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**Srinivas Reddy. R**

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**Cloud Infrastructure Engineer/ Devops Engineer/ Build and Release Engineer**

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| **PROFESSIONAL SUMMARY:** |

* Around 7+ years of IT experience as a **Cloud Infrastructure Engineer (AWS, Azure), Redhat OpenShift, Unix/Linux System Administration (RHEL, CentOS, Fedora, Ubuntu), Build** and **Release Management, DevOps Engineer, Virtualization(VMware), CI (Continuous Integration), CD (Continuous Delivery)** with good expertise in Building, Automating, Managing and Releasing codes in different environments.
* Experience in designing, building and deploying in a multitude application utilizing almost all the **AWS** services like **EC2, S3, Elastic Beanstalk, Elastic Load Balancing (Classic/Application), Auto Scaling, RDS, VPC, Route53, Cloud Watch, IAM, Lambda, Code commit, Code deploy, focusing** on **high-availability, fault tolerance**, and **auto-scaling** with **Cloud watch monitoring.**
* Experience in various **Azure** services like Compute **(Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, PowerShell Automation**.
* Good knowledge in **Continuous Integration (CI)** and **Continuous Deployment (CD)** methodologies.
* Expertise in automating various build and deployments by using **ANT, MAVEN, Perl, Ruby, MS Build,** and **Shell Scripts**, **Jenkins.**
* Experience in branching, tagging and maintaining the version control and source code management tools like **GIT, SVN (**subversion**)** on **Linux**.
* Experience on BEA **WebLogic 8.x, 9.x, 10.x,11 Server, Apache http Server, Apache Tomcat Server** asadministratorforServer Installations, Configuration, Application components deployment, performance tuning including troubleshooting and maintenance.
* Developed an opensource project with **Kubernetes** to manage a **cluster** of **containers**, running **Docker** **containers** across multiple hosts.
* Expertise in **Ansible Playbook, Yaml** for maintaining roles, inventory files and groups variables and extensively worked on **Jenkins** and **Hudson**.
* Experience in Installing **Chef** Server enterprise **on-premise/workstation/bootstrapped** the **nodes** using **knife** andautomated by testing **Chef Recipes/Cookbooks** with **Test-kitchen**.
* Deployed servers using **Puppet**, and **Puppet DB** for configuration management to existing infrastructure and Implemented **Puppet 3.8** manifests and Modules to deploy the builds for Dev, QA and production.
* Experience in Installation, Configuration and Troubleshooting **VMware ESX & ESXi 4.x/ 5.x/ 6.x.** and managedthe **virtual machines,** installed **VMware Tools, Templates, Cloning** and **deployed Virtual machines.**
* Installing and Configuring **Red Hat Linux** locally or over the **Network-Kick Start- (NFS, FTP, HTTP), PXE Booting** and **bootstrapping.**
* Expertise in implementation and maintenance of **Apache Http, SMTP, DHCP, NFS, NIS, NIS+, LDAP, DNS, SAMBA, SQUID, Postfix, send mail, FTP, remote access, security management security** troubleshootingskills**.** Deep understanding ofProtocolslike **HTTP, DHCP, DNS, SSL/TLS.**
* Experience in **F5 Load Balancers** for creation ofVIP and configured load balancing policies for the load balanced members.
* Experience in creation **of BIG IP F5 Load balancer to provide high scalability, availability and reliability.**
* Expertise in performance resource monitoring tools with **Splunk**, **Nagios core** and **XI**, tuned with the services like **ssh, disk space, check memory, ftp.**
* Understanding with the standards and great practices in **Software Configuration Management (SCM)** in **Agile**, **Scrum** and **Waterfall methodologies**.
* Expertise in **scripting** for automation, and monitoring using **Shell, PHP, Python, Ruby & Perl scripts**
* Excellent Knowledge in workflow of **JIRA / Service now BMC Remedy**, and Working with **Agile SDLC** under these tools.

**TECHNICAL SKILLS:**

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| **Operating System** | RHEL 5.x/6.x/7.x, Centos 5.x/6.x/7.x, Windows server 2003/2008/2012,2016, Centos, Debian and Ubuntu |
| **Services** | FTP, YUM, SSH, TELNET, NFS, RPM, SFTP |
| **Virtualization** | VMware, Vcenter and VSphere |
| **Networking** | DNS, TCP/IP, LAN, SAN, WAN, NAS, F5, NIS, SMTP |
| **Programming Languages** | Bash, Shell Scripting, Perl, Ruby and Python |
| **Web/App Servers** | WebSphere Application Server 7.x/8.x, JBOSS. |
| **Tools** | Ansible, Chef, Puppet, Splunk, Nagios Core, Nagios XI, Jenkins/Hudson Ant, Maven, Gradle, Datacenter Team Foundation Server (TFS). |
| **Database** | ADF(v1 &v2),SQL Server 2008/2012/2014, MySQL, DB2, Oracle, PostgreSQL, MongoDB and Cassandra. |

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| **Education:**  Bachelors of Technology in Electronics and Communication Engineering from JNTU, Hyderabad, India |

**PROFESSIONAL EXPERIENCE:**

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| Client: iptiQ by SwissRe, Armonk, New York February 2018 – Till Date |
| Role: Azure DevOps Cloud Engineer |

* Provisioning **IAAC** on **Azure** cloud through automated scripts using **ARM** templates, **Power shell ISE** and **Azure CLI.**
* Worked on **ARM templates** and **deploying** from **Azure DevOps** to create different azure resources like **CosmosB (Collections and Databases), Microservices, AKS Cluster (Nodes and Pods**), **virtual network, subnets (public & Private), Route Tables, Load Balancer, NSG rules, Virtual Machines, Application insights, App services, SQL DB, Key Vaults, Storages , Metrics and Log Analytic Alerts.**
* Configured **SMARTS** for **AKS Engine rules** for business logics rules and configured **RabbitMq** for message **Queues** for Vendor and partner communications**.**
* Provisioned **Azure SQL server, Elastic Pool, Azure SQL DB, Azure Data Factory (v1 & v2), Data lake store, Blob and Storage account through ARM template** as **IAAC.**
* Automated **Azure** virtual machines OS hardening and patch management with **Ansible** and **Azure Automation** account.
* Managed **SP -Service principal** id', SQl tech users, Linux users, app registrations in **Azure Key Vaults**.
* Configured **ADF** **v1** and **v2** for copy activities like cosmos dB collections, file transfer, ETL process, Created alerts and automation schedulers for daily copy activity to run through all **ADF** v1 and v2
* Supported **Day to Day** **Production** data load activities and resolved from internal to external distributors and partners.
* Day to day internal regular activities like loading the data from **SFTP to Storage, ADLS and SQl DB** using **ADF** pipelines and supported for business activities like pulling XMLS and Raw files for business users.
* Experienced in configuring NFS shared drive which can be used by multiple **Linux** machines as file share.
* Installing **Dell Boomi Atom & Molecules** in **azure Linux servers**.
* Configured Dell Boomi Atom/Molecule in multiple environments like **DEV, QA, UAT, PREPROD** and **Production**.
* Maintaining Atom/ Molecules and deploying processes to higher environment like UAT, Preprod, Prod.
* Configured and deployed the **adhoc, SQL scripts and ADF pipelines** using **VSTS**
* Configured Artifactories and repositories using **vsts** and used **git** for merging, pulling and pushing with different branches like **DEV, QA** and **Master**
* Experienced in setting up **Palo Alto firewall** in **azure environment.**
* Configured Palo Alto firewall rules to allow **traffic** and deny traffic. Monitoring traffic in Palo Alto Management console.
* Monitoring and maintaining Palo Alto firewall in multiple environments.
* Experienced in setting up **High Availability** and **Disaster recovery setup**.
* Configured azure backup and site recovery for minimal downtime of application.
* Configured the authentication broker and authentication source with OpenID authentication for the **REST API's** using the IDP as Okta.
* Configured **Prometheus** and **Grafana** for **Microservices** like **PODS and Nodes** CPU utilizations and **Pods** deployments and performances.
* Configured Microservices through the VSTS deployments using ARM Templates.
* Creating Tables and controlling access management for azure sql database. Used **Azure Data Factory** and Batch Service to invoke SQL and .Net scripts on **Azure SQL DB.**
* Maintaining the whole infrastructure as code to spin up new environment within minutes of time.

*Environment: RHEL 7.x, Dell Boomi, RabbitMQ, SMARTS, Sparkling logic, Azure SQL, Ansible, Palo alto, Okta, OMS, NGNIX, Ingress, ARM template, ADLS, Data Factory(v1 &v2), Storage Account, Virtual Machines (Windows & Linux), SoftNAS, SendGrid.*

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| Client: Mediacom Communications, Chester, New York April 2017 – February2018 |
| Role: DevOps Engineer/Site Reliability Admin |

***Responsibilities***:

* Perform day-to-day administration of over 300+ systems running on **RedHat Enterprise Linux (RHEL**) and **UNIX/Linux operating systems**. Deployed and implemented the key infrastructure hardware, proactively monitor/troubleshoot system failures, and modify **shell scripts**. Work with Software Development, Database and other departments/support groups to meet business and technical demands. Design, architect, document, and implement new IT Solutions.
* Involved in **Amazon Web Services (AWS)** provisioning and **AWS** administrations like **EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, CloudFront, Elastic File system, RDS, DynamoDB, VPC, Route53, CloudWatch, CloudTrail, Cloud Formation, IAM, Elasticsearch** and maintained the user accounts **IAM Roles, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.**
* Worked on creation of **Docker** **containers** and **Docker** consoles for managing the application life cycle and managed Docker container snapshots, attaching to a running **container**, removing images, managing director structures and managing containers in **AWS**.
* Managed the hosting of **cloud** applications on **IaaS platforms** like **Amazon Web Services** and **OpenShift.** Implemented ofcloud-readyapplications and deploymentpipelineson large-scale **container platform clusters** using **Docker, Kubernetes, Ansible by Red Hat,** and **OpenShift by Red Hat.**
* Worked as an **Openshift SME** for migration of various applications from **OpenShift 3.4** to **3.5 platform** for some few existing applicationsand managed **openshift master, nodes** with upgrades, decommission them from active participation by evacuating the nodes and upgrading them.
* Deploy **Openshift Enterprise v3.x** on **RedHat 7** environment and integration with private **Docker Registry Cluster, OpsWorks** and in **Cloud Security.**
* Involved in **Red hat Openshift Enterprise** development lifecycle platform like **containers, Images, Pods, Routes, Templates** and **Image Streams.**
* Installing, configuring **openshift** andmaintain **high availability** solutioninconfiguringyour **masters** andmaintainingthe **nodes.**
* Implemented a production ready, **load** **balanced**, **highly** **available**, **fault** **tolerant** **Kubernetes** infrastructure and worked on **Kubernetes** to manage **containerized** applications using its nodes, ConfigMaps, selector services and deployed application containers as Pods.
* Used **Ansible Playbooks** to setupcontinuous delivery pipeline deployed micro services**,** includingprovisioning **AWS** environmentsusing **Ansible Playbooks.**
* Created **Chef** **Automation** **tools** and builds, and do an overall process improvement to any manual processes.

Used **Chef** **Cookbooks**, **recipes, roles, data bags**, run list to deploy web applications, applications server and vendor applications.

* Created Source code management with **Git hub** and **GitLab** to add, commit, push codes to various branches and setup **Jenkins** and implemented a continuous delivery framework using **Jenkins, Chef, Maven** in **Linux environment**.
* Configured **Jenkins** with **Git** for appropriate release builds. Scheduled automated nightly builds using **Subversion**. Maintained continuous integration effort with **Subversion** along with scheduled builds.
* Involved in devops team members and **ITUNIX** Engineering teams to ensure the site ability and reliability of our platform.
* Established full **CI/CD** lifecycle for **API** build, test and deploy within multiple markets and worked on best practices for **API** design, governance and implementation in production environment.
* Worked on Building the gap between **API** developers and the Operations Teams responsible for deployment and maintenance and worked on Analytics process needed for visability into integrations and **APIs**.
* Repository management in **Maven** to share snapshots and releases of internal projects using **Nexus** tool.
* Configured **VMware** **HA**, **VMware** **DRS** **Clusters** for **VMotion** migrations between **ESX** Servers. design, implementation and troubleshooting **VMware** ESXI 6.0 Hosts, **VMware** **vSphere** **virtual** **center** and upgraded of **ESXi** from **version 5.5** to **version 6.0** while keeping the **VM's** in maintenance mode.
* Created and maintained the **Shell** deployment scripts for **Tomcat web application servers** andwork closely with the patches to the **middleware** of **Oracle WebLogic, JBOSS** and **Apache Web Server** in the **production Environment.**
* Worked with **RHEL 5, 6, 7, CentOS,** and **Solaris system** administration in an enterprise environment and supported infrastructure servers in an **ISP (Internet Service Protocol)** environment with advanced enterprise levels of **DNS** and **DHCP** technical troubleshooting skills with **NFS, Kickstart** procedures, performance tuning, mail, security.
* Performed **SAN/NAS** storage solutions (NetApp) and worked with **LDAP/ OpenLDAP** configuration and monitoring of customer facing issues enterprise email systems like **INBOUND, OUTBOUND, Spam,** and **login**. worked with **Active Directory Services, Broadband Access, Triage, IIS Servers, TCP/IP, DNS, DHCP** and **Terminal Services**
* Participate in on-call rotation and work to resolve critical issues 24/7.
* Managed **Amazon EC-2** instances by taking AMIs and performing administration and monitoring of the Amazon instances like **EC2** using **Nagios Core, NagiosXi** and **Splunk.**
* Worked on **python** based test frameworks and test driven development with automation tools
* Responsible for selective **Zimbra mailbox** restores & **Exchange mailbox** reconnects due to missing or deleted email and successfully migrated and created users to **Zimbra** and **cloud mark** for the **Customer Email**.

***Environment:*** *EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, CloudFront, IAM, Chef, Docker, Ansible, Python, Jenkins, Nagios, Ant, Maven, GIT, GITHUB, Shell, CRONJOBS, Nagios Core, Nagios Xi, BMC Remedy, Linux, Unix, VMware.*

**Client: Freeosk, Chicago, IL August 2015-March 2017**

**Role: DevOps Engineer/ Cloud Security Engineer**

**Responsibilities**:

* Created **EC2** Instanceson **AWS Cloud**, **EBS (Elastic Storage Block),** **EC2, S3, Elastic Beanstalk, Elastic Load Balancing (Classic/Application), Auto Scaling, RDS, VPC, Route53, Cloud Watch, IAM, Lambda, Code commit, Code deploy.**
* Used **IAM** to **create** andmanage **AWS users** and **groups,** and usepermissions to allow and deny their access to **AWS resources.**
* Performed s3 buckets creation, policies and on the IAM role based polices and customizing the **JSON template**.
* Deployed and configured **Azure websites**, configure diagnostics, monitoringand analyticson **Azure Platform** along withscale and resiliencefor **Azure Web** sitesandmigration of existing infrastructureon **Azure Service Manager(ASM)** to **Azure Resource Manager(ARM).**
* Worked on configuring cloud platform such as virtual networks multi-site, cross-site, **VMs, Azure AD, Load Balancers, Azure SQL, Cloud Services,** etc**.**
* Implemented **CI/CD** using multiple **Jenkins Master** and slaves and configured with pipeline using **GIT/SVN, Maven Plugins**, **nexus** or **Artifactory**, deployments tools with **UDEPLOY** and **Puppet**.
* Administration and support of homogeneous production and development server infrastructure of multiple flavors of **Linux** and setup with **SVN Server & GIT** on a **Linux** environment, configured the users with **LDAP**, created the repository and ranching structure for all the applications
* Installed and configured an automated tool **Puppet** that included the installation and configurationof the **Puppet master, agent nodes** and an **admin control workstation**.
* Implemented **Puppet** modules to install configure and maintain web servers like **Apache Web Server, Nginx**. Involved in User Management and support for local and remote users, manage system access across groups to ensure compliance, and maintained best practices.
* Worked on **Puppet modules** for **TOMCAT and WEBSPHERE** and Automated multiple applications through **puppet Manifests**. created **Docker containers** with the help of **Docker images.** Virtualized the images by using the **Docker files.**
* Creation of **BIG IP F5** Load balancer to provide high scalability, availability and reliability.
* Installed, configured and Administrated of all **UNIX/LINUX** servers, includes the design and selection of relevant hardware to Support the **installation/upgrades** of **Red Hat (6/7), CentOS 6/7, Ubuntu** operating systems.
* Strong hands on experience in **scripting languages** like **Perl, Bash, Shell, Ruby and Python and** worked with **MySQL, MS SQL Server**, and their feature set and created **database in MySQL** as per the requirement.
* Developed automation and deployment utilities using **Ruby, Bash, Powershell** and **Python.**
* Involved in an **Agile/ Scrum environment** and daily standup meetings and installed, configured and administer **Splunk Enterprise Server 6.x.x and Splunk Forwarder 6.x.x on Redhat Linux**.
* Maintenance of existing **Splunk** infrastructure on **Solaris** platforms and setting up new environment on **Linux VM's** in development and testing the existing apps after migrated from existing **Splunk infrastructure.**

***Environment****: Git, Gradle, WebSphere, Artifactory, Jenkins, Docker, Splunk, Puppet, WebSphere, Apache Tomcat, Nginx, AWS, Azure, Shell, Quality Center, Triage, Python, Unix, Linux, Windows, Java/J2EE.*

**Client: VISA, Ashburn, VA. June 2014 -May 2015**

**Role: Build & Release Engineer/ VMware Engineer.**

**Responsibilities:**

* Primary responsibilities include **Build and Deployment** of the java applications into different environments like **Dev, INT and QA.**
* Involved in automation of build and release process for various business critical applications.
* Knowledge and expertise in every phase of **SDLC (Software Development Life Cycle)** and using Agile (**SCRUM**) Methodology.
* Worked as a **Build** and **Release** Engineer in **Automating, Building, Deploying, and Releasing of code from one environment to another environment**.
* Worked on source controller tools like **Subversion (SVN**) and extensively worked on continuous integration and for End to End automation for all **build and release**.
* Worked on installation of **local yum repository** and package administration using **YUM** and **RPM.**
* Followed **Agile Methodology** toolset including tools for maintaining user stories and deployment solutions for Scrum and worked for Agile as Continuous Integration Environment and automated the whole process.
* Configured and maintaining various **Webservers** like **Apache and App servers** like **Tomcat, WebLogic, JBoss**.
* Worked on Installation/Configuration/Administrated **VMware ESXi 5.5 & 6.0** and migrated existing servers into **VMware Infrastructure.**
* Installed Patches and upgraded **ESXi hosts using VMware** Update Manager and through **CLI. Monitored VM & ESXi server components like CPU, Memory, Disk** and **Network Utilization** and Configured **VMotion / Creating** resource pools and **configuring the VM’s based on priority**.
* Team role included working in **VMware Orchestrator**, **VMware, Vrealize, Automation Center 6.0 (vRA)** catalog management creating cloud server provisioning entitlements, creating and defining **business groups**, **creating catalog items**, creating services for the catalog items, creating **Windows 2008/2012**) and **Linux (Red Hat6)** blueprints.
* Writing **shell scripts** for Automated Back-ups and **Cron Jobs** using **ssh** and bash and managed user accounts and groups for corporate Linux users and supported corporate Linux Development servers.
* Installation, Configuration and Management of **NFS, HTTP, FTP, SAMBA, DHCP, DNS Servers**.
* Updated Maven build configurations and created integration tests and performance tests Managed **SVN branching and merging** for older projects in multiple simultaneous releases.
* Experienced in authoring **pom.xml files**, performing releases with the Maven release plugin.
* Extensively worked on Installation and configuration of **Red Hat Linux 5 /6, IBM AIX 5.X and Windows 03/08 Servers** on large distributed environment.

***Environment:*** *RHEL Linux, UNIX, Subversion, Maven, ANT, Apache Tomcat, XML, bash, Shell scripts, VMware.*

**Client: Launch Ship, Boca Raton, FL September2013-May2014**

**Role: Linux Administrator/ VMware Engineer.**

**Responsibilities:**

* Managed with **VMware** products including **vSphere 5.0, 5.1, 5.5 VMware Horizon View VDI, VMware SRM, VMware Lab Manager, vCloud Suite, vCAC, vRealize, Automation, Orchestrator** and **vShield.**
* Creating, cloning **Linux virtual Machines, templates** using **VMware Virtual Client 3.5** and **migrating servers between ESX hosts.**
* Migrated about **500 servers** from **Physical-to-Virtual (P2V), Virtual-to-Virtual (V2V)** in both **VMware** and **Hyper - V** environments using **plate spin** and **VMware convertor.**
* Worked on specs for **new infrastructure and VMware servers, disk storage, and network switches, routers, firewalls, and VPN's.**
* Involved on **Networking** in analyzing, designing, implementing **Switches, Routers, Firewalls, DNS client, DHCP client, NFS client and SAMBA client.**
* Expertise Experience and Knowledge on **Logical volume manager** (**LVM**), **creating disk partitions, setting up file systems and mounting** the file systems and **unmounting them.**
* Installed, updated and removing different packages using **RPM** and used **YUM** to update specific packages. Wrote scripts for automation, and monitoring using **Shell (bash, C and Ksh), Python** and **Perl scripts**
* Experienced in configuration and maintenance of common Linux services such as **Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP, HTTPS, SSH, IP Tables** and **Firewalld.**
* Daily monitoring and response for **Linux** servers, including application processes, file system alerts, system faults.
* Updating and upgrading **ESXi 5.x, 6.x servers, vCenter Server, using vSphere Update Manager and VM Tools through manual updates** andmanaged ESXi hosts using **VCenter Server/ vSphere Client and VMware** Web Client.
* Performed **VMotion and Storage VMotion of Virtual Machines** across different cluster with respect to **security policies and application development requirements**
* **Created and maintained File system, user accounts, removed users, lock/unlock users in Linux**.
* Completed work on **LVM**. **Created volume groups, extended volume groups, reduce volume groups, mirrored Volume Groups**.
* Perform server updates, patching, upgrades, and package installation using **RPM** and supported **Red Hat Enterprise Linux Servers and configurations plus reporting and monitoring.**
* Installation and configuration of Red Hat Linux on new server builds as well as during the upgrade.

***Environment:*** *Red Hat Enterprise Server (RHEL 4, 5), HPC, IBM AIX 5.3 & 6.1, VMware, Vcenter, VSphere, Scripting, Suse LINUX, UNIX, Firewalls, FTP, DNS, SSL, SSH.*