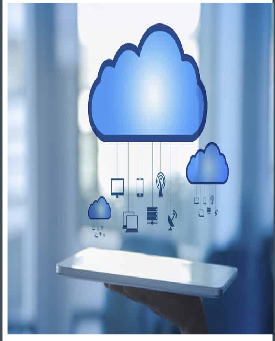
PROFESSIONAL SUMMARY



**Harshith Reddy**

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* Qualified and educated IT professional bringing more then **7+ years** of expertise in IT industry with specialization in code configurations, building & deploying of artifacts for entire life cycle model in enterprise On-Prem and Cloud applications.
* Expert in creating **DevOps** strategies in various distributions of Linux/Unix, Windows, and Cloud through the usage of **DevOps** and monitoring tools such as ANT, Maven, Jenkins, Bamboo, TeamCity, Nexus, Artifactory, Chef, Ansible, Docker, Kubernetes & Marathon, Terraform ,Nagios , and Splunk.
* Strong foundation on principles and best practices in Agile and Waterfall methodologies.
* Vast experience in migrating on-premises infrastructure to **Amazon Web Services** , **Microsoft Azure**
* Expertise in building IaaS infrastructure in **AWS** and **Azure** cloud platform: creating, configuring, and launching EC2 instances, importing volumes, and configuring (security groups, auto scaling, and Elastic load balancer) in established Virtual Private Cloud (VPC).
* Proficient in usage of **Amazon web service** features: EC2, EBS, IAM, S3 bucket , ELB, RDS, VPC, ROUTE53, CloudWatch, Kinesis, Key Management Service, Security Groups, Auto scaling groups (ASG) ,Cloud Formation Templates for specifying (VPC, Subnets and NAT) for successful deployment of web applications and database templates, snowball for migration of large amount of data from direct on-premises data centers to AWS, Glacier for long-term storage and backup.
* Proficient in architecture and implementation of **Azure services** such as IIS, Azure active directory, Azure resource

management, Azure VM, Blob Storage, SQL Database, consists of hands-on experience in following Azure components : Azure web application, App services, Azure storage, Azure SQL database, Azure virtual machine, Fabric service, Azure active directory, Azure search, and Notification hub.

* Expertise in implementation of **Terraform** modules, configuring and creating **Terraform** file for deployment of various applications across multiple cloud platform, building & managing infrastructure.
* Experienced in using **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications in **pods** using its **nodes**.
* Extensive experience with deployments using **Docker** software, hands on experience on working with **Docker images**, **Docker Hub** and **Docker- Registers**.
* Proficiency on configuration management tools such as **Chef**, **Puppet**, **Ansible**, and **Terraform** which were widely used for the automation purpose with large scale of the servers.
* Expertise in build tools **Maven** and **ANT** for building of deployable artifacts (JAR, WAR & EAR) through **Jenkins** from the source code
* Experienced in branching, tagging, and maintaining the version across the environments using the version control tools such as **GIT**, **Rational Clear Case** and **SVN(Subversion)** on **Linux/Unix/Windows** server.
* Detail-oriented professional with extensive system **administration scripting experience** using Ruby, Python , PowerShell, Perl, Bash and KSH shell programming technologies.
* Proficient in **network monitoring** and **logging tools** such as Nagios, Zabbix, Monit, Splunk, Heapster, and Logstash.
* Experienced with variety of **bug tracking tools** such as JIRA, Remedy, HP quality center, and IBM clear quest.
* Practical experience in installation, configuration, administration, and troubleshooting of servers; Red Hat, Linux/Unix, Ubuntu, CentOS, Oracle, Enterprise Linux, VMware ESX & ESI environments.
* Strong tentative skills in **Configuring services** like DNS, NIS, NFS, LDAP, SAMBA, Send Mail, FTP, Remote access on Linux.

## TECHNICAL SKILL SET

* **OPERATING SYSTEMS** : RHEL, RedHat, CentOS, Ubuntu, Windows Servers
* **CLOUD ENVIRONMENT** : Amazon web services, Microsoft Azure
* **BUILD TOOLS** : Ant, Maven, Make and MS Build
* **CONFIGURATION MANAGEMENT** : Chef, Puppet, Ansible, Terraform
* **CI/CD TOOLS** : Jenkins, Hudson, and Bamboo
* **ARTIFACT REPOSITORY MANAGEMENT**: Nexus, JFrog, Artifactory
* **VERSION CONTROL SYSTEMS**: Git, SVN, Perforce, ClearCase , GitLab and Bitbucket
* **CONTAINERIZATION TOOLS**: Docker, Rocket, Kubernetes, Marathon, VM virtual Box, VMware
* **DATABASES** : Oracle, SQL Server, MySQL, DB2, MongoDB, PostgreSQL, NoSQL, Cassandra
* **NETWORK PROTOCOLS**: TCP/IP, HTTP/HTTPS, NDS, DHCP, NFS, LAN
* **SERVERS** : Apache , Httpd, WebSphere, Web Logic, JBoss, Nginx
* **MONITORING TOOLS**: Nagios, Splunk
* **VIRTUAL SERVERS** : VMware ESX Servers, vSphere, Solaris Zones
* **PROGRAMMING LANGUAGES** : Shell, Bash, Ruby, Python, Perl
* **BUG TRACKING TOOLS** : Jira, Rally, Remedy, Bugzilla, ClearQuest

## EXPERIENCE

### Sr. Cloud DevOps Engineer –Remote(Texas)

***WWT****, Feb’2021-Current*

* + Working with broad range of **AWS**, Cloud Services like EC2, ELB, Amazon Glacier, Cloud Front, Code Deploy, Elastic Bean stalk, Auto Scaling, Route 53, S3, AMI, SNS, Dynamo DB, Elastic search and Cloud Watch and have in-depth knowledge on other cloud services.
  + Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
  + Configured S3 to host static web content.
  + Assigned and managed roles for users and groups by defining policies via Identity and Access Management
  + Used **AWS** CLI to create new instances and manage existing instances.
  + As a part of Infrastructure management team, completely involved in setting up the new environment for Continuous Integration (CI) and Continuous Deployment (CD) in agile software methodology.
  + Using Amazon Elastic Beanstalk, automatically handling the deployment, from capacity provisioning, load balancing and auto-scaling along with SQS, SNS, SWF services to application health monitoring
  + Creating **Docker** images from scratch and customizing them as per the requirement, along with that working on Docker containers, directory structure and removing Docker images.
  + Developing and managing AWS infrastructure pipelines, implementing Infrastructure as Code (IaC) practices, collaborating with cross-functional teams, automating provisioning and configuration processes, ensuring smooth deployment and troubleshooting of AWS resources, and optimizing pipeline efficiency and reliability.
  + Implemented AquaSec's container security platform into CI/CD pipeline, ensuring secure software releases and compliance.
  + Automated security testing and vulnerability assessments using AquaSec tools, reducing manual effort by 40%.
  + Conducted threat modeling and risk assessments for container environments, leveraging AquaSec best practices.
  + Integrated AquaSec into IaC framework, enforcing security compliance across cloud environments.
  + Trained teams on secure coding practices, promoted security awareness, and responded to incidents using AquaSec.
  + Setting up Continuous Integration environment using Jenkins and set the new Jenkins server and slave machines to support machines.
  + Implementing Blue-Green deployments techniques within AWS.
  + Installed and implemented ansible configuration management system. Used Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
  + Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
  + Install, troubleshoot, and maintain Ansible Tower server environment.
  + Used Ansible server and workstation to manage and configure nodes ansible.
  + Experience with **Ansible** Tower to manage Multiple Nodes and Manage Inventory for different Environments.
  + Using Ansible Tower, which provides an easy-to-use-dashboard, role-based access control, so that any other individual teams access to use ansible for deployments.
  + Worked with build pipeline set up for Continuous Integration/Continuous Deployment using Jenkins/Jenkins Enterprise editions and Udeploy+ to orchestra changes across servers and components.
  + Developed build and deployment scripts using ANT and as build tools in Jenkins to move from one environment to other environments.
  + Involved in JIRA as defect tracking system and configure various workflows, customizations and plug-ins for Jira bug/issue tracker and integration of Jenkins with Jira/GitHub
  + Worked on building & deploying code through Jenkins, used Jenkins Amazon Web Services (AWS) Code Deploy plugin to deploy to AWS and worked AWS Cloud management.
  + Work with Development Team Leads and Testing team to establish a build schedule, execute the builds and troubleshoot build failures, if any. Also, worked closely with them in Merging after each release.

***ENVIRONMENT****:*

RedHat Linux, Git, Gitlab, Jenkins, AquaSec's, Docker, Docker Swarm, Ansible, Ansible Tower, Ant, Jira, AWS- EC2,IAC, S3, Mongo DB, EBS, ELB, VPC, Cloud Watch, IAM, SNS, SQS, Route53, Lambda, Kinesis, AWS CLI, Auto Scaling, Artifactory, Shell Scripting, Apache servers, JBoss

### Sr. DevOps Engineer–Remote

***Headspace,*** *May’2019-Jan’2021*

* + **Azure** DevOps Engineer for a team that involved different development teams and multiple simultaneous software releases.
  + Provided end-user training for all Subversion (SVN)/GIT users to effectively use the tool.
  + Experience with Application Lifecycle Management tools and Source Control systems, such as GIT, Azure DevOps/VSTS and TFS.
  + Configured VNETs and subnets as per the project requirement also performed PowerShell scripting to do Patching, Imaging, and Deployments in Azure.
  + Migrated on prem to windows azure by building azure disaster recovery environment, azure recovery vault and azure backups from the scratch using power shell script.
  + Employed **Azure** Resource Manager (ARM) to deploy, update and delete multiple resources on Azure and in migrating the on-premises resources to Azure with Azure site recovery (ASR) and Azure backups and created resource group of virtual machines with deployment parameters.
  + Developing and managing Azure infrastructure pipelines, implementing Infrastructure as Code (IaC) practices, collaborating with cross-functional teams, automating provisioning and configuration processes, ensuring smooth deployment and troubleshooting of Azure resources, and optimizing pipeline efficiency and reliability.
  + Deployed and configured **AZURE** AD Connect. Also configured Azure Network Security Groups, Azure Operational Insight and OMS, AZURE Premium Storage, Network Virtual Appliance, Client-Side encryption for Azure storage objects.
  + Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers.
  + Worked with Terraform Templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
  + Created and maintained Amazon Virtual Private Cloud (VPC) resources such as Subnets, Network Access Control Lists (NACL)& Security Groups.
  + Implemented end-to-end DevSecOps practices, integrating AquaSec's container security platform into CI/CD pipeline for secure software releases.
  + Developed and automated security testing using AquaSec tools, reducing manual effort by 40% and ensuring vulnerability assessments.
  + Orchestrated AquaSec's integration into IaC framework, enforcing security compliance for cloud deployments.

Used Terraform in AWS Virtual Private Cloud (VPC) to automatically setup and modify settings by interfacing with control layer.

* + Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes, Cluster, which are responsible for cluster management.
  + Developed build and deployment scripts using ANT and MAVEN as build tools in JENKINS to move from one environment to other environments.
  + Work with application development and operation teams using a variety of automated testing and build, and deploy tools (MAVEN, Ant Nexus, JENKINS, GIT, Selenium, and JUNIT) to resolve issues with transition to new DevOps solution.
  + Integrated Jenkins with various tools like Maven (Build tool), Git (Repository), SonarQube (code verification), Nexus (Artifactory) and implementing CI/CD automation for creating Jenkins pipelines programmatically architecting Jenkins Clusters.
  + Helped in creating a next generation platform using CoreOS Linux with fleet / Kubernetes based on Docker containers running in a Microservices ecosystem on VMWare ESXi.
  + Provisioned load balancer, auto-scaling group and launch configuration for micro services using Ansible.
  + Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
  + Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes & for branching purpose.

#### ENVIRONMENT:

Microsoft Azure, Amazon Web Services (AWS), AquaSec's,IAC, Virtual Private Cloud (VPC), LDAP, Vagrant, Terraform, GIT/SVN, Jenkins, Chef, JIRA, Agile, Red Hat Linux, Docker, PowerShell, Bash, Shell, Python, Django, Kubernetes, Tomcat.

### DevOps Automation Engineer– Orlando, FL

***CHEP****, Mar’2018-Apr’2019*

* + Work with VMware vSphere Client in supporting our Windows 2012 & 2016, Red-Hat Linux Enterprise 7 Server environment for Cloning and Snapshots and deployment automated.
  + Automate the build and release cycles. Be motivated to take independent responsibility and ability to contribute to team.
  + Architecting the implementation of end-to-end automation of the infrastructure.
  + Develop **Ansible** playbooks which are entry points for **Ansible** provisioning, where the automation is defined through tasks using YAML format.
  + Use Ansible and **Ansible Tower** as Configuration management tools to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
  + Automating the storage using ansible for NetApp, Dell EMC, and IBM Storage.
  + Experience in Playbooks related to CIFS share, NFS, ONTAP, QTREE, LUN, Power Maxx etc.
  + Exposed to all aspects of software development lifecycle (SDLC) such as Analysis, Planning, and Developing, Testing, and Implementing Post-production analysis.
  + Automating the process of clustering for SQL database for 1-node, 2-node, 4node.
  + Automated the install of Dynatrace agents using configuration management and deployment tool. Result was that agent install was integrated into server deployment flow eliminating a need to create a separate change request.
  + Integrated Dynatrace with Active directory, Email Servers, and event management
  + Install, troubleshoot, and maintain Ansible Tower server environment.
  + Experience with **Ansible** Tower to manage multiple nodes and manage Inventory for different environments.
  + Created and updated existing artifacts to confluence documentation.
  + Involved in JIRA as defect tracking system and configure various workflows, customizations and plug-ins for Jira bug/issue tracker and integration of Jenkins with Jira/GitHub.
  + Creating Docker images from scratch and customizing them as per the requirement, along with that working on Docker containers, directory structure and removing Docker images
  + Verify data integrity and accuracy.
  + Produced ad hoc reports and documents for senior team members.
  + Work with Chocolatey tool, to install required applications on windows servers.
  + Implemented Terraform modules for deployment of various applications in managing infrastructure.

***ENVIRONMENT****:*

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RedHat Linux, Windows 2012, 2016, Git, Gitlab, Ansible, Ansible Tower, Netapp/EMC, Dynatrace, Docker, VMware vSphere 6, ESXi, vCenter server, Jira, Confluence, SQL, Artifactory, PowerShell Scripting, Shell Scripting, Linux servers, Windows servers

### Server Infrastructure Engineer– Jacksonville, FL

***Availity,*** *Mar’2017-Jan’2018*

* + Worked on Amazon Web Services (**AWS**) services focusing on production ready, load balanced, highly available, and fault tolerant infrastructure.
  + Collaborated with DevOps team, and involved in designing and deploying applications utilizing almost the entire AWS stack (including EC2, Route53, S3, RDS, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling.
  + Creating, configuring, and maintaining user accounts for development, testing and production teams and created roles for EC2, RDS, S3, Cloud Watch, and EBS resources for communication purposes through usage of IAM.
  + Creating AWS cloud formation templates for the migration of applications from on-premises to cloud and for specifying VPC, subnets, EC2 instances, ELB, security groups.
  + Building and configuring EC2 instances on AWS cloud platform and configuring Elastic Load Balancer (ELB) to control traffic for the EC2 and S3 buckets.
  + Involved in creating AWSRoute53 to route traffic between different regions.
  + Designing AWS Lambda functions in python to administer the provisioning, scaling and to automate redundant tasks such as changes to S3 buckets, updating DynamoDB, responding to API calls.
  + Constructing scripts for establishment of new snapshots and deletion of old snapshots in Amazon S3 and worked on setting up the life cycle policies to back up the data from AWS S3 bucket data.
  + Used GIT to keep track of all the changes in source code, analyzed and resolved conflicts related to merging of source code for GIT.
  + Installed and upgraded the Jenkins plugins depending on application requirements in continuous integration pipeline.
  + Integrated Jenkins with SonarQube and used CI/CD system of Jenkins on Kubernetes container environment utilizing Kubernetes and Docker for runtime environments for CI/CD system to build, test and deploy.
  + Extending and developing Ansible plugins and modules for automating AWS management of instances.
  + Maintaining high availability clustered, standalone server environments and refined automation components through scripting and configuration management tool (Ansible) through **YAML** scripts.
  + Creating Docker Images & Docker Containers using Terraform Scripts in HCL syntax format.
  + Used these containers for branching purpose & deploying with Amazon Elastic Beanstalk.
  + Implementing Kubernetes for management containerized applications using its nodes, configuring services and deploying application containers as Pods.
  + Worked with team on Terraform for automating VPC's, ELB's, security groups, SQS queues, S3 buckets and continuing to replace the

rest of our infrastructure through usage of Terraform for management of different infrastructure resources Cloud, VMware, and Docker containers.

* + Responsible for deploying and configuring Rally on hosted instances for issue tracking, workflow collaboration and tool-chain automation.
  + Responsible for monitoring servers, applications and switches using Nagios.
  + Monitoring operational and performance metrics of our AWS resources using CloudWatch.

#### ENVIRONMENT:

AWS, Git, Jenkins, Maven, JFrog, Ansible, Redhat, Centos, windows server, Docker, Kubernetes, Terraform, SonarQube, and Nagios.

### Linux Infra Admin- Hyderabad, IN

***Zoondia,*** August’2014-July’2015

* + Installation, configuration, and upgrade of Red Hat 6 **Linux** operating system
  + Performed regular and system backups.
  + Remote monitoring using Inbuilt utilities.
  + Monitoring of NFS, SAMBA, SNMP and DHCP servers
  + Package management using RPM, YUM and UP2DATE in Red Hat Linux
  + Ability to write Shell & Ruby scripting.
  + Resolved related software and hardware issues.
  + Experience working in VMware ESX (vSphere) 4.x, 5.x hypervisor for virtualization and installed different OS such as Linux (RHEL), Mac, Windows
  + Experienced in all phases of the Software Development Life Cycle (SDLC) with specific focus on the build and release of quality software. Experience in Waterfall, Agile/Scrum.
  + Provided server account management and client connectivity support.
  + Installing software, Upgrade with latest software

#### ENVIRONMENT :

Red Hat Linux, Windows, Shell scripting, Web Servers, WinRm, SSH, Patch Management

**EDUCATION**

University of Alabama-Birmingham, AL (Dec 2016)

Master of Science: Information Technology & Information System

JNTU- HYD, IND (Apr 2014)

Bachelor of Science: Computer Science