

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

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, HP-UX 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 Trail

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 Fargo

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

TCS

July 2015 – February 2017

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)
System Administrator

May 2014- August 2014

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 **3backup 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.