

**Hemanth Nadella**

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**Professional Summary:**

* Professional with **7 plus** years of experience in the IT industry comprising of Software Configuration Management and Linux Systems Administration.
* Zeal for automation and involved in various automation projects.
* Extensively worked in end-to-end automation of infrastructure and applications with configuration management tools in physical, Virtual, Cloud Environments.
* Proficient in AWS Cloud stage and its components which incorporates EC2, EBS, AMI VPC, S3, RDS, IAM, Cloud Watch, Cloud Trail, SNS, **Cloud Formation**, **AWS Config**, Auto-scaling, CloudFront, **ROUTE53**, DynamoDB, API Gateway Elastic Beanstalk, **Code Deploy**, **Code Pipeline** and **Ops-work**
* Great comprehension of AWS Elastic Block Storage (EBS), different volume sorts and use of various sorts of EBS volumes in the light of necessity.
* Designed S3 life-cycle of Applications and Database logs, including erasing old logs, archiving logs considering the maintenance policy of Apps and Databases.
* Dealt with Multiple AWS instances, setting up the **Elastic Load Balancer** and AMIs, Auto-scaling to configuration for cost effective, fault tolerant and highly available
* By using AWS Identity and Access Management (IAM), Provided security and managed user access and quota, including creating new Policies for user management in **JSON**
* Good knowledge of **S3 storage techniques**, for example versioning, life cycle strategies, cross region replication, Glacier and Amazon Management Console
* Experienced in **Windows, Ubuntu, Red Hat Linux, SUSE Linux, Centos and Solaris servers** for Administration in Production, Development and Test environment's.
* Strong understanding of current web like **Apache, Tomcat, Nginx** and technologies like
* **MongoDB**, **Elastic search, Memcache .**
* Good understanding of the principles and best practices of **Software Configuration Management (SCM**) in **Agile, scrum,** and **Waterfall** methodologies
* Experienced in **Docker** Installing, Configuring and Managing Containers, Docker Images for Web Servers and Applications servers, for example, Apache, Tomcat utilizing Docker and coordinated with Amazon **MySQL RDS database.**
* Worked with systems administration groups in configuring **AWS Direct Connect** to build up dedicated connection with datacenters and AWS Cloud.
* Solid understanding **Git** including branching and merging strategies.
* Experience in utilizing **Nexus and Artifactory** Repository Managers for **Maven builds**
* Deployed and configured Chef Server and bootstrapping the chef client nodes.
* Incorporated Jenkins with Maven and **Ant** build tools to build packages to deploy in live servers.
* Designed **Jenkins** and **Puppet** for continuous integration and also for automation of all build and deployments.
* Extensively worked on end to end automation of infrastructure and continuous delivery of the applications by coordinating **CloudFormation scripts, Jenkins, AWS and CHEF cookbooks** and recipes.
* **Compilation** and **deployment** of **Shell** and **Perl** scripts, automation of builds and **PowerShell** for Windows deployment and Administration.
* Active Directory administration and supporting & maintaining windows servers
* Making codes by utilizing the scripting languages like **python** and essential **Ruby**

**Technical Skills:**

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| --- | --- |
| **Cloud Technologies** | AWS, Open Stack, Microsoft Azure |
| **Operating Systems** | RedHat Linux, CentOS, Ubuntu, UNIX, Solaris, Windows |
| **Configuration Management Tools** | Puppet, Chef, Ansible, |
| **SCM Tools** | Subversion, GIT |
| **Web/App servers** | WebLogic, WebSphere, Apache Tomcat, JBOSS |
| **Scripting Language** | Bash, Shell, Perl, Python, Ruby ,PowerShell |
| **Build Tools** | Ant, Maven, Gradle , Jenkins, uDeploy |
| **Containers** | Docker & [Kubernetes](https://kubernetes.io/) |
| **Databases** | Oracle, SQL Server, MySQL, Dynamo DB, MS-Sql. |

**Client: EVERSOURCE ENERGY, BERLIN, CT FEB 2017 - PRESENT**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* In the Amazon Web Services Build and configured a virtual data center which cloud support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Utilized AWS Elastic Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on servers
* Involved in loading data from On-premises data warehouse to AWS's Cloud using different approaches like **Sqoop** and AWS Services
* Used AWS IAM to grant access to AWS resources through configuration of roles, policies and **web identity federation**
* Used AWS CloudFront (content delivery network) to deliver content from AWS edge locations drastically improving user experience and latency
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT
* Writing JSON templates for cloud formation and ruby scripts for chef automation and contributing to our repository on Github
* Dealt with the scaling part including HA proxy and Integrated with load balancers using **OpenShift.**
* Involved heavily in setting up the CI/CD pipeline using **Jenkins, Maven, Nexus, GitHub, Puppet, Terraform** and AWS
* Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers
* Implementing a **Continuous Delivery** framework using **Jenkins, Puppet, Maven & Nexus** in Linux environment
* Responsible for operational support activities to ensure availability of customer websites hosted on AWS cloud infrastructure using Virtual private cloud and public cloud.
* Used Jenkins, Build forge for Continuous Integration and deployment into Tomcat Application Server
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using **Terraform.**
* Experienced in writing new plugins to support new functionality in Terraform.
* Improving Continuous Integration workflow using Virtual Environments like Docker
* Developed strategies, and contracts for validation of deployments and automated rollbacks in **uDeploy**
* Responsible for defining branching & merging strategy, checkin policies, improving code quality, automated Gated Checkins, defining backup and archival plans.
* Troubleshoot and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Setup and executed process to code review system effectively.
* Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** to move from one environment to other environments
* Devops Tooling SME responsible for implementing and administering the integrated enterprise tool suite consisting of JIRA, HP ALM, GitHub, Jenkins and other Devops tools
* Used SonarQube for code quality
* Configured **Nagios** to monitor **EC2** Linux instances
* Configure ELK stack in conjunction with AWS and using Logstash to output data to AWS S3
* Created Python scripts to totally automate AWS services which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks
* Performed the automation deployments using AWS by creating the IAM roles and policies and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.

**Environment:** AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud watch, ALM, VDI, Linux, Puppet, Git version Control, OpenShift, AWS CLI, AWS Auto Scaling, Maven, Nagios, Subversion, Jenkins, Unix/Linux, Shell scripting, Terraform, Docker.

**Client: HOSPARUS HEALTH, LOUISVILLE, KY DEC 2015 TO FEB 2017**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* Experienced in Administration of Production, Development and Test environment's carrying
* Red Hat Linux, SUSE Linux, Ubuntu, Centos, Windows and Solaris servers
* Involved in designing and deploying applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS
* Experience in installing, configuring and maintaining for continuous integration (CI) and for End to End automation for all build and deployments and managed builds for multiple concurrent and overlapping releases
* Using Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks.
* Automate provisioning and repetitive tasks using Terraform and Python, Docker container, Service Orchestration
* Configure ELK stack in conjunction with AWS and using Logstash to output data to AWS S3
* Using CloverETL migrated data to **AWS Redshift**
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Custom Ansible modules for finding facts about Cloudwatch alarms and taking actions to pause/unpause those alarms during deployments.
* Performed the automation deployments using AWS by creating the IAM roles and policies and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Configured **GIT** with Jenkins and schedule jobs using POLL SCM option.
* Reduced build + deployment times by designing and implementing Docker workflow.
* Designed distributed private cloud system solution using **Kubernetes** (Docker) on CoreOS.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Enhanced the automation to assist, repeat and consist configuration management using Ansible based YAML scripts
* Automated Weekly releases with ANT/Maven scripting for Compiling Java Code, Debugging and Placing Builds into **Maven Repository**.
* Maintained and troubleshoot systems performance and network monitoring using tools like Nagios (installed on RedHat), and AWS services such as Cloud watch and Cloud Trail
* Deployed applications on **JBoss** and WebLogic Servers. Maintained load balancing, high availability and failover functionality.
* Created custom **PowerShell** scripts for software installation.
* Configured **SPLUNK** Alerts and created Dashboards for Monitoring.
* Responsible for operational support activities to ensure availability of customer websites hosted on AWS cloud infrastructure using Virtual private cloud and public cloud.
* Worked on deployment and configuration of Pivotal Cloud Foundry on different cloud providers like VMWare and Microsoft Azure for different customers
* Review, design and develop the Apps Authentication and Authorization using **Active Directory** and its integration with enterprise AD.
* Used Aws Directory service and taken the manual snapshots of data for an AWS Directory service for Microsoft Active Directory.
* Migrating and maintaining build and test environments into the Cloud Infrastructure.

**Environment**: AWS EC-2, Route 53, S3, VPC, ELB, Cloudwatch, GIT, ANT, Maven, Jenkins, Ansible, Docker, Kubernetes, Nagios UNIX, Linux, Shell Scripts, Jboss, WebLogic, Jira, Splunk, Python

**Client: TJX, FRAMINGHAM, MA AUG 2014 TO NOV 2015**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* Created, deployed and tested an End to End CICD pipeline for different applications utilizing Jenkins as the principle Integration server for Dev, QA, Staging, UAT and Prod Environments.
* Use the CloudFormation templates with Jenkins plugins, created an application specific architecture.
* Utilizing CloudFormation Templates Deployed Dev, QA, Staging, UAT and Prod Environments.
* Created BASH and Python scripts utilizing **lambda** functions for automation of the build and release process.
* Setup VPC's and subnets utilizing CloudFormation for different applications.
* The entire deployment and release process is documented.
* Made customized AMIs based on existing AWS EC2 instances by using create image functionality, subsequently utilizing this snapshot for disaster recovery.
* Build servers utilizing AWS: launching EC2, importing volumes configuring security groups and Elastic IP's, auto-scaling, load balancers, Route 53, SES and SNS in the defined VPC.
* Installed and configured Jenkins and created customized jobs to commencement builds for various environments. Integrated Subversion (SVN) into Hudson / Jenkins to automate the code check-out process.
* Coordinated **Selenium** Testing Framework with Jenkins for different Environments.
* Enabled Logging on EC2, S3, Dynamo DB, RDS, CloudTrail, CloudFront, AWS config, AWS inspector, AWS API gateway, Lambda Application server.
* Setup the Splunk server and configured SplunkAddon for AWS, Install Splunk Agents and Integrate **Splunk** to get logs.
* storing Build artifacts by setup the **nexus repository** server.
* configure Jenkins Pipeline for Application Specific Infra Code Deployment.
* Backing up EBS volumes and similar maintenance tasks by writing AWS CLI scripts.
* Utilizing Docker in Environment variables, Configuration records, Option sorts and Strings.
* Based on the elastic load balancer traffic, configured auto scaling in customized VPC and using ELB health check to trigger auto scaling actions.
* Utilized IAM to create new accounts, groups and roles.
* Configured applications in virtual private cloud(VPC) and solidified it from malicious attacks by security groups (instance level) and network access control lists (subnet level) and using network access translator (NAT) instance.
* chef is integrated with centralized log management to be utilized by developers.
* Virtualized the servers utilizing the Docker for the test environments and development conditions needs. And furthermore, configuration automation utilizing Docker containers.
* for different DB designs to modularize and to improve product configuration Written Chef Cookbooks.
* Setup Chef server and mechanized the way toward **bootstrapping** the nodes and registering with the Chef server.
* Assessed testing of Chef Recipes - Concept of Test Driven Development for Infrastructure as a Code.
* Executed Chef Cookbooks for OS component configuration to keep AWS server's template minimal.
* Executed Chef Recipes for Deployment on build on internal Data Center Servers. Additionally, re-utilized and altered same Chef Recipes to make a Deployment straightforwardly into Amazon EC2 instances.
* Wrote Recipes & Cookbooks and uploaded them to Chef-server, Installed Workstation and Bootstrapped Nodes.by using chef cookbooks managed on-site applications and EC2, S3 and ELB
* Experienced in setting up **MySQL, SQL, Aurora** on AWS.

**Environment**: Docker, Chef, AWS tools, SVN, ANT, Jenkins, LAMP, Maven, Apache Tomcat, Shell scripting, Nexus Artifact repository.

**Client: BOSTON MEDICAL CARE, BOSTON, MA OCT 2012 TO JULY 2014**

**Role: DevOps Administrator**

**Responsibilities:**

* Worked on chef and used knife commands to manage nodes, cookbooks & recipes.
* Took advantage of Chef recipes to initiate new app server instances and configured app server software to deploy apps.
* Automated the infrastructure and deployment process using Chef recipes.
* Handled the build and deployment scripts by using **RUBY** in chef and used Jenkins to move across different environment platforms.
* Created user accounts, user administration, local and global groups using Red-Hat Linux platform.
* Configured & maintained few Linux applications such as Apache, active, NFS, BIND, SSH, DHCP, and SNMP.
* Modernized the existing application configurations by adding additional hardware into a pool of Linux/Windows environment.
* Designed and administered system upgrades like hardware, operating system and periodical patch upgrades.
* Regular disk management like adding / replacing hot swappable drives on existing servers/workstations, partitioning according to requirements, creating new file systems or growing existing one over the hard drives and managing file systems.
* Initiated Jenkins for Automating Deployments and integrated GIT into Jenkins to automate the code checkout process.
* Used Jenkins for automating Builds and Automating Deployments.
* Maintained and tracked inventory using Jenkins and set alerts when the servers are full and needed attention.
* Executed all required day-to-day GIT support for different projects.
* Splunk deployment, configuration and maintenance across a variety of UNIX and Windows platforms.
* Maintaining and troubleshooting system performance and network monitoring using **Nagios**.
* Experience in monitoring System/Application Logs of server using Splunk to detect Prod/Non-Prod errors etc.
* Built scripts using **ANT** and MAVEN in Jenkins to move from one environment to another.
* Experience with build tools Ant, Maven and writing build.xml and pom.xml respectively.
* Used ANT and Python scripts to automate the Build and deployment process to deploying the web services.
* Created **kickstart** files customization to enable automation of various server installations.
* Initiated, upgraded and configured Linux servers using Kickstart and recovered the root password.
* Deployed and managed applications across Linux servers using puppet and automated scripting in python.
* Implemented zero downtime deployment process in **WebLogic** using python and shell script and automated it using Jenkins.

**Environment:** Chef, Linux, Python, Perl, Chef, Jenkins, Vagrant, CF Engine, SVN, TFS, Ant, Maven, Bash, Ruby, GIT, Nagios.

**Client: K-VAN SOLUTIONS PVT LTD, INDIA APR 2011 TO SEP 2012**

**Role: Build and Release Engineer**   
**Responsibilities:**

* Amenable for maintaining Linux servers (RHEL, Ubuntu and Amazon) as well as guaranteeing the health and stability of the server.
* Working experience in using variety of Linux platforms like Red Hat Linux, Solaris in performing installation, configuration and maintenance of applications on this environment.
* Administered continuous integration and build tools using Ant, Jenkins, chef full automation.
* Troubleshoot the build issue during the Jenkins build process.
* Worked with development/testing, systems/infrastructure, deployment project teams to ensure continuous operation of build and test systems.
* Maintained file systems: Checking, repairing and monitoring file system usage.
* Good Knowledge in writing UNIX scripts, Perl script, Maven and ANT.
* Developed build scripts using ANT as the build tool for the creation of (WAR files) build artifacts.
* Involved in troubleshooting the automation of Installing and configuring JAVA applications in the test and pre-production environments.
* Deployment and implementation of Chef for infrastructure as code initiative.
* deployed the archives like war files into the Tomcat Application Server and TCP Servers.
* Played a key role in editing the existing ANT build files in case of project requirement changes.
* Used Logical Volume Manager for the managing volumes mainly in creating physical and logical volumes on Linux.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments.

**Environment**: Red hat Linux, Ubuntu, Jenkins, chef, ANT, java, RHEL, JVM

**Client: C-TECH SOLUTIONS, INDIA JUL 2010 TO APR 2011**

**Role: Jr. Linux / UNIX Administrator**

**Responsibilities:**

* Involved in development, user acceptance, and performance testing, production & disaster recovery server.
* Experience in responding to on call services regarding problems in network, work station, & capability of fixing them.
* Worked on implementation of network technologies such as installation and configuration of routed protocols.
* Designed bash and Perl scripts to automate application and system management activities.
* Able to handle System tuning, log maintenance and disk space management etc.
* Involved in writing shell scripts for automated installations to extract logs.
* Installed and configured UNIX tools.
* Installation, configuration, performance tuning, security, backup, recovery and upgrades of Linux/Unix environment.
* Played a role in adding servers to DNS record for back-end and front-end lookup.
* Wrote shell scripts for running jobs on servers.
* Troubleshooted issues with applications such as network, user hardware, naming services.
* Knowledgeable in Disaster Recovery plans for cold backup site.
* Documented software usage procedures, process of installation of operating systems.
* Worked on giving 24x7 production support for the team.

**Environment**: UNIX, Linux, Perl, Bash, port security, shell, DNS.

**Education:**

* Bachelor of Technology in Mechanical Engineering
* Jawaharlal Nehru Technological University, Andhra Pradesh, India

**Certification**:

AWS Certified Solutions Architect- Associate Level