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Description automatically generated with low confidenceSr. DevOps Engineer/cloud A picture containing logo

Description automatically generatedEngineer/Unix Linux Engineer/AWS Architect**

**SRIKANTH REDDY DUDIPALA**

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**PROFILE**:

Linux and DevOps professional having 14+ years of experience in the IT industry. Expertise in Servers **Red Hat Linux** and automation, cloud solution design & deployment on **AWS, Python and Terraform docker and Kubernetes**. Experience in managing infrastructure as code for multiple applications including large-scale data centres, highly available distributed systems, fault tolerant environments, high volume production instances and web platforms. Expertise in creating an environment using Build/Release Engineering **(CI/CD)** process to build continuous integration and delivery pipeline to monitor operations and production processes.

**TECHNICAL SUMMARY:**

* Having 14+ Years of experience in DevOps and Unix/Linux environments.
* Hands on Experience in Installing, upgrading, and configuring **Red Hat Linux 6x, 7x & 8x** using Kick start Server and Interactive Installation.
* **DevOps** life cycle, **Build** **and** **Release** **Management**, **Cloud** **Management**, **CI** / **CD** with **Software** **Configuration** **Management** (SCM), **Automation**.
* Having hands on experience in in DevOps life cycle, Build and Release

Management, Cloud Management, CI / CD with Software Configuration Management(SCM), Automation.

* Expertise in creating DevOps strategy in a mix environment of Linux (RHEL, CENTOS, UBUNTU) servers and Windows along with cloud services like Amazon Web Services, Azure.
* Involved in Implementation of **various AWS Resources & deployment using EC2, VPC, S3, RDS, Route53, SNS, IAM (Identity Access Management), Cloud Watch, EBS, ELB, ECS, Lambda, Cloud Front, Auto Scaling, SQS, Elastic Beanstalk.**
* Experienced working on AWS Code Deploy to automate application deployments, which includes build, test, scan, and deployment on target server.
* Experience in migrating on premise project into Amazon Web Services utilizing AWS Cloud formation templates, Code Commit, Chef, EBS and AWS OpsWorks.
* Experience in dealing with Azure Services like Virtual Networks, Virtual Machines, Resource Groups, Express Route, VPN, Load Balancing, Azure Synapse, Azure Data Lake, Azure Functions, Auto-Scaling, Azure Power shell, Azure Monitor, Traffic Manager, Azure CLI.
* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the Azure portal to provide resiliency for IaaS based solution and Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM) to manage network traffic and automated ARM resource creations using ARM templates.
* Experience in Azure Services like PaaS, IaaS, SaaS and worked on storages like Blob (Page and Block), SQL Azure. Well experienced in deploying Azure Functions Integrating with GitHub, Jenkins, and Azure.
* Expertise in App Containerization technology Docker, Writing Docker files, Building Docker images, Creating Containers. Cloning Docker base images from Docker Hub and Customizing as per organization requirement.
* Experience in Docker Swarm for clustering and scheduling of Docker containers and other docker components like Docker engine, Docker Hub, Docker Compose and Docker registry.
* Worked on implementing Kubernetes services cluster for managing dockerized containers, which includes application deployments, scaling, monitoring, logging, and high availability.
* Experience working on cloud Kubernetes services like AKS for deploying Kubernetes cluster and creating namespaces for applications to deploy, POC on Amazon EKS implementation.
* Implemented Terraform for deployment of various applications infrastructure across multiple cloud providers like AWS and Azure.
* Expertise in developing AWS Cloud Formation templates for Building, changing and versioning infrastructure safely across various environments.
* Extensively worked on Chef Roles, Cookbooks, Recipes, Templates, Resources, Attributes & Data bags. Proficient in setup Chef Servers, workstations & bootstrapping infrastructure Chef Nodes for configuration management.
* Experience in writing **Ansible playbooks, created custom playbooks written in YAML, encrypted the data using Ansible Vault and maintained role-based access control by using Ansible Tower to manage web applications, Environment’s configuration files, Users, Mountpoints and Packages.**
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all applications build and deployments. **Implemented a Continuous Delivery pipeline with Docker, Jenkins, GitHub, Maven and AWS.**
* Experience in using Nexus Repository, integrating with Jenkins to store Maven build artifacts, Custom docker Images, npm modules and other application build dependencies to use across projects.
* Experience with Build Tools like Ant, Maven for building artifacts like JAR and WAR from the source code, code quality analysis using SonarQube and Gradle to automate building, testing, and deploying applications.
* Experience working on version control systems like **GIT, Bit-bucket and SVN (Subversion) and used Source code management client tools GitHub and Git GUI and other command line applications** etc.
* Experience in set-up and managing Centralized Logging Platform ELK (Elastic Search-Logstash-Kibana) Stack for collecting, parsing, and analyzing logfiles across various servers and KAFKA for data streaming.
* Experience in using Application Performance Monitoring tools like Dynatrace, Cloud Watch, Splunk, Datadog, Nagios.
* Experience in writing various automation scripts to automate manual tasks, deploy applications, application build scripts and application packaging etc. using Bash Scripting, Advanced Shell, and Python Scripting.
* Experience in JIRA tool to track all the defects and changes related to build and Release.
* Expertise in Working with web servers such as Apache HTTP server, NGINX, Apache TOMCAT, application servers
* Experience in Installing Firmware Upgrades, Kernel patches, system configuration, performance tuning on Unix/Linux systems.
* Expertise in creating DevOps strategy in a mix environment of Linux (**RHEL, CENTOS, UBUNTU**) servers along with cloud services like Amazon Web Services.
* Extensively worked on Chef Roles, Cookbooks, Recipes, Templates, Resources, Attributes & Data bags. Proficient in setup Chef Servers, workstations & bootstrapping infrastructure Chef Nodes for configuration management.
* Experience in writing Ansible playbooks, created custom playbooks written in YAML, encrypted the data using Ansible Vault and maintained role-based access control by using Ansible Tower to manage web applications, Environment’s configuration files, Users, Mountpoints and Packages.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all applications build and deployments. Implemented a Continuous Delivery pipeline with **Docker, Jenkins, GitHub and AWS**.
* Experience working on version control systems like **GIT**, **Bit**-**bucket** and **SVN** (Subversion) and used Source code management client tools **GitHub** and **Git** **GUI** and other command line applications etc.
* Designed and implemented continuous application deployment **(CI/CD)** process using Declarative and scripted pipelines.
* Good understanding of file system and storage management concepts like LVM.
* Experience in Creation and managing user accounts, security, rights, disk space and process monitoring in Red Hat Linux.
* Configuring and administering NFS and AUTOFS.
* Remote system administration using tools like SSH.
* Automation of jobs through Crontab.
* Responding to alerts in a timely fashion as per the pre-defined priority levels and SLAs.
* Responsible for company-wide systems and network security.
* Performing backups/restores using Sync Backup Open-Source Tool.
* Remote Server Administration and Troubleshooting
* Network card and IP address configuration, Network utility checking.
* Managed users, groups, and ftp accounts, permissions, and security for clients.
* Managing network printers, Application installation for the users in Unix/Linux.
* Handling Linux Based Networking, Web server, Ftp server, DNS server, Samba Server, DHCP server, NFS server, Squid server, HTTP Server security, compiling, Install MySQL software & installing open-source Software.
* Creation of file systems and checking the NFS auto mount file systems functionality.
* Maintain the log files to troubleshoot the issues.
* Managing and resolving server and user level issues.
* Handling Linux Based Mail server, Web server and Ftp server.
* Securing and managing networks with firewall & IP tables, creating rules to filter traffic.

**TECHNICAL SKILLS:**

* **Operating Systems** : Linux, Solaris & Aix
* **Backup**  : NetBackup, Symantec
* **Cloud** : AWS, vRo and vRa and Azure
* **Automation tools** : chef, ansible
* **Scripting** : bash, python and groovy
* **Database** : postgresql, Oracle,SQL

**CERTIFICATIONS:**

* **Red Hat Certified System Administrator – Certification Number: 150-220-515**
* **Red Hat Certified Engineer – Certification Number: 150-220-515**
* **AWS Certified Solution Architect – Associate-validation number: FJXDYGB2SMFE1FKK**
* **Microsoft Certified: Azure Fundamentals - Certification Number: I392-8747**
* **Microsoft Certified: Azure Administrator Associate - Certification Number: I393-3146**

**WORK EXPERIENCE:**

**Working as Senior DevOps engineer/Linux in Deloitte from May 2023**

* Involved in setting up **Kubernetes** (k8s) clusters for running microservices in cloud environments in **AWS**.
* setting up Kubernetes cluster using **Jenkin’s** **pipeline**, which Integrated with version control git where we initiate yaml files to be used during deployment on Kubernetes cluster.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes **GKE** service.
* Worked on set-up and managing Centralized Logging Platform ELK (Elastic Search-Logstash-Kibana) Stack for collecting, parsing, and analyzing logfiles across various servers and KAFKA for data streaming.
* Creating resources via the Argo CD UI is an intentional, strategic departure from GitOps principles. We recommend that you use this feature sparingly and only for resources that are not part of the desired state of the application.
* Deploy IaaS and PaaS infrastructure in AWS with Terraform and Ansible
* worked on IAAS AWS OR “Amazon Web Services” and Azure
* mplement scalable, resilient, and secure application solutions in AWS in an Agile environment
* Design and deploy containers on AWS Elastic Kubernetes Service
* Design observability infrastructure, including logging, traceability, and usage alerts
* Implement AWS security policies, monitor the AWS environment to identify potential risks, and take corrective action
* Extensive experience in Terraform and AWS infrastructure environments, including ECS, EC2, S3, Lambda, and others
* Strong knowledge of AWS services such as EC2, VPC, and IAM
* Extensive knowledge of Linux server operating systems and networking
* .Create, schedule and run the scenarios using JMeter and generate necessary graphs.
* Extensively worked on JMeter to create Thread Groups and test Web Application for various loads on key business scenarios.
* Created and executed JMeter scripts for performance testing.
* Experience with deployment and configuration of Dynatrace UEM agents including the ability to troubleshoot down to the individual user level.  
  Experience assisting business teams to establish policies, alerts, dashboards and custom configuration for visibility into the environment

**Working as Senior DevOps engineer/Linux in CSG international from Oct 2021 to 2023 May.**

* Installing Firmware Upgrades, Kernel patches, system configuration, performance tuning on Unix/Linux systems.
* Planning & Resolving the Issues within the specified down time.
* Specific experience with Puppet Development Kit (PDK) to automate Puppet unit testing (e.g., rspec, lint, Rake, etc.)
* Specific experience with Puppet Enterprise (or a similar enterprise configuration management tool), Puppet Query Language (PQL), Hiera, and e-Hiera
* Capable of optimizing and enhance existing Puppet infrastructure from a leadership position.
* Proficient with Git, multiple remotes to manage Puppet codebase ensuring proper branching, merging, tagging, labels, and release management when coordinating with multiple teams.
* Good understanding of file system and storage management concepts like LVM.
* Experience in Creation and managing user accounts, security, rights, disk space and process monitoring in Red Hat Linux.
* Knowledge on Red Hat Satellite6
* Configuring and administering NFS and AUTOFS.
* Remote system administration using tools like SSH.
* Automation of jobs through Crontab.
* Responding to alerts in a timely fashion as per the pre-defined priority levels and SLAs.
* Responsible for company-wide systems and network security.
* Performing backups/restores using Sync Backup Open-Source Tool.
* Remote Server Administration and Troubleshooting
* Network card and IP address configuration, Network utility checking.
* Managed users, groups, and ftp accounts, permissions, and security for clients.
* Managing network printers, Application installation for the users in Unix/Linux.
* Handling Linux Based Networking, Web server, Ftp server, DNS server, Samba Server, DHCP server, NFS server, Squid server, HTTP Server security, compiling, Install MySQL software & installing open source Software.
* Creation of file systems and checking the NFS auto mount file systems functionality.
* Maintain the log files to troubleshoot the issues.
* Managing and resolving server and user level issues.
* Working on designing and deploying a multitude application utilizing almost all the main services of **AWS** stack **(like EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda** and **Cloud Formation)** focusing on high availability, fault tolerance environment.
* Creating network architecture on **AWS VPC, Subnets, Internet Gateway, Route Table** and **NAT Setup.**
* Managing **AWS** **EC2** instances utilizing **Auto** **Scaling**, **Elastic** **Load** **Balancing** and **Glacier** in QA and UAT.
* Virtualizing the servers using the **Docker** for the test environments and development environment and performed configuration automation using Docker containers.
* Creating additional Docker Slave Nodes for Jenkins using custom Docker Images and pulled them to Cloud. Working on all major components of Docker like, **Docker** **Daemon**, **Hub**, **Images**, **Registry**, etc.
* Involved in setting up **Kubernetes** (k8s) clusters for running microservices in cloud environments like **AWS** and **Azure**. These microservices was deployed on to Kubernetes cluster using **Jenkin’s** **pipeline**, which Integrated with version control git where we initiate yaml files to be used during deployment on Kubernetes cluster.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes **GKE** service.
* Written **Terraform** modules to create multiple instances to build the infrastructure as needed with defined configuration within the **VPC** created using public and private subnets based on requirement.
* Implemented automation for deployments by using **YAML** scripts for massive builds and releases.
* Writing **Playbooks** and implementing various roles for applications using **Ansible** to ensure application dependency software should install and configure on target hosts to get successful deployment of Applications/Services on the client hosts.
* Configuring and Integrating the Servers with different environments to automatically provisioning and creating new machines using Configuration management/provisioning tools Ansible.
* Working on **GitHub**, which includes branching, Merging, tagging pull requests, creating topics to group Repositories, Webhooks and resolving merge conflicts in collaboration with Application Developers, Written scripts using Bash and Python for automatic branch merging in Git from same organization and from different organizations.
* Defining dependencies and plugins in **Maven** pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Building **CI/CD** pipelines in **Jenkins** for continuous integration and continuous deployment using **Terraform**, **Jenkins** and **GitHub** and **AWS**, and worked on freestyle, maven, and upstream and downstream projects. configuring Jenkins’s master and slave nodes on application servers to reduce burden on master Jenkins.
* Developing **Shell** **Scripts** for automating day-to-day tasks like cleaning Jenkins Agents Workspace to prevent issues like running out of space issues.

**Worked as a in DR Technologies Inc., As Senior DevOps engineer/Linux from June2019 to Sep 2021 -New Jersey, USA. (Client - Johnson & Johnson)**

* Worked on Ansible for Orchestration of Deployments for various servers and managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, also involved in managing existing Tomcat, Webservers and automated the configuration of new servers.
* Worked on Jenkins pipeline for complete application deployment automation into Azure environment, this pipeline includes integration of GitHub, SonarQube, AquaScan, Nexus Repository and Azure.
* Designed strategies to develop Jenkins pipelines for different team application deployments. Introduced industry best standards in version controlling tools like GitHub and in Jenkins.
* Worked on SVN to migrate SVN repositories into GitHub. Written custom shell script to migrate SVN repositories into GitHub.
* Worked on developing scripts written in Python, and Shell for multiple tasks automation within the Jenkins pipeline.
* Experience developing and documenting best practices in developing and deploying Dynatrace.

**Worked as Sr. DevOps Engineer/cloud Engineer/Unix Linux Engineer/AWS Architect in Johnson & Johnson from April 2016 to May 2019 - New Jersey, USA.**

* Creating DevOps strategy in a mix environment of Linux (RHEL, CENTOS, UBUNTU) servers.
* Worked on setting up users and groups, and protection of resources with access control policies, enabling single sign-on (SSO), applying layered security such as multi-factor authentication (MFA) and security policies such as password complexity and IP restriction using Identity access manager.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create Ami’s for mission critical production servers for backup and maintained the user accounts IAM, RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Converted numerous existing Java projects to a single deployment method using ECS Container Service Docker Containers.
* Used Amazon Elastic Kubernetes Service (EKS) for managing Kubernetes service that makes it easy for you to run Kubernetes on AWS and on-premises.
* Worked with scheduling, deploying, managing container replicas onto a node using Kubernetes and experience in creating Kubernetes clusters and working with helm charts running on the same cluster resources.
* Worked on writing custom Docker files, building images, creating containers, tagging, and pushing the images to Nexus repository to use across projects during deployments.
* Experience in working with Terraform code for automating VPC’s, ELB’s, Security groups, SQS queues, S3 buckets and continuing to replace the infrastructure.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Configuring high availability, fault tolerance using geographical replica sets across multiple data centers.
* Worked on Setting up Chef Infra, writing chef recipes to automate infrastructure on target environment to deploy applications. Setting up the Chef master, workstation and bootstrapping new infrastructure by applying roles against it, these roles consist of step-by-step tasks to perform.
* Integrating Code Pipeline with Bit bucket, Terraform, ECS, Nexus, maven, Docker, Splunk and custom-built plugins.
* Worked on Version control tool Bitbucket, which includes branching, tagging, merging, resolving merge conflicts, cherry picking, rebasing and upgrades.
* Creating artifact documents through the source code and internal deployment in Nexus repository. Implemented Disaster recovery project using various DevOps automation for CI/CD.
* Automated deployment of applications based on events using Bash and Python.

**Worked as as DevOps Engineer/cloud Engineer/Unix Linux Engineer/AWS Architectin CSG international from January 2015 to April 2016 - Bangalore, INDIA**

* Liaising with architects, database, and application teams to assess server requirements and specifications.
* Building Linux VM’s.
* Physical servers build on HP blades such as ProLiant BL 460 G7, Gen8/9, standalones such as DL 360p Gen8.
* Server decommission.
* Writing puppet manifests for configuration management.
* Monitor server alerts from Zabbix monitoring systems and perform triage.
* Prepare and participate in disaster recovery test (BCP) events.
* Server patching using Red Hat Satellite and Spacewalk.
* On call escalation point for issues on weekdays and weekends.
* FS administration, package administration.
* Handle routine incident tickets, general issues and change management tickets.
* Track issues and manage projects using JIRA.
* User administration - NIS, LDAP and local accounts.
* Conduct daily FIM audits for PCI class servers.
* Rectify audit kickbacks based on PCI audit reports.
* Use BMC BladeLogic for automation and standardization of environment.
* Automation using bash and Perl scripting.
* Preparation of runbooks.

Hands on experience in Security Testing and Performance Testing using tools like Jmeter.

**Worked as Sr. DevOps Engineer/cloud Engineer/Unix Linux Engineer/AWS Architect in ITC InfoTech Ltd from January 2012 to Dec 2014 -Bangalore INDIA.**

* Working on Kernel up gradation on Linux
* Experience of configuring Printers with CUPS and IPP feature
* Knowledge of Security, Firewall and VPN technologies and related software’s.
* Experience in DHCP, DNS, implementations and TCP/IP installation and configuration using TCP wrappers on different Linux platforms in heterogeneous Network environments.
* Implemented ACL’s (Setfacl, Getfacl), worked with UNIX shell, file system permissions.
* Setting up automatic Installation and configuring of new servers and workstations using Kickstart
* Implementing Samba and FTP services across heterogeneous platforms.
* User Administration and maintenance of Red Hat Linux Servers
* Implementing and upgrading the packages using YUM and RPM utilities.
* Monitoring the production servers using OS watcher.
* Work closely with globally distributed technical support staff and the software and Network design teams
* Managing Backup and restore using backup utilities like tar, cpio and dump.
* Understanding the Linux Boot Process and controlling the boot time service using chkconfig commands
* File system and NFS Administration on Linux and UNIX server platforms
* User administration and Sudo Administration for Onsite DBA’s
* Implementing Samba and FTP service packs across the Operating Systems.
* Implementing Send mail services to relay mails from application and databases servers to flow from email server.
* Experience on VMware ESXi 4.0 and 5.0
* Implementing and Creating ESXi servers across the data centers and controlling the VMware resources.
* Creating Virtual Machines(VM’s) on esxi(4.0 and 5.0), maintaining the resources and analyzing the performance of the VM’s
* Experience on Storage implementation using NETAPP
* Creating NETAPP volumes and exporting to Physical and Virtual servers.
* Maintaining the LUN management of provisioned volumes.
* Worked on implementing OS Health checks for production and non-production servers
* Provided various solutions and resolved production and non-production issues.
* Installing NTP services on production and non-production servers and make sure the time is always sync with the time servers in a network
* Installing kernel parameters and PAM modules for 32 and 64bit OS to support Oracle Management Pack
* Creating the Storage as per the Clients requirement
* Ensure Packages validation for all production servers
* Worked on ISCSI and multipath services.
* Providing required information to clients for audit purpose.
* Actively participated on internal meetings and Maintenance for client outages
* Resolving the Read-Only file system issues on Redhat OS
* Checking system performance issues using top, mpstat, iostat, sar, free and ps
* Working closely with Monitoring teams to resolve the critical alerts
* Implementing ACL’s on OS file systems
* Create and maintain detailed up to date technical documentation(e.g. standards, process, SOP’s)
* Detailed reporting on the status of trouble tickets and build projects through defined processes

**Worked as a Linux Engineer in Infinite computer solutions from January 2008 to Dec 2011- Hyderabad, INDIA.**

* Working for different clients and supported full range of Production problems on Linux servers coordinating with development teams
* Work closely with our globally distributed technical support staff and the Engineering design teams.
* Supported full range of networking problems on approximately 200 users Linux Servers coordinating with System Administrators in Sapeare.
* Maintained detailed knowledge of current software/hardware requirements.
* Produced and maintained documentation to controlled standards, including Project plans and status reports.
* Network based Installation (HTTP/NFS/FTP)
* Responsible for configuration and installation of Red Hat servers
* Handling Monitoring tools such as Nagios,OsSec, free, top and Webalizer
* Implementation of Oracle Management Service pack
* Administered Red Hat Linux servers: Kickstart
* Network based Installation (HTTP/NFS/FTP)
* Installing with customized Kickstart ISO image
* Proficiency in Linux (kernel 2.6) flavors like Red Hat.
* File system and User Administration on Windows server platforms
* Hands on experience in implementing Linux in Software Development/ISP environments.
* Implementation of firewall policy using iptables, NAT and Selinux.
* Handling information Security issues, Vulnerability assessments, Intrusion Detection.
* Experience in implementation of digital certificates using openSSL for website security.
* Experience of Kernel recompilation and Kernalupgradation on RedHatLinux
* Experience of configuring Printers with CUPS and to support IPP feature
* Knowledge of Security, Encryption, Firewall and VPN technologies and related software’s.
* Experience in DHCP, DNS, TCP/IP installation and configuration on different platforms in heterogeneous Network environments.
* Implemented ACL’s (setfacl, getfacl), Worked with UNIX shell, file system permissions
* Setting up automatic Installation and configuring of new servers and workstations using Kickstart
* Responsible for Installation, configuration, User Administration and maintenance of Red Hat Linux Servers
* Expertise in creating Virtualization.

**EDUCATION:**

Completed B. Tech from JNTU, Hyderabad

**DECLARATION:**

I do hereby declare that the above statement given by me is true to the best of my knowledge and belief and I look for a chance to prove my competence.

Srikanth Reddy Dudipala