**PRIYANKA REDDY**

**Sr. DevOps/Cloud Engineer**

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**PROFESSIONAL SUMMARY**

* Over **8 years** of comprehensive experience in the areas of **DevOps**, **AWS Cloud, Build/Release Management** and **Linux/Windows Administration**.
* Highly motivated and committed **DevOps** Engineer experienced in Automating, configuring and deploying instances on **AWS**, **Microsoft Azure** and **Rackspace** cloud environments and Data centers.
* Build and configure a virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (**VPC**), Public and PrivateSubnets, SecurityGroups, RouteTables, ElasticLoadBalancer(**ELB**).
* Transfer data from Datacenters to cloud using **AWS** Import/Export **Snowball** service.
* Automate deployment for SaaS based application on cloud using Chef Enterprise, **Pivotal Cloud Foundry and AWS.**
* Manage Amazon **Redshift** clusters such as launching the cluster and specifying the node type as well.
* Setup and build **AWS** infrastructure using various resources, **VPC EC2, RDB, S3, IAM, EBS**, **Security Group, Auto Scaling, SES, SNS** and **RDS** in Cloud Formation **JSON** templates, **Route53, Lambda.**
* Worked on **AWS** for deploying **EC2** instances consisting of various flavours viz., **Oracle Linux, RHEL, CentOS, Ubuntu and Solaris** in both Linux and Windows.
* Created and deployed VMs on the Microsoft cloud service **Azure**, managed the virtual networks, **Azure AD** and **SQL**.
* Experience in development and deployment of applications using **JBoss, IBM WebSphere** Application and **Apache Tomcat.**
* Knowledge in **Terraform** as infrastructure providers, build images using Packer.
* Developed Packer and **Terraform** workflows for quick infrastructure design and deployment
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2**instances, Auto-Scaling, Elastic Load Balance(**ELB**) and **AMI**s and Glacier for **QA** and **UAT** environments as well as infrastructure servers for **GIT** and **Chef**.
* Designed and implemented for fully implemented server build management, monitoring and deployment by using **chef.**
* Used AWS Beanstalk for deploying and scaling web applications and services developed with **Java, PHP, Node.js, Python, Ruby**, **Shell/Bash**, **Perl** and **Docker** on familiar servers like Apache.
* Involved in development of test environment on **Docker** containers and configuring the **Docker** containers using **Kubernetes.**
* Created and updated **puppet** **manifests and modules**, files and packages stored in **GIT** repository. Responsible for implementing **Puppet** for applications deployment.
* Experienced in branching, tagging and maintaining the version across the environments using **SCM tools like GIT, Subversion (SVN) and TFS on Linux and windows platforms.**
* Developed **Playbooks** using **Ansible** to deploy consistent infrastructure code across multiple environments.
* Installed **Jenkins/Plugins** for **GIT** repository, setup **SCM** polling for immediate build with **maven** and maven repository (Nexus Artifact) and deployed apps using custom Ruby modules through puppet as a **CI/CD** process.
* Worked on monitoring tools such as **Nagios, Splunk, ELK Stack** (Elasticsearch, Logstash, Kibana), **CloudWatch.**
* Experience in Installing, configuring Cloud Foundry Ops Manager, App Manager, Etc.
* Configuring and installing **VMware** Virtual Center servers and **VMware Vcenter** Appliance.   
  Managed **VMware** **ESXi** hosts using **vSphere** client and Web client. Created and deployed **LVM**, resized the logical volume and volume group.
* Monitoring the servers using tools like **BMC** and **Nagios** and providing 24x7 on call support rotation basis.
* Experience on complete software development life cycle (**SDLC**) with software development models like **Agile, Scrum Model, JIRA, Waterfall** **model.**
* Expertise in Installing and Managing **LDAP, NIS, NIS+, NFS, DHCP, SAMBA, DNS** etc. Knowledge of using Routed Protocols like **FTP, SFTP, SSH, HTTP, HTTPS** and Direct connect.

**TECHNICAL SKILLS:**

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| --- | --- |
| Operating system | Linux (RHEL (Red Hat 4/5/6/7), CENTOS & SUSE), Solaris 11/10/9/8, HP-UX 11.0, 11.11, 11.23, 11.31, HPUX11i V1, V2 & V3, Ubuntu 12/13/14, Windows NT /2000/2003, DEBIAN. |
| Application Servers | WebLogic Application server 9.x, 10.x, Apache Tomcat 5.x/7.x, Red Hat JBoss 4.22. GA Web Sphere 6.x/7.x/8.x |
| Automation Tools | Jenkins, chef, Puppet, Ansible, Docker, Vagrant, Terraform, Kickstart |
| Version control tools | GIT, Subversion (SVN), Bitbucket, GitHub |
| Web servers | Tomcat, APACHE 2.x, 3.x, JBOSS 4.x/5.x, Web Logic (8/9/10), Web Sphere4.0/5.0, Ngnix |
| Networking/Protocol | DNS, DHCP, CISCO Routers/Switches, Palo alto, WAN, TCP/IP, NIS, NFS, SMTP, LAN, FTP/TFTP, Juniper, Cisco |
| Scripting | Perl, Python, Bourne, NodeJ, Bash shell, Power shell scripting |
| Virtualization Technologies | VMWare ESXi, Windows Hyper-V, Power VM, Virtual box, Citrix, Xen |
| Cloud Environments | AWS, Amazon EC2 & S3, Azure, Rackspace, OpenStack |
| Databases | RDBMS, NoSQL, MySQL, DB2, PostgreSQL, MongoDB, Cassandra DB |
| Volume manager | VERITAS volume manager, LVM with Linux |
| Bug Tracking Tools | Bitbucket, JIRA, Confluence |
| Monitoring Tools | Nagios, CloudWatch |

**EDUCATION:**

Bachelor degree in Computer Science at Jawaharlal Nehru Technological University

Masters in Computer Science at University of Mississippi

**PROFESSIONAL EXPERIENCE:**

**Apple Inc., Cupertino, CA April 2020 - Present**

**Role: Sr. DevOps/AWS Engineer**

**Responsibilities:**

* Worked on **AWS EC2** Instances creation, setting up **AWS VPC**, launching **AWS EC2** instances different kind of private and public subnets based on the requirements for each of the applications
* Worked on **AWS** Auto Scaling for providing high availability of applications and **EC2** instances based on the load of applications by using **AWS CloudWatch**.
* Managed AWS infrastructure provisioning **(S3, ELB, EC2, RDS, Route 53, IAM, security groups - CIDR's, VPC, NAT)** and deployment and **EC2** Installs with **CentOS, Ubuntu and** **RHEL 6**.
* Expertise in Amazon AWS Cloud Administration which includes services: **EC2, CloudWatch, S3, EBS, VPC, RDS, ELB, Route 53, SNS, SQS, Lambda, DynamoDB, Auto Scaling, Security Groups, ECS, Kinesis, RedShift and CloudFormation**
* Designed and deployed AWS solutions using **EC2, S3, RDS, EBS**, Elastic load Balancer(**ELB**), Auto-scaling groups, **Opsworks**.
* Copying the **EBS** volumes to different account as image file over the network due to the enterprise restrictions on the **KMS** encryption keys sharing.
* Developed **Terraform** templates to create load balancers (**ELB**), **EC2** instances with auto scaling, monitoring on the fly for different environments such as **QA, SIT**, stage which will run on different **VPCs**.
* Migrated an On-premises virtual machine to **Azure** Resource Manager Subscription
* Hands on experience in **Azure** cloud services, **Azure** storage, **Azure** active directory, **Azure** Service Bus. Create and manage **Azure AD** tenants and configure application integration with **Azure AD**.
* Web application development using **Agile** methodology using **Ruby** on Rails, **MongoDB**.
* Installing, configuring and managing the **RDBMS** and **NoSQL** tools like **MySQL, DB2, PostgreSQL** and **MongoDB**, **DynamoDB and CassandraDB**.
* Using **Ansible** as a configuration management tool, to automate repetitive tasks, deploy applications and manage changes and automate software update and Verify functionality, and to take **backups** from the **Databases.**
* Set up **Jenkins** server and build jobs to provide continuous automated builds based on polling the **Git** source control system during the day and periodic scheduled build overnight to support development needs using **Jenkins, Selenium and Maven.**
* Performed Continuous Integrated delivery (**CI and CD** process) using **Jenkins** and **Udeploy**
* Supported and deployed to web application servers such as **WebLogic, JBOSS, Apache Tomcat**, and **Apache HTTPD** servers.
* Configured and maintained Hudson to implement the **CI** process and integrated the tool with **Ant, Maven and Gradle** to schedule the builds took the sole responsibility to maintain **CI** **Jenkins**/**Hudson** server.
* Built and Deployed **Java/J2EE** to a WEB application server in an **Agile** continuous integration environment and automated the whole process.
* Utilized **Perl** and **Python** for **GIT, Subversion (SVN), Bitbucket.**
* Tested Splunk search strings & operational strings and used it as resource monitoring tool.
* Worked with administrators to ensure **Splunk** is actively and accurately running and monitoring on the current infrastructure implementation.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes Linux, Bash, GIT**, **Docker, on GCP**.
* Worked with **OpenShift** platform in managing **Docker** containers and **Kubernetes** Clusters.
* Utilized **Kubernetes** for the runtime environment of the **CI/CD** system to build, test deploy.
* Used **JIRA** for all our projects in scrum methodology for creating stories and giving points to the stories, and updated stories as per our sprints.
* Worked on infrastructure with **Docker** containerization and maintained **Docker** Images and containers.
* Managed Docker orchestration using **Docker Swarm.**
* Migrated data from Heterogeneous Data Sources and legacy system (**DB2, Access, Excel**) to **SQL** Server databases using **SQL** Server Integration Services (**SSIS**) to overcome transformation constraints.
* Created and wrote shell scripts (**Bash), Ruby, Perl, Python and Power shell,** **JavaScript** and **XML** for automating tasks.
* Experience with system analysis, **troubleshooting** and performance tuning of operating systems.
* Configured network services like **DNS, DHCP, IPv4, IPv6, IPsec, VPN**, **TCP/IP** etc.

**Environment:** *AWS, Chef, SVN, Jenkins, Docker, WebLogic, JIRA, Oracle, Shell, Perl, Python, Ant, Maven, Udeploy, Ansible, Apache Tomcat, Java, Linux, Terraform, Splunk, Redshift, Kubernetes, JBoss, OpenShift.*

**Cisco Systems Inc., San Jose, CA July 2017 - April 2020**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

* Launching EC2 instances and involved in **AWS RDS, S3, Load Balancing, IAM, VPC, Cloud Formation, Lambda, Cloud Watch.**
* Used **AWS Route53**, to route the traffic between different availability zones. Deployed and supported Mem-cache/AWS Elastic-Cache and then Configured Elastic Load Balancing (**ELB**) for routing traffic between zones.
* Spinning up **AWS** resources by using **Terraform**.
* Defined AWS **Security Groups** which acted as virtual firewalls that controlled the traffic allowed to reach one or more **AWS EC2** instances.
* Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer(**ELB**) and **AMI**s, Auto-scaling to design cost effective, fault tolerant and highly available systems.
* Implementation of cloud services **IAAS, PAAS**, and **SaaS** which include **Openstack**, **Docker** and **OpenShift**.
* Worked on **NoSQL database DynamoDB** to process large data documents.
* Developing **Docker** images to support Development and Testing Teams and their pipelines; distributed **Jenkins**, **Selenium** and **JMeter** images, and ElasticSearch, Kibana and Logstash (**ELK & EFK**) etc.
* Worked on the Docker ecosystem with a bunch of opensource tool like **Docker machine, Docker Compose, Docker Swarm**.
* Wrote **SQL** queries and worked on administration.
* Installed and administered **Docker** and worked with **Docker** for convenient environment setup for development and testing.
* Used the **JIRA**, **Confluence** for bug tracking, creating the dashboard for issues.
* Wrote **Docker images** for **Bamboo, Nexus** and various.
* Designed and Developed **Bamboo** Builds deployments on **Docker** containers.
* Installed **Docker** Registry for local upload and download of **Docker** images and even from **Docker** hub.
* Carried Deployments and builds on various environments using continuous integration(**CI**) tool **Jenkins**.
* Designed the project workflows/pipelines using **Jenkins** as **CI** tool.
* Used **Jenkins** to perform automated Builds and Deployments.
* Wrote **Chef Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Wrote multiple **cookbooks in Chef** and implemented environments, roles and Data Bags in **Chef** for better environment management.
* Implemented **Chef Knife** and **Cookbooks** by **Ruby** scripts for Deployment on internal Data Centre Server and reused same **Chef Recipes** to create a Deployment directly into **EC2** instances.
* Implemented **Puppet hiera** to separate data from puppet code.
* Responsible for deploying **SSL Certs** **across AWS ELB and CloudFront**.
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage **Java** applications across **Linux** servers.
* Template creation in JSON format for **CloudFormation to create/modify multiple Stacks.**
* Analyze and resolve conflicts related to merging of source code for **GIT, Subversion (SVN)**/**Bitbucket**.
* Deployed Puppet for configuration management to existing infrastructure.
* Worked on authoring **pom.xml** files, performing releases with the **Maven** release plugin, and managing artifacts in **maven** internal repository.
* Wrote new plugins in **Nagios** to monitor resources.
* Monitored Application and Servers through **Nagios**, Web Servers Administration on **Apache** and **Nginx**.
* Involved working with a **PaaS** solution such as **RedHat Openshift**.
* Worked with VMWare tools like **vCenter** & **vSphere** to manage VM's running on ESX cluster nodes and experience working **vMotion.**
* Worked on implementation team to build and engineer servers on **Ubuntu** and **RHEL** Linux. Provisioning virtual servers on **VMware** and **ESX** servers using **vCloud.**
* Managed and Architected virtual servers.
* Created and wrote shell scripts (**Bash), Ruby, Perl, Python and Power shell,** **JavaScript** and **XML** for automating tasks.

**Environment:** *AWS****,*** *OpenStack,**Docker, Jenkins, VMware, vCenter, vSphere and vMotion, RHEL, Satellite, OpenShift, Kubernetes, Artifactory, GitHub, SVN, Nagios, Ruby, Python, PowerShell, Ubuntu, CloudFormation, Bamboo, Apache, Terraform.*

**University of Southern Mississippi, MS Jan 2016 - May 2017**

**Role: Linux System Administrator**

**Responsibilities:**

* Interacting with 300 users on site and more remotely via **email/phone/ticketing** systems for their computing needs.
* Developed, customized and build **RPM/YUM** on Linux for deployment on various servers through software Development Life Cycle (**SDLC**)
* Server IP changes, patch management, performance tuning, **NFS, SFTP, SAN, NAS** storage handling.
* Setting up and configuring **NFS, NIS, DNS**, and **PXE** bootstrap with **kickstart.**
* Used **Rpm and Yum** for patch management and resolving kernel panic issues after patching.
* Setting up different **Raid Levels** on HP and Dell servers.
* Installed, configured, Administered and supported **WebSphere** Application Servers 6.0/6.1 on **Windows and Linux** environment using GUI as well as silent install
* Performing **NIC** bonding on **Linux**Systems for redundancy.
* Creating **VM** guest hosts, cloning, creating templates and moving machines with vMotion.
* Responsible for building and monitoring over 200 physical and virtual machines.
* **Troubleshooting** user **SSH** and user authentication. Configuring **OpenSSL.**
* Updating **kernel** parameters.
* Writing **shell**/**Bash** scripts for Automated Back- ups and **Cron Jobs**.
* Installed and configured **Apache Webservers** and troubleshoot problems arising from **Apache functionality.**
* Creating, extending and reducing **LVM's.**
* Overseeing migrations from physical to virtual.
* Used **Maven** (POM.xml) and **Ant** scripts (build.xml) as build frameworks/scripts.
* Expertise in Administrating **Red Hat** - Linux backup & restore with star, tar and including formatting disk & partitioning.
* Maintaining **RHEL** servers along with **Security/GIS kernel patching**, using Blade-Logic Automation.
* **Kickstart** servers based off **RHEL 6.x / 7.x** in production, development and testing environments.

**Environment:** *RHEL, Windows, Shell Script, VMware servers, WebSphere, Windows 2003 server, Kickstart, Solaris, OpenSSL, LVM, SSH, Linux, Maven/Ant.*

**Crystallite Technologies Pvt. Ltd, India 2013 - Dec 2015**

**Role: Linux Administrator**

**Responsibilities:**

* Created and maintained user accounts in RedHat Enterprise Linux (**RHEL**)and other operating systems
* Troubleshooting and maintaining of **TCP/IP, Apache HTTP/HTTPS, SMTP** and **DNS** applications.
* Configuration of **NIS, DNS, NFS, SAMBA, SENDMAIL, LDAP**, **TCP/IP**, Send Mail, **FTP**, Remote access **Apache Services** on **Linux** & **Unix** Environment.
* Migrated different projects from **Perforce to SVN**
* Performing **NIC** bonding on Linux Systems for redundancy.
* Diagnosed and resolved problems associated with **DNS, DHCP, VPN, NFS, and Apache.**
* Created **Bash/shell** scripts to monitor system resources and system maintenance.
* Create and Update Documentation for current **Patching process**. Coordinate with Lines of Business to schedule **patching**. Create Change request for Patching in Production environment.
* Booted systems into different run levels for **troubleshooting** and system maintenance.
* Network troubleshooting using **ndd**, **traceroute**, **netstat, ifconfig**, and snoop etc.
* Expertise in Logical Volume Manager (**LVM**), Configured volume groups and logical volumes, extended logical volumes for file system growth needs using **LVM** commands.
* Creation of Logical volumes (**LVM**) for Linux operating systems.
* Responsible for the basic administration tasks related to **LDAP** and **WebSphere** Portal.
* Hands on experience in building servers and automating the provision of OS by using **Kickstart** for **RedHat** and **Jumpstart for Solaris**.
* Experienced in Server builds and automating the provision of OS by using Jumpstart for **Solaris** and **Kickstart** for **RedHat(RHEL)**.
* Installed and configured servers using **RedHat Linux Kickstart** method.
* Created **Linux** Virtual Machines using **VMware Virtual Center**, creating **VM** Templates, and **troubleshooting** all **Virtualization** related issues.
* Expertise in remote access and application virtualization technologies such as **XEN, VMware, ESX, ESXi on Linux**.
* Coordinating with 24 x 7 on-call support personnel in debugging.

**Environment:** *RHEL, Windows, Shell Script, VMware servers, XEN, ESX, ESXi, WebSphere, SVN, Windows 2003 server, Kick Start, Solaris.*