**Pavan Kumar**

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**Summary:**

**7 years of experience Linux, AWS Cloud, DevOps, Build and Release Engineering in automation, Administration, deploying and release of code from one environment to another.**

**Professional Experience:**

**Aqua Indiana – Fort Wayne, IN (Aug 2015 – Present)**

**AWS/DevOps/Linux Engineer**

* Launching Amazon **EC2 Cloud Instances** using Amazon Web Services **(Linux/Centos/Ubuntu/RHEL)** and Configuring launched instances with respect to specific applications.
* Amazon Web Services (AWS) and cloud technologies to migrate over from their current datacenter and virtual environments.
* Experience in support instances running Fedora, Debian, Ubuntu, Centos and RedHat Linux.
* Experience in supporting RedHat Cluster and Oracle RAC environment running Oracle databases in High Availability.
* Experienced in automation of Linux using kick start on Physical and VMWare ESX VM's.
* Enabled Cloud Foundry support on **Azure** through open source collaboration which enabled millions in cloud spend.
* Designed and implemented Amazon Web Devops Services (AWS) cloud based instances for use on their current and upcoming projects.
* Amazon Web Services (AWS), EC2 Storage Managements integration and utilization within this infrastructure and applications.
* Worked in an **agile** development team Devops to deliver an end to end continuous integration/continuous delivery product in an open source environment using tools like puppet & Jenkins**.**
* Experience in Automating, Configuring and Deploying Instances on Azure environments and in Data centers.
* Mass Build of Linux OS servers using Kick start /jumpstart automation application.
* Developed automation and deployment utilities Devops using Ruby, Bash, Power shell, Python and Run deck.
* Experienced in providing day-to-day user administration like adding/deleting users in local and global groups on Red Hat Linux platform and managing user's queries
* Used Octopus to fit into teams that follow **agile** delivery practices.
* Implemented Azure Application Insights to store user activities and error logging
* Upgrading and integrating of JIRA, Confluence instances, all plugins, applications.
* We use **Terraform** to manage the Devops/AWS and other cloud infrastructure. Manage servers using configuration management products like CFEngine or Puppet.
* Managed ECS clusters using Cloud Formation templates, SNS, Auto scaling and cloud watch
* Repeatedly worked on **AWS Cloud** platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, S3,** **DynamoDB, ElastiCache, IAM, Cloud Formation, OpsWorks, Cloud Watch.**
* Installed application on AWS EC2 instances and configured the **storage on S3 buckets.**
* Worked on Database like **Cassandra, Hadoop, Redis, Riak, Spark, postgresql, MySQL**.
* Written **Chef Cookbooks** for various DB configurations to modularize & optimize product configuration.
* Branching, Tagging, Release Activities on Version Control Tools: **SVN**, **GitHub**.
* Implementation and administration of VMware ESXI 5.x, 6.0vCenter for running Red hat Linux, Servers on Production and Development.
* Experience in Installation, Configuration, Upgrade, Patches, and performance tuning on UNIX and system software & hardware
* Experience in using **GIT** and Rational Linux Clear case on **UNIX** and **Windows** **environment.**
* Maintaining the **Security** groups and setting up the rules for instances that are associated to the security groups.
* Experience in System Administration, System Builds, Server builds, Installs, Upgrades, Patches, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on UNIX Red Hat Linux Systems.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as IP tables, firewall.
* Worked on **RPM** and **YUM** package installations, patch and another server management.
* Application Deployments & Environment Linux configuration using **Chef, Saltstack** and **Ansible**.
* Deployed the **java** application into web application servers like **Apache,** **Tomcat**.
* Created file systems like **Ext3, ZFS, VxFS** using **Veritas** **Foundation** **Suite**, **SVM** and **LVM**.
* Written and implemented **Perl** **script** to modify **LDAP** **database**
* Experienced in deployment of applications on **Apache** **Webserver**, **Nginx** and Application Servers such as **Tomcat**, **JBoss**.
* Experience performing SAN provisioning to Linux and ESX servers from EMC SAN arrays VNX and Clarions.
* Integrate JIRA projects with Confluence Pages and construct Confluence pages.
* Setting up **Jenkins, CircleCI** **Continuous** **Integration** (CI) and **Deployment** builds for all releases on **windows** and **Linux Debian**.
* Created scripts in **Python** which integrated with Amazon **API** to control instance operations.
* Virtualized the servers using the Docker for the test environments and dev-environments needs. And, configuration automation using **Docker containers,** **mesos, marathon** and **microservices.**
* Worked with various scripting languages like **Shell, Ruby, PHP, Behat, Codeception** and **Python**

**United Health Group, San Jose CA (Dec 2012– Jul 2015)**

**Linux/DevOps Engineer**

* Managing **Amazon** **Web** **Services** (AWS) infrastructure with automation and configuration management tools such as **Puppet** or **custom-built**.
* **Drupa**l is a scalable and secure platform upon which we use to build their web service ecosystem.
* Creating and managing file systems, Creating and managing Logical volumes in Linux and VERITAS Volume manager in Solaris & Linux & IBM AIX.
* Implementing a Continuous Delivery framework using Jenkins, Chef, Maven & Nexus in Linux environment.
* Analyze and resolve conflicts related to merging of source code for **GIT**, **TeamCity.**
* Planned, designed, and implemented a project to provide network **security** stack providing visibility, redundancy, and consistency for all applications hosted in the cloud.
* Setting up Jenkins, CircleCI **Continuous Integration (CI) and Deployment** builds for all releases on windows and Linux Debian.
* Extremely worked on Hudson, Jenkins for continuous integration and for end to end automation for all build and deployments
* Extensively worked on Apache http Server, Apache Tomcat Server as administrator for Server Installations, Configuration, Application components deployment, performance tuning including troubleshooting and maintenance.
* Performing software installation, upgrades/patches/packages, troubleshooting, and maintenance on UNIX &Linux Servers.
* Experience with VMware VSphere6.0, 5.5 and 5, VMware Venter 5.5, Vcenter5, Venter 4.1.
* Setup, tune, scale ELKK (Elastic Logstash Kafka & Kibana) stack for transactional logging with cross data center replication
* On the other hand, also achieved building of .net application by integrating Visual Studio with Jenkins.
* Azure Cloud and On-premise network for backend communication.
* Installed **Jenkins**/**Plugins** for **GIT** **Repository**, Setup **SCM** Polling for Immediate Build with **Maven** and **Maven** **Repository** (Nexus Artifactory) and Deployed Apps using custom **ruby** modules through **Puppet**.
* Installed/Configured/Managed **Puppet** master. Wrote **DevOps** custom Modules and Manifests, downloaded pre-written modules from **puppet-forge**. Upgradation or Migration of **Puppet** Community and Enterprise.
* Worked with container based deployments using Docker, with Docker images and have a good knowledge on Vagrant.
* Creation of Volumes and file systems on SAN disks using Redhat LVM and VERITAS Volume Manager
* Expertise in configuration and managing Linux Virtual Machines under VMware
* Conduct network vulnerability assessments using tools to evaluate attack vectors, identify system vulnerabilities and develop remediation plans and **security** procedures.
* Knowledge of Logging and APM **DevOps** tools **AppDynamics, Zabbix, Splunk, ELK** and **Grafana.**
* Developed and supported Devops the **Red** **Hat** **Enterprise** **Linux Debian** based infrastructure in the cloud environment.
* Create and maintain VMS in Windows Azure using Azure Express Route
* Developed **Python**, **Shell** **Scripts, Bamboo, Octopus,** and **PowerShell** for automation purpose.
* Firm grasp of managing various filesystem using **Logical Volume Manager (LVM)**, **Veritas Volume Manager (VxVM)**, **Veritas File System (VFS)** and **Solaris Volume Manager (SVM)**.
* Proficient in installation and configuration of various **Packages** and **Patches** in **Linux Debian** utilizing **Red Hat Satellite Server.**
* Implemented multi-tier application Devops provisioning in **Amazon** **cloud** **Services**, integrating it with **Puppet**.
* Improved scalability by storing socket buffers on Redis and maintaining sessions by MongoDB.
* Expertise in managing Virtual Linux servers running on VMWare ESX 4/5.
* Actively involved in Change board meetings and responsible for creating changes and implementing them mainly in Production environment.
* Currently working on build activities which involves building RedHat Enterprise Linux 6 (and 7) servers in both Physical and Virtual platforms and procedure documentation.
* Created scripts in **Python** which integrated with Amazon **API** to control instance operations.
* Exposed to all aspects of **Software Development Life Cycle (SDLC)** such as Analysis, Planning, Developing, Devops Testing and implementing and Post-production analysis of the projects with **Agile Scrum, Waterfall and V model.**
* Created JIRA support requests project for daily support tickets from users across different teams in the organization.
* Installed and configured **SysDig, Data Dog, AppDynamics, New Relic, Nagios, Zabbix** **monitoring tool**, while using it for monitoring network services and host resources.
* Implemented automated local user provisioning Devops in instances created in **Amazon cloud Services**.
* Used Puppet to manage **Web Applications, Config files, Devops Database, Commands, Users Mount Points, and Packages.**
* Installed and configured **Nagios monitoring tool**, while using it for monitoring network services and host resources.

**Department of Labor, WA (Jan2012-Nov 2012)**

**Unix/****Linux Systems Admin**

* Build, Install and upgrade packages and patches on RHEL, CentOS and Ubuntu servers using RPM, YUM, APT and third-party software applications.
* Conducted pre-consolidation tasks, which included Health Checks, validations and data collection of the servers.
* Installed and upgraded packages and patches on RHEL servers using RPM, YUM and third-party software applications.
* Installation of Database servers and user’s management such as Oracle, MYSQL, SQL Server.
* Implementation and maintenance of DHCP, NFS, NIS, DNS Mailing List, Send mail, FTP and Apache SMTP.
* Application installation and troubleshooting for Solaris, Red Hat Linux and CentOS.
* Hands on experience in creating Volumes, LUNS for Unix machines.
* Installed RHEL 5.x using Kick-start server on standalone servers and VMware environments.
* Provided solutions to the client about Disk mirroring and RAID implementation using Solstice Disk Suite and VERITAS volume manager and cluster.
* Responsible for patching Linux servers.
* Setup and managed environment using puppet configuration management tools.
* Administered Linux Servers Linux (Red hat – RHEL 3/4/5) for several functions including managing Apache/Tomcat server, mail server, My Sql database and firewalls in both development and production.
* Installation and configuration of Red Hat Device Multipathing.
* Captured the image of production server, configuring RAID and build the new server using the image on system image server with PXE boot.
* Experienced in installation and configuration of Web Sphere application server’s V 3.5/4.0/5.x/6.x, IBM HTTP Server on AIX, Solaris and Linux platforms
* Managing VM’s and ESXi hosts by using vSphere Client, Putty and Web Access and installing the VMware Tools on the VM’s.
* Worked on servers configured with EMC Clariion, EMC Symmetrix, EMC Celera, EMC VMAX storage

**RMSI, India (Oct 2010-Dec 2011)**

**Unix/Linux Administrator**

**Responsibilities:**

* Installation, Maintenance, Administration and troubleshooting of **Linux, windows servers**
* Responsible for Installation, **Configuration Management**, Maintenance and Systems Development of Red Hat Linux, Oracle Enterprise Linux / UNIX Systems.
* Management of **Red Hat Linux**user accounts, groups, directories and file permissions.
* Performed automated Linux installations of Operating System using **kick start for Linux Debian.**
* Installing and configuring services such as **Apache, DNS, SMTP, HTTPD, NTP, DHCP** and supporting them on Linux production servers.
* Hands on experienced with **SOAP, REST**
* Performing **RPM** and **YUM** package installations, patch and another server management
* Participate in performance walkthroughs and reviews
* Troubleshooting Linux network, security related issues, capturing packets using tools such as IP tables
* Extensively worked on **LVM** and **extended the logical volumes.**
* Maintained all the Red hat servers Linux entitled with the latest subscriptions
* Perform error analysis and recovery, documentation and procedures required for reference
* Log all scheduled/unscheduled system activities and problems
* Monitored the systems CPU, memory, IDE/SCSI disks, disk controllers, RAID, and network parameters using the tools **NAGIOS monitoring** **system**.
* Worked on high availability Linux servers - **load** **balancing** and **clustering**
* Worked with Virtualization software (**Xen**)
* Worked with **Network Attached Storage devices** and **RAID technology**
* Worked with **NetBackup**.