** | **Red Hat Linux, CentOS, Fedora, SUSE LINUX, UNIX, Windows, Windows, Ubuntu, Sun Solaris, HPUX 10.x/11.x** |
| **Automation/configuration Tools** | **Chef, Puppet, Docker, Vagrant, Ansible, Jenkins, Hudson, Bamboo, Kickstart, Jumpstart, Terraform, Kubernetes, ANT, Maven.** |
| **Web Servers** | **Apache Tomcat, JBOSS, Web Logic, WebSphere ­­Apache, Apache, and NGINX, IIS** |
| **Database Technologies** | **DB2, SQL Server, MySQL, RDS, NoSQL- MongoDB, Cassandra DB, DynamoDB** |
| **Scripting languages** | **Ruby, Python, Perl, PHP, Bash/shell Scripting, PowerShell Scripting YAML, JSON.** |
| **Networking/Protocol** | **FTP/SFTP, SMTP, TCP/IP, HTTP/HTTPS, NDS, DHCP, NFS, Cisco Routers, Juniper Routers** |
| **Version Control Tools** | **GIT, Bitbucket** |
| **Monitoring Tools** | **Nagios, Splunk, Elasticsearch, Logstash and Kibana (ELK), ­ CloudWatch, Cloud Trial** |

**Professional Experience**

**Sr. Cloud / DevOps Engineer**

ON Semiconductor

**San Jose, CA September 2019 to Present**

**Roles and Responsibilities:**

* Experienced **Cloud** and **DevOps** engineer in Automating, Configuring, and deploying instances on **AWS, AZURE** Cloud environments and Data centers.
* Expertise in 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.
* Configure **ELK** stack in conjunction with **AWS** and using LogStash to output data to **AWS S3**
* 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**.
* DevOps role converting existing AWS infrastructure to Server-less architecture **(AWS Lambda, Kinesis)** deployed via **terraform.**
* Experience in Virtualization technologies like **VMWare**, **Vagrant** and worked with containerizing applications like **Docker, Kubernetes**.
* 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.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker Hub** and **Docker-registries** and **Kubernetes**.
* Experience with setting up **Chef** Infra, **Boot strapping** nodes, creating, and uploading recipes, node convergence in **Chef** **SCM**.
* Created private cloud using **Kubernetes** that supports **DEV, TEST**, and **PROD** environments.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling **Kubernetes** **AWS** infrastructure and **microservice** container orchestration.
* Debugging **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**.
* 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.**
* Implemented and maintained **Ansible** Configuration management spanning several environments in **Vrealize** and the **AWS** cloud.
* Configured **Subclipse** (Subversion plugin for Eclipse) and trained developers to utilize its various features Extensively used **Ant**, **Maven**, **Perl,** and **Bash** Scripts for automating build and release tasks.
* Integration with **Splunk** for API traffic monitoring and health checks.
* Played a key role in converting 600+ existing **Jenkins** jobs into the new pipeline process.
* Prepared document on process of migrating **Jenkins** jobs from development environment to production server.
* Created **Chef Cookbooks** and wrote recipes in **Ruby** Script to install and configured Infrastructure across environments and automated the process using **Python Script**.
* Involved in Setting up **Chef Workstation**, **boot strapping** various enterprise nodes, setting up keys.
* Created **Puppet Manifests** to provision **Apache** Web servers, **Tomcat** servers, **Nginx**, **Apache** **Spark,** and other applications.

**Environment**: Red hat Linux 7.x, AWS, Chef, puppet,Docker, Ansible, Jenkins, Kickstart, Jumpstart, Terraform, Kubernetes, ANT, Maven**,** Ruby, Shell, Python, WebLogic Server 11g, Load Balancers, WLST, Apache Tomcat 7.x, Virtualization, Configured plug-ins for Apache HTTP server 2.4, Nginx, LDAP, JDK1.7, XML, SVN, GitHub,Nagios, Splunk**.**

**AWS DevOps Engineer**

**Wells Forgo**

**Houston, TX January 2019 to August 2019**

**Roles and Responsibilities:**

* Experience in Automating, Configuring, and deploying instances on **AWS and Azure** Cloud environments.
* 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.
* Written 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.

**Environment**: AWS, Chef, Puppet, Jenkins, Maven, ANT, Ruby, Shell, Python, WebLogic Server 11g, Load Balancers, WLST, Apache Tomcat 7.x, Docker, Virtualization, Configured plug-ins for Apache HTTP server 2.4, Nginx, LDAP, JDK1.7, XML, SVN, GitHub, CloudWatch, Splunk.

**DevOps Engineer**

**Accenture**

**Hyderabad, India March 2017 - August 2018**

**Roles and Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems.
* Implemented continuous integration using **Jenkins.**
* 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.
* Well used and experience in deploying the code through web application servers like **Apache Tomcat** and **NGINX**.
* Provide CM and Build support for applications, built, and deployed to lower and higher environments.
* Developed build and deployment scripts using **MAVEN** and **Gradle** as build tools in **Jenkins** to move from one environment to other environments.
* Deployed **Chef** Dashboard for configuration management to infrastructure
* Involved in Building and configuring Red Hat Linux Servers using **Kickstart** server as required for the project.
* Implemented **Nagios** monitoring solution for mission critical server. Monitored the server and application using **Nagios**, and **Splunk.**
* Implemented and configured **Nagios** for continuous monitoring of applications in the production environment and enabled notifications via emails and text messages.
* Wrote JUnit test cases for unit, integration, and functional tests, run automatically by **Hudson/Jenkins** in the builds triggered by each push to **GIT**.
* Automate the code review process and published the results on**Jenkins** as well the graph by comparing everyday nightly builds
* Managed **GIT** repositories for branching, merging, and tagging.
* Configured **GIT** with **Jenkins** and schedule jobs using POLL **SCM** option and integrated to automate the code checkout process.
* Experience with **Agile** to develop and work with the client to calibrate releases for test deployment.
* Created Branches, Labels and performed Merges in **Stash** and **GIT**.
* Developed processes, tools, automation for **Jenkins** based software for build system and delivering SW Builds.
* Built and deployed J2EE application in **JBoss** in an **agile** continuous integration environment using **Python** scripts
* Involved in the development of **Bash shell scripts** to automate repetitive tasks.
* Installed and configured **Jenkins** for Automating Deployments and providing an automation solution.
* Integrated **GIT** into **Jenkins** to automate the code checkout process.
* Maintained and administered **GIT** source code tool.

**Environment:** RHEL, Solaris, Python, JBoss, Chef, Nagios, Splunk, Kickstart, Hudson, Jenkins, Ruby, GIT, Veritas, SVN, Ant, Bash/shell scripts, JIRA.

**Build & Release Engineer July 2015 – February 2017**

**TCS**

**Hyderabad, India.**

**Roles & Responsibilities:**

* Administered **Bamboo** servers which include install, upgrade, backup, adding users, creating plans, installing the local/remote agent, adding capabilities, performance tuning, troubleshooting issues, and maintenance.
* Setting up continuous integration and formal builds using **Bamboo**with **the Artifactory** repository and Resolved update, merge and password authentication issues in **Bamboo** and **JIRA**.
* Developed and implemented build and deployment process using **Bamboo** in various   
  environments such as QA, UAT, PROD using Bamboo.
* Used **Puppet** to manage Web Applications, Config Files, Data Base, Commands, Users   
  Mount Points, and Packages.
* Used **Puppet** for creating scripts, deployments for servers, and managing changes through **Puppet master** server on its clients.
* Developed the **scripts** to push patches, files and maintain configuration drift through the **Puppet** tool.
* Designed and scripting using **ANT** for J2EE, Web Services, Reusable JARS, Web Client and Open Source in creating Master build.xml build Properties & pom.xml files and provided technical support to the development team for compilation problems.
* Initiated responsibility for administering the **SVN** servers which included install, upgrade, backup, adding users, creating repository/branches, merging, writing hooks scripts, performance tuning, troubleshooting issues, and maintenance. Implemented a **GIT** mirror for SVN repository, which enables users to use both SVN and GIT.
* Integrated **JIRA** with **SVN** and created automated release notes using **Perl Scripts**.
* Wrote, maintained, and documented modules, manifests, **Git** **repositories** for **Puppet** enterprise on **RHEL** and **Windows** platforms.
* Involved in troubleshooting the automation of installing and configuring **Java** applications in the test and production environments.
* Reviewed existing manual Software builds, developed scripts to automate repeated tasks that are more susceptible to errors and risk using **Perl** and **Shell** **Scripting**.
* Administered **Nexus server** which includes installing, upgrade, maintenance of repositories, performance tuning, troubleshooting issues, and maintenance.
* Used **Bugzilla** for bug tracking and reporting, also followed up with the development team to verify bug fixes, and update bug status.
* Development of Scheduled tasks and **UNIX** scripts and **Perl** to maintain and automate the Build process.
* Involved in Building and configuring **Red Hat** **Linux** Servers using **KickStart** server as required for the project. Maintained maximum uptime and maximum performance capacity for enterprise prod, **QA,** and **UAT/staging.**

**Environment: Puppet**, **SVN**, **GIT**, **ANT**, **Jira**, **Perl**, **Shell**, **Bamboo**, **RHEL**, **Windows**, **Bugzilla**, **Nexus**.

**Nimble Lifetech Pvt. Ltd. – Noida, India December 2014 – April 2015**

**Linux Administrator**

**Responsibilities:**

* 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.
* Senior-level **Administration** of 90+ high-level world-wide **virtual systems**.
* 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.**

**Environment:** RHEL6.3,6.4,6.5, KeyVault, ServiceBus, kickstart, NetBackup, Apache/Tomcat, PowerShell, Nagios,

LVM, VMware, DNS, AD, DHCP, RAID, LVM, NFS, VMware.

**Fintek Software Solutions Pvt. Ltd., Chandigarh India (Intern) May 2014- August 2014**

**System Administrator**

**Responsibilities:**

* 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.

**Environment:** Windows Server, RedHat Linux, Apache, VMware, OVM, kickstart, Apache, SolarWinds, IIS, Nagios, Shell, DHCP, shell, bash, AD.

**Education**

**Master of Science, Computer Engineering GPA: 3.4/4.0 December 2019**

University of Houston Clear Lake, Houston, Texas.

**Bachelor of Technology, Electronics and Communications Engineering GPA: 3.5/4 May 2015**

GITAM University, Visakhapatnam, INDIA.