**NAVEEN KUMAR**

**Sr. DEVOPS/AWS ENGINEER**

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***Professional Summary:***

* Over **8+ years** of experience in **DevOps Engineering/Build-Release, Linux/Unix Engineering,** SoftwareConfiguration andNetworkAdministrationin the areas of **Designing, Planning, Installing** and **Configuring Linux Flavors**, Windows Server under **DevOps** Culture.
* Good understanding of the principles and best practices of Software Configuration Management (**SCM**) in **Agile**, **Scrum**, and **Waterfall** methodologies.
* Worked with **VMware** tools like **vCenter** & vSphere to manage VM's running on **ESX** cluster nodes and also experience working with **vMotion**.
* Hands on experience in installing, deploying all **DevOps**, **CI**/**CD** tools like **Git**, **GitHub**, **GitLab**, **Chef**, **Jenkins**, **Maven**, **Ant**, **Puppet**, **Ansible, Terraform, Kubernetes, Dockers**, **Bamboo**.
* Performed **AWS** Network administration, instance monitoring, troubleshooting, deploying, optimization, root cause analysis and documentation.
* Worked on Amazon Web Services(**AWS**) components such as **EC2**, **ELB**, **VPC**, **S3**, **Cloud Front**, **IAM**, **RDS**, **Route 53**, **Cloud Watch**, **SNS**, etc.
* Experience working in a team environment using a Software Configuration Management (**SCM**), version control tools like **GIT, SVN, ClearCase, CVS.**
* Experience in developing **build.xml** in **Ant** and **pom.xml** in **Maven** to automate the compilation, deployment and testing of Web and **Java**/**J2EE** applications to the **UNIX**, **Windows** and **Linux** System.
* Experience with installing, Configuring and Maintaining of **Automation** tools like **Chef, Ansible, Puppet**.
* Extensively worked on **Jenkins**, **Hudson, Bamboo** for continuous integration(CI), pipeline and end-to-end automation for all build and deployments on **Linux** machines.
* Worked on various Docker components like **Docker Engine**, **Hub**, **Machine**, **Compose** and **Docker Registry.**
* Experience in working with **Kubernetes** to deploy scale, load balance and manage **Docker** containers with multiple name spaced versions.
* Experience in Installing, Configuring and Administering **Atlassian** Products like **Bamboo, BitBucket, Jira**, **Confluence**.
* Proficient in writing **Python, Ruby, Perl, Shell** Scriptsfor automation of daily tasks, middleware servers, **AWS** resources like **EC2, S3, VPC**, **Security** **Groups,** etc.
* Knowledge in Provisioning of **IAAS** & **PAAS** Virtual Machines and Web/Worker roles on **Microsoft** **Azure** Classic and Resource Manager and troubleshooting issues on **Azure** VMs.
* Experience in building and deploying **Java**/**J2EE, .Net** applications to a Web/Application server’s in an Agile, continuous integration environment and automated the whole process.
* Experienced in deploying Database Changes to **Oracle**, **MS** **SQL,** **MYSQL, PostgreSQL, MongoDB, Cassandra** databases.
* Experienced in developing and deploying applications on **Apache** servers, **JBoss**, **Apache Tomcat**, **NGINX Web Logic** and **IBM Web Sphere**.
* Knowledge of using Routed Protocols: **FTP**, **SFTP**, **SSH**, **HTTP**, **HTTPS** and Connect direct.
* Experienced in Managing, monitoring the server and network infrastructure using **Nagios**, **Jira**, **Splunk**, **ELK** (Elastic Search, Log stash, Kibana).
* Participated in all stages of software development life-cycle including architecture, design, implementation, and unit testing.
* Excellent communication, presentation, interpersonal and managerial skills.
* Good domain knowledge on Insurance, Banking, medical, biotechnology, Telecom domains.

***Technical Skills:***

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| --- | --- |
| **Operating Systems** | Windows, Unix, Linux(RHEL), Ubuntu, CentOS |
| **Programming Languages** | C/C++, JAVA/J2EE, .Net, Go |
| **Scripting Languages** | Shell, Powershell, Python, Ruby, Groovy |
| **CI/CD Tools** | Jenkins, Bamboo, ANT, Maven, Gradle, Docker |
| **SCM Tools** | GIT, Subversion(SVN), CVS, GitHub, GitLab |
| **Configuration Management(CM)** | Ansible, Chef, Puppet |
| **Cloud Computing Services** | Amazon AWS, Google Cloud, Microsoft Azure |
| **Databases** | Oracle, MySQL, MSSQL Server, PostgreSQL, MongoDB, Cassandra |
| **Monitoring Tools** | Nagios, Splunk, New Relic, AppDynamics, CloudWatch |
| **Web and Application Servers** | Apache, Nginx, Tomcat, JBoss, WebSphere, WebLogic |
| **Atlassian Suite** | Jira, Confluence, BitBucket, SourceTree |

***Professional Experience:***

**Client: Net Smart Technologies October 2016 - Present**

**Overland park, Kansas**

**Sr. DevOps Engineer**

Net Smart Technologies is one of the largest private Health Information Technology provider that develops and sells the Health Information Technology within the behavioral health care sector.

***Project Description:***

Designing processes/Provisioning infrastructure architecture for Net Smart Applications,

using AWS infrastructure as code for various environments. Cloud formation for entire

AWS Resources, VPC, EC2, EBS, S3, IAM roles.

***Roles and Responsibilities:***

* Implementing new projects builds framework using **Jenkins & Maven** as build framework tools.
* Implementing a **Continuous** **Delivery** framework using **Jenkins, Ansible, Bamboo, Maven** in **Linux** (core OS) environment.
* Experience in Create/build/modify **Ansible** playbooks including automation scripts with **Python** and **Powershell** scripting.
* As a DevOps Engineer, using **GITHUB**, **Maven**, **Jenkins**, **Ansible**, and, **JIRA** as tools for day-to-day **build** & **release** cycles for **SDLC**.
* Created post commit and pre-push hooks using **Python** in **SVN** and **GIT** repos. Setting up the SVN and **GIT** repos for Jenkins build jobs.
* Used **Ansible** playbooks to setup Continuous Delivery pipeline consisting of a **Jenkins** infrastructure to run these packages and various supporting software components such as **Maven**.
* Experienced in authoring **pom.xml files**, performing releases with the **Maven** release plugin, Mavenization of **Java** projects and managing **Maven** repositories, **CI**/**CD** process set up for dashboard.
* Wrote **python** and **Powershell** scripts to do all **CI/CD** using Jenkins and also to access the databases to retrieve and archive data.
* Rewrite existing Java application in **Python** module to deliver certain format of data.
* Designed, configured and deployed Amazon Web Services **AWS (EC2, S3, Cloud Front),** for a multitude of applications utilizing the **AWS** stack and developing the application in **Python** using Django MVC.
* Ansible, Jenkins to aid with our **Continuous** **deployment** and **Integration(CI/CD)** process, and migrating in‐house systems to **Amazon Cloud Services (AWS, RDS, Security Groups, S3).**
* **Deployed Docker** Engines and delivered with **Openshift** for web application deployment.
* Worked with UDA team to deploy scalable **Mesos** cluster in **AWS** with **Docker**.
* Worked with Amazon **AWS**/EC2, and Google's Docker based cluster management environment on .**Net** and **Java** applications.
* Presented on View Object pattern in **Web Application Automation**, **Python**, **Powershell**, Jenkins.

***Environment:*** GITHUB, Maven, Jenkins, Ansible, Docker, AWS, Perl, **Powershell**, Openshift, **Perl**, Python, Oracle, Mesos, Marathon, Java, WAR/JAR/EAR, Nagios, Jira.

**Client: Pay Pal August 2015 – September 2016**

**San Jose, California**

**DevOps Engineer**

Pay pal is one of the world’s largest Internet Payment Companies serving worldwide online payments systems that supports online money transfers and operates as a payment processor for online sites.

***Roles and Responsibilities:***

* Worked for DevOps Platform team in specialized areas related to Maven for build, design and maintain the platform and cloud automation infrastructure using **Puppet**
* Responsible for Installation, Configuration and Deployment of **VMware** products such as VMware **Workstation,** VMware **converter,** VMware **View, VCB** andmore in virtual environment.
* Developed installer scripts using **ANT**, **Python** and **UNIX** for various products to be hosted on Application Servers.
* Developed Puppet modules to install and **configure Apache**, GITHUB, **Tomcat**, **Splunk,** **Jenkins,** **WebLogic** and deployment automation and Integrated Jenkins, and Puppet.
* Worked on **Puppet** for infrastructure automation, manifest, **Python**, **Powershell** scripts and automated **CI**/**CD** infrastructure **Tomcat**, **JBoss** servers.
* Worked on configuring Puppet Master Servers, installing **Puppet** clients and bootstrapping clients with master server on Linux/Ubuntu servers and automated them using **Powershell** and **python** scripting.
* Experience in writing maven **pom.xml** and ant **build.xml** for build scripts.
* Implemented cloud services IAAS, PAAS, and SaaS which include Openstack, **Docker** and **Openshift**.
* Responsible for creating, managing **Docker** files for creating necessary base images used for

automation of build, deployment environments using AWS EC2 instances and S3.

* Integration of **Maven/Nexus**, **Jenkins**, Urban code Deploy with Patterns/Release, **Git**, Confluence, Jira and Cloud Foundry.
* Worked on re-architecture of private cloud edition based on Kubernetes & **Docker** containers for orchestration and scaling and built Docker files for the components and configured **Kubernetes** cluster.
* Administer, secure, and maintain multiple **Kubernetes** clusters to support a global service.
* Worked on **Kubernetes** and **Docker** images to provide platform as service on private and public cloud in AWS Cloud for **CI**/**CD**.
* Wrote **Python** scripts to do all **CI/Cd** tasks and parse XML documents and load the data in database.
* Strong experience writing API's/ and Web Services in **Powershell** and **Python**.
* Automated the cloud deployments using Puppet, **Python**/ **Powershell** and AWS Cloud Formation Templates.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using **Amazon** **EC2**, **Puppet**, and custom **Ruby/ Perl** scripts.
* Managed all the bugs and changes into a production environment using the **Jira** tracking tool.

***Environment:*** Linux, GIT, Puppet, Jenkins, Docker, ANT, Jira, Kubernetes, Openshift, Python, VMwares, **Powershell**, UNIX, apache, Tomcat, Maven, EC2, XML, Gradle, JBoss, Python.

**Client: Liberty Mutual Group November 2014 – June 2015**

**Boston, Massachusetts**

**DevOps Engineer**

Liberty Mutual Group is a Global insurer offering wide range of insurance products and services which conducts its business through four strategic business units: US Consumer Markets, Commercial Insurance, [Global Consumer Markets](https://en.wikipedia.org/w/index.php?title=Global_Consumer_Markets&action=edit&redlink=1), and Global Specialty.

***Roles and Responsibilities:***

* Implemented and developed solutions enabling Development and Operations teams to **build**, **deploy**,

monitor and test applications and environments.

* Worked with **Subversion**, Proposed and implemented branching strategy suitable for **agile/scrum**

development in a Fast-Paced Engineering Environment and later migrated to **GIT**.

* Involved in administrating **GIT** server and continuous Integration system like **Jenkins** and handled

escalations from developers across the globe.

* Implemented Continuous Integration(**CI**) and Continuous Deployment(**CD**) using **Jenkins** with **Maven** build tool.
* Utilized Configuration Management Tool **Chef** &amp; created **chef** cookbooks to automate system operations.
* Automated AWS infrastructure via **Chef**, **Docker**, and **Jenkins** and managed software and services

configuration via **Chef** cookbook development on **Docker** containers.

* Involved in designing and deploying a multi applications utilizing most of the **AWS** stack including **EC2**,

**VPC**, Security Groups, Route53, **S3**, **RDS**, **ELB**, **EBS**, **DynamoDB**, **IAM**.

* Automated the process of deployment to Apache Tomcat Application Servers by developing Python

Scripts.

* Defined dependencies and plugin in **Maven** pom.xml for various activities and integrated **Maven** with **GIT** to manage and deploy project related tags.
* Virtualized the servers using the **Dockers** for the test environments and dev-environment needs and

managed a Docker deployment pipeline for custom application images in the cloud using **Jenkins**.

* Implemented **AWS** solutions using **EC2**, **S3** and Elastic load balancer(**ELB**) and created Virtual Private

Clouds(**VPC**), subnets, route tables and security groups to control inbound and outbound traffic.

* Helped on building Java based REST **API** as a Microservice and deployed them using **Docker** containers and **kubernetes**.
* Configured **Nagios** to monitor **EC2** Linux instances with **Chef** automation and deployed Solarwinds for

network monitoring and analysis and later used **CloudWatch**.

* Managed the **AWS** cost cutting by writing the **Chef** cookbook to auto start/stop **AWS** resources at

Particular time of the day by triggering it from **Jenkins**.

* Automated Deployment of **Java** based applications into **Tomcat**, **WebLogic** servers using **Chef** and **Jenkins**.
* Responsible in deploying the application **WARs**, **EARs** in WebLogic application servers and resolved

deployment issues by troubleshooting.

* Built and Deployed **Java**/**J2EE** applications on **JBoss** application server in an **Agile** continuous integration

environment and automated the whole process.

* Created automation and deployment templates for relational and **NoSQL** databases including **MySQL** and Cassandra in **AWS**.

***Environment:*** AWS, Chef, Maven, GIT, Subversion, Jenkins, Dockers, Kubernetes, MySQL, Cassandra,

WebLogic, JBoss, Unix/Linux, Nagios, Java/J2EE, Python, Perl, Shell scripting.

**Client: Hewlett Packard (HP) July 2012 – October 2014**

**Palo Alto, California**

**DevOps Engineer**

HP is an American multinational information technology company headquartered in Palo Alto, California. It

develops and provides a wide variety of hardware components as well as software and related services.

***Roles and Responsibilities:***

* Maintained the Source Code Repository using **GITHUB** and performed different operations like Branching, Merging and Tagging as needed.
* Monitor the UAT/Production Environments for any down time issues by performing regular Cron job updates in servers.
* Setup **Jenkins** tool to integrate the **JAVA** project and maintained Jenkins with continuous integration and deployment.
* System administration, **Puppet** installation and configuration administration automated web sphere commerce installation and integrated with **Jenkins**.
* Worked on configuring **Puppet** Master Servers, installing **Puppet** clients and bootstrapping clients with master server on Linux servers.
* Coordinated with developers in establishing and applying appropriate branching, labeling/naming convention using **GIT** source control.
* Automated Weekly releases with **ANT/Maven** scripting for Compiling **Java** Code, Debugging and Placing Builds into **Maven** Repository.
* Involved in migrating a production infrastructure into an Amazon Web Services utilizing **AWS** Cloud formation, **U** **Code** **Deploy**, **Puppet**, EBS, and Ops Works.
* 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.
* Installed Workstation, Bootstrapped Nodes, wrote Modules and uploaded them to **Puppet** -server and managed AWS for EC2/S3 & **ELB**.
* **Bash/shell**-scripts to automate routine activities.
* Extracted the data from **MySQL**, **Oracle**, **SQL** Server using Sqoop and loaded data into Cassandra.
* Setup, configure and troubleshooting **TCP/IP**, DHCP, DNS, **NFS**, **SSH**, CIFS and SAMBA on Multiplatform.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.

***Environment:*** GitHub, Jenkins, Java, Puppet, AWS, ANT/Maven, MySQL, SQL, Oracle, Python, Bash/Shell, NFS, SSH, EC2.

**Client: Nielsen April 2011 – May 2012**

**New York City, NY**

**Build/Release Engineer**

Nielsen is a Global information, data and measurements company which gives the complete view of trends, habits worldwide and provides information about what consumers buy and watch.

***Roles and Responsibilities:***

* Performed software configuration/release management activities for different **JAVA** applications.
* Designed and implemented Continuous Integration process using tools like **Hudson** with approval from development and other affected teams.
* Defined processes to build and deliver software baselines for internal as well as external customers.
* Used **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on the source code.
* Converted old builds using **MAKE** to **ANT** and **XML** for doing **Java** build.
* Involved in Client interactions for business requirements and Enhanced features of development specifications using **Ruby** On Rails with **MySQL** database.
* Created and maintained built wrapper scripts using **PERL**.
* Maintained and executed build scripts by coordinating with development and **QA** teams.
* Responsible in doing build and deploying on different environments simultaneously.
* Deployed the **EAR** and **WAR** archives into **WebLogic** and **Apache Servers**.
* Configured and Maintained **Apache** **web servers** for Release Management Team's internal use.
* Created and Maintained Subversion repositories, branches and tags.
* Acted as an Integrator for performing merge, rebase and baseline operations.
* Enforced development policies using Subversion hooks and other metadata.
* Monitor progression of releases and keep them on track for delivery on planned release date.
* Submit request for implementation to various groups who participate in release.
* Assemble Release Kit and complete all paperwork, including implementation/back out plans.
* Served as production implementation coordinator, Communicate status of release to all stakeholders.
* Automated the process of creating Windows installers and signing the applications.
* Administered and Implemented automated builds.

***Environment:*** Java, Maven, Puppet, Ant, Hudson, WebLogic, Subversion, Electric cloud, Ruby & Perl scripting.

**Client: State of Utah May 2010 – March 2011**

**Salt Lake City, Utah**

**Unix/Linux Administrator**

***Roles and Responsibilities:***

* Maintained **LINUX, UNIX, Windows** pertinent processes as well as procedures.
* Installed/Configured/Managed/Administrated all **Unix**/**Linux** servers, includes the design and selection of relevant hardware to support the installation/upgrades of **Red Hat** (5/6/7), **Solaris** 8/9/10 operating systems.
* Conducted common, senior-level systems administration functions for different **Red Hat** Linux versions.
* Responsible for maintaining and monitoring all patch releases and design various patch installations, strategies and maintain all systems per NIST standardization.
* Responsible for configuring networking concepts like NFS, SSH, SFTP, SNMP, DNS, DHCP troubleshooting network problems such as TCP/IP, supporting users in solving their problems.
* Installation and deployment of a **Red** **Hat** Network Satellite Server 5.4.1.
* Proficient understanding of code versioning tools (**GIT**).
* Worked on **YUM** configuration to patch the servers to the latest **OS**/**Kernel** version.
* Experienced in working with **puppet**, centralizing and automating configuration management.
* Created, installed, WebLogic Application servers, deployed **WAR**, **JAR** files on them installed on both **Linux**, **Solaris** servers.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon **EC2**, and custom **Ruby**/**Bashscripts**
* Worked with development and **QA** groups for installation, configuration and testing of software products such as **Sybase**, **Oracle**, **WebLogic**, **WebSphere**, **Ascential**, **Tomcat**, **Apache**, **Subversion**, **Clearcase**, **Java**, **Eclipse**, **Perl**, **GPG**, and **PVM**.
* Worked on installing and configuring **VMware**/**ESX** Servers for virtualizations.
* Configured and maintained Network Multipathing in **Solaris** and **Linux**.

***Environment:*** UNIX/LINUX, Red Hat, Solaris, RAID, GIT, Shell, Ruby, Perl, Puppet, Oracle, VMware, Amazon EC2, Oracle, Java, Eclipse, AWS, Tomcat, Apache.

**Client: App Associates August 2008 – March 2010**

**Hyderabad, India**

**Unix/Linux Administrator**

Apps Associates is a global technology and business services organization that provides solutions for Cloud,

Analytics, and Integration. Its mission is to collaborate with customers to enable business improvement by

streamlining business processes using advanced technology.

***Project Description:***

Install, Configure, and Support all Linux servers in a 24/7 multi-tiered web service.

***Roles and Responsibilities:***

* Building, Installing, Configuring servers from scratch with OS of **RedHat** Linux.
* Performed **RedHat** Linux Kickstart installations on RedHat, performed RedHat Linux Kernel Tuning,

memory upgrades.

* Monitoring and service issue resolution of **LAMP** stack web servers, both shared and VPS.
* Storage Provisioning, Volume and File System Management using LVM, Veritas Volume Manager and

Veritas **File System** (Veritas Storage Foundation), Configuring ZFS file systems.

* Created Global and Regional Process workflow maps and design documents.
* Installed RedHat Linux using kick start and applying security polices for hardening the server based on company’s policies.
* Implementation of oracle RAC on HPUX blades and Itanium servers with RedHat Linux RHEL along with

SAN storage on EVAs.

* Setting up JBoss cluster and configuring apache with JBoss on RedHat Linux, Proxy serving with Apache,

troubleshooting **Apache** with **JBoss** and Mod\_jk troubleshooting for the clients.

* Installation and configuration of **Apache** **Webserver** in a LAMP stack.
* Monitoring connections and load of **Apache** server using mod\_status.
* Configuring DNS, DHCP, NIS, NFS and other Network Services in **IBM** Power Series.
* Troubleshoot **OS** issue using system message logs.
* Created Bash scripts to monitor processes and making sure process startup when operating system

restarts using chkconfig and RC startup levels.

***Environment:*** Red Hat Linux, Sun Enterprise Servers, Disk Suite, Veritas Volume Manager, LDAP, DNS, NIS,

SNMP, Bash scripting, Kick start, Apache, JBoss Sun and Veritas Clusters.

***Education:***

***University:***  Jawaharlal Nehru Technological University, India 2004-2008.

***Degree:*** Bachelors in Electronics and Communication Engineering.