**SIVA NAGA SINDHUR KAKANI**

**Sr. Cloud DevSecops Engineer**

Mobile no: **210-827-9852**

Email ID**:** sindhur.devops@gmail.com

Dedicated to optimization, experienced DevSecOps Engineer understands the melding of operations and development to quickly deliver code to customers. Has experience with the Cloud and monitoring processes as well as DevOps development in Windows Mac and Linux systems. Brings a master’s degree in Computer Science and experience working as a DevOps Engineer since shortly after the concept was introduced.

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**PROFESSIONAL SUMMARY:**

• Around **14 years** of experience in IT industry with major focus on Configuration, SCM, Build/Release Management and as **DevOps** operations Production and cross platform environments. 

• Linux/Unix system administrator on **Redhat EL 4.x, 5.x, 6.x, 7.x, 8.x Debian, CentOS, Suse, Oracle Enterprise Linux, FreeBSD, Solaris and VMware V-Sphere ESX/ESXi** environment. Involved in migrating physical Linux/Windows servers to cloud (**AWS**) and testing.

• Experienced in working on **DevOps/Agile** operation process (**Code review, unit test automation, Build& Release automation, Environment, Service, Incident and Change Management**) including various tools.

• Profusely worked on Version control tools like **Subversion, GIT**, **clear case** to track changes made by different people in source code.

• Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It includes Amazon Web Services (AWS), **Ant, Bitbucket, Maven, Terraform, Jenkins, Chef, SVN, GitHub, NexusCVS, Tomcat**, Linux, Atlassian Devops Tools Administration etc.

• Extensive experience in virtualization platforms with hypervisors like **VMware vSphere 5.x, ESX / ESXi 3.x,4.x, 5.x, VMware Workstation, and Hyper-V administration**.

• Configured **Jenkins** as a CI engine to build and promote applications to **QA, UAT** and Staging to **Linux** environments.

• Strong experience on DevOps essential tools like **Chef, Puppet, Ansible, Docker, Kubernetes,** **ELK (ElasticSearch, Logstash, Kibana)**.

• Worked on container-based technologies like **Docker, Kubernetes** and **Openshift** along with development of Microservices architecture using Spring Boot including distributed SSO Authentication and Authorization, Distributed Session Management etc.

● Provided 24/7 technical supports to Production and development environments.

**TECHNICAL SKILLS**

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| **Operating Systems** | Linux (Red Hat 6/7/8, CENTOS), Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000, XP, Windows 7, Ubuntu 12/13/14, Solaris 11/10/9/8. |
| **GitHub profile** | contributor to public HVAC (Harshicorp vault) python module |
| **Cloud Infrastructure** | AWS and Google Cloud |
| **DevOps Tools** | Ansible (Tower), Jenkins, MySQL, terraform, Git/GitHub, SVN repo, conftest, OPA, docker, kubernetes, GitLab, HashiCorp Vault |
| **Networking** | TCP/IP, NIS, NFS, DNS, DHCP, SMTP, FTP/SFTP, HTTP/HTTPS, NDS, Cisco Routers |
| **Database Servers** | Postgress, Oracle, SQL Server, MySQL, NoSQL, DynamoDB. |
| **Web/Application Servers** | Web Logic Application Server 9.x, 10.x, Apache Tomcat 2.0.x, JBOSS 4.x/5.x, Red Hat. |
| **Programming Languages** | Shell scripting, Perl, Python, yaml, groovy, powershell, json format, rego |
| **Virtualization** | VMware Client, Windows Hyper-V, vSphere 5.x, Datacentre Virtualization, Virtual Box, KVM, Power VM |
| **Operating Systems** | Linux (Red Hat 6/7/8, CENTOS), Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000, XP, Windows 7, Ubuntu 12/13/14, Solaris 11/10/9/8. |

**CERTIFICATIONS:**

• Google Certified Professional - Cloud Architect (GCP)

• Architecting Microsoft Azure Solutions

• AWS Certified DevOps Engineer - Professional

**PROFESSIONAL EXPERIENCE**

**Client: Capital One, Philadelphia, PA July 2021 – Present**

**Role: DevSecops Lead**

**Responsibilities:**

* Building the AWS Infrastructure using VPC, EC2, S3, Route 53, EBS, Security Group, Auto Scaling, and RDS in CloudFormation.
* Handled storage over cloud with EBS and S3 policies, performed capacity planning and designing, OS upgrades and hardware refresh.
* End to end deployment ownership for projects on Amazon AWS. This includes Python scripting for automation, scalability, build promotions for staging to production etc.
* Tested high availability of AWS-RDS-MySQL database by simulating failover from the primary database to read replicas and hence promoting read replica to the primary.
* Designing and implementing CI (Continuous Integration) system: configuring Jenkins servers, Jenkins nodes, creating required scripts (Perl & Python), and creating/configuring VMs (Windows/Linux).
* Automated Build/Package/ jobs using groovy scripts by using Jenkins JobDSL
* Wrote JUnit test cases for unit, integration, and functional tests, run automatically by Hudson/Jenkins in the builds triggered by each push to GIT.
* Experience working on DockerHub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations
* Launching and Debugging Docker Container, Installing/setup Docker host in environment, Integrating Docker and Mesos to monitor container status.
* Used Maven as a build tools on .net projects for the development of build artifacts on the source code.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of Open Stack Nodes and Test Playbooks on AWS instances using Python.
* Generated and maintained the Project SCM plan and created hooks and managed permissions on the branches for GIT.

**Environment:** .NET, AWS, Teamcity , Octopus, Docker, Jenkins, IIS, Selenium, ANT, Shell, bash, UNIX, GIT,TFS, Python, JIRA, Selenium, Powershell Scripting.

**Cardinal Health, Columbus, OH Nov 2019 to Jun 2021**

**Role: Sr. DevSecOps Engineer**

**Responsibilities:**

• Designed a framework for AWS and GCP Environment. This will automatically remediate or take actions on the **security signatures.**

• Built python scripts for the security framework and deployed them successfully using AWS **lambda** functions and GCP **Cloud Functions**. Built monitoring dashboards using Splunk and created alerts to notify the team when those events occur.

• Audited the GDPR, SOX, HIPAA applications using **Redlock** and communicated the application team solution owners on the remediation steps.

• Worked on **Terraform** as IAAS (Infrastructure as code) to automate the process to spin up the services in the cloud platforms.

• Wrote terraform modules for complete architecture in **GO** language.

• Responsible for installation, configuration and maintenance of **Network security scanning** tools to support business needs.

• Deploy Google Compute Engines and use Google services to work on cloud tools like **Vault, Splunk**, etc. on various database integrations and functionalities.

• Analysis of the current **Venafi** Trust Protection Platform 15.4 deployment across environments (DEV/QA/PROD) and its dependencies.

• Deployed **GLB (SSL proxy, HTTPS)** and **ILB (TCP/UDP)** load balancers for several applications.

• Integrated **Jenkins** with **HashiCorp Vault** for storing secrets.

• Engage different vendors from **Velostrata/ Risc/VMWARE/AWS/GCP** and troubleshoot issues in timely manner and document them in team’s SharePoint sites.

• Implement different Devops tools like **Ansible, Jenkins, Pivotal cloud foundry, Docker** for Patching, configuration management, server less computing, and code deployment.

• Created AWS **Cloud formation templates** to automate deployments in AWS and Deployment manager in GCP.

• Worked with **Venafi** vendor on the resolution of issues that are identified during migration

• Installed **Trend Micros** on Linux/windows servers and implemented policies to protect servers hosting external client accessible websites.

• Migration of F5 on-premises load balancers to AWS ELB and GCP load balancers.

• Conducted thorough unit testing of **Venafi** platform after migration - Admin UI, Browser compatibility, Certificate Enrollment, out of box & custom reports, Approval workflow process post merging .

**Fifth Third Bank, Cincinnati, OH Nov 2018 to Nov 2019**

**Role: DevOps Lead, Catalyst**

**Responsibilities:**

• Structured Cloud Native Re-engineering project work streams within a larger **Agile, DevOps** and **Cloud Transformation engagement** and work directly to make Cloud Native DevOps work for them.

• Lead a cross-functional set of cloud native engineers, devops engineers and cloud infrastructure engineers to modernize and migrate legacy applications into cloud native devops engineered technology solutions

• Designed and implemented cloud native architectures, **leveraging micro services**, public cloud services, and container/**PaaS** based development platforms Implemented and support automation of application provisioning, **migration**, and configuration management.

• Worked on **Terraform** as IAAS (Infrastructure as code) to automate the process to spin up the services in the cloud platforms.

• Wrote terraform modules for complete architecture in **GO** language.

• Entire **IAAS** private repo is handled by me.

• Reviewed lots of code in **terraform** committed by different team members in the network.

• Worked on **OpenShift** and provided the **leadership** for the public and private cloud engineering teams.

• Designed and configured **Azure Virtual Networks** (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.

• Wrote Python Automation scripts for **Hashicorp Vault, Tenable**, Github, Service Now through REST API.

Environment: Google Cloud, OpenShift, AWS, MS Azure, shell scripts, GIT, Docker, Terraform, GO, Containerization, Chef, Jenkins, Groovy, Scala, Java, DynamoDB, Python, Microsoft Windows Azure, Windows server, Windows PowerShell, Microsoft Azure Storage .

**PWC, Tampa, FL. April 2018 to Oct 2018**

**Role: DevOps Lead, Advisory**

**Responsibilities**

• Owned and managed DevOps tools: **Artifactory**, **GitHub**, **Jenkins**, **SonarQube**, **Ansible**. Includes design, installation, configuration, front & backend administration, upgrades, documentation, **training**, and ongoing support.

• Worked as a software deployment lead coordinating DevOps resources. This involves working with 50 different systems and performing deployments in each environment (Dev, Project Test, ITE, Staging, Production).

• Worked with Systems **Integration** Team to migrate applications into TI provided **DevOps** environments, either cloud or on-premise data center. Reviewed systems migration plans and requirements, and supported application migration efforts, including **data migration**.

• Implemented and support automation of application **provisioning**, **migration**, and **configuration** management.

• Implemented and support Continuous Integration in coordination with the application teams.

• Managed the DevOps implementation of the application infrastructure requirements documented by the Systems Integration Team, including (but not limited to) compute resource, **high availability, and disaster recovery** requirements.

• Lead solutioning analytics on the Cloud using Azure PaaS environment with **Python** and **Machine** **Learning** Services.

• Drive Data Science Life Cycle processes: Model deployment and monitoring; **Operationalization** for batch and real-time analytics services.

• Container based support for On-Prem and **Cloud deployment**.

• Identification and acquisition of tools/technologies to support the **analytics** environment.

Environment: Google Cloud, MS Azure, shell scripts, GIT, Docker, Chef, IntelliJ, Jira, Ansible, Maven, Jenkins, Puppet, Groovy, Scala, Java, ArangoDB, PGAdmin, DynamoDB, Python, Windows, and Linux environment.

**Royal Caribbean Cruises, Miami, FL. June 2017 to March 2018**

**Role: Devops/AWS Lead**

**Responsibilities:**

• Worked on **Amazon AWS EC2** cloud services for installing, configuring and troubleshooting on various Amazon images like Amazon Linux AMI, Red Hat 4.x, 5.x, 6.x, 7.x, Ubuntu 12.x, 13.x, 14.x, and 15.x.

• Building massively scalable network-oriented software for the Elastic Load Balancing (ELB) service.

• Configured **S3** versioning and lifecycle policies to backup files and archive files in Glacier.

• Maintained DNS records usingRoute53. Used Amazon Route53 to manage DNS zones and give public DNS names to elastic load balancers IP's.

• Used **Amazon RDS** Multi-AZ for automatic failover and high availability at the database tier for MySQL workloads. Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console.

• Launched Database for **MySQL 5.x** and Oracle 11.x using RDS in multiple Available zones, have setup monitoring for CPU Utilization and limited DB connections by implementing alarms using **Cloudwatch**.

• Used Cloud formation and launch configurations to automate the repeatable provisioning of AWS resources for applications.

• Used **Amazon IAM** to grant fine-grained access to AWS resources to users. Also managed roles and permissions of users to AWS account through IAM.

• Used **CloudFront** to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.

• Configured secure VPC through private and public networks in AWS. Used AWS command line client and management console to interact with AWS resources and APIs. Setup Auto-scaling groups based on memory and CPU to adapt to unforeseen spikes without having an outage or needing manual intervention.

• Created monitors, alarms and notifications for EC2 hosts using CloudWatch. **AWS Import/Export** accelerates moving large amounts of data into and out of AWS using portable storage devices for transport. In addition, configured the Code Quality Tools like Find Bugs and **SonarQube** for Spring Boot applications in Jenkins.

• Experience in deploying and monitoring applications on various platforms using Elastic Beanstalk. Used **AWS BeanStalk** for deploying and scaling web applications and services developed with Java, PHP, **Node.js, Python, Ruby, and Docker** on familiar servers such as Apache, and IIS.

Environment: AWS, GIT/Gerrit, MAVEN, JENKINS, JIRA, VAGRANT, PUPPET, ANSIBLE, CoreOS.

**Yale University, New Haven, CT July 2015 – June 2017**

**Role: Sr. DevOps/Cloud Engineer**

**Responsibilities:**

• Involved different development teams and multiple simultaneous software releases.

• Worked on creating ANT scripts to build and deploy **Oracle ADF and Oracle SOA** based enterprise applications to WebLogic Application Servers.

• Developed **Puppet** scripts for an automated server provisioning and Docker images for isolation, reducing the time between provisioning and deployment from over 3 hours to less than 10 minutes.

• Experience in maintaining, executing, and scheduling build scripts to automate **DEV/QA/UAT** builds.

• Infrastructure virtualization and app isolation using Docker.

• Familiar in using monitoring tool **Artifactory.**

• Implemented a Continuous Delivery pipeline with **Docker, Jenkins and GitHub and AWS AMI's**, whenever a new GitHub branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new **AWS ECS / Docker** container from it, The Docker container leverages Linux containers and has the **AMI** baked in. Converted our staging and Production environment from a handful AMI's to a single bare metal host running Docker.

Environment: Tortoise SVN, Jenkins, Java/J2EE, ANT, MAVEN, GIT, Zabbix, OpenStack, Azure, Amazon EC2, Amazon Web Services, Puppet, Python Scripts, Shell Scripts, Sonar, UNIX, JIRA, ESX, BMC BladeLogic.

**Texas Parks and Wildlife, Austin, TX. Aug 2014 – June 2015**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

• Responsible for design and maintenance of the GIT Repositories, views, and the access control strategies.

• Hands on experience in Amazon Web Services AWS provisioning and good knowledge of AWS services like **EC2, S3, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS** etc and **Azure**.

• Worked in setting up the repos to various projects in **GIT**.

• Involved in migration from **SVN** to **GIT** repos and worked with Linux sys admins for the same.

**• Udeploy** is used for continuous integration, fast feedback and **udeploy (urban(code))** pipeline is a multi-tool pipeline.

• Developed **Linux, UNIX, Perl and Shell Scripts** for manual deployment of the code to various environments.

• Monitoring **- Nagios, artifactory, Custom checks, Zabbix, App Dynamics, Splunk**.

• Hands on experience in monitoring EC2 instances using Nagios.

• Configured Nagios to monitor EC2 Linux instances with **puppet** automation.

• Configured and monitored distributed and multi-platform servers using Nagios.

• Managed the software configurations using Enterprise Chef.

• Setup the **Chef Workstation, Chef server and chef nodes**.

• Created the ANT scripts and extension of existing ANT scripts for deployment of applications to HUDSON.

• Used ANT and MAVEN as a build tools on java projects for the development of build artifacts on the source code.

Environment: Java/J2ee, Subversion, Maven, Selenium, Jenkins, Zabbix, GIT, SVN, Chef, cloud watch, Azure, **AWS** (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Shell Scripting, Ruby, PUTTY, CONFLUENCE, SOA.

**Amway, Grand Rapids, MI. Nov 2012 - Aug 2014**

**Role: DevOps Engineer**

**Responsibilities:**

• Conceived, Designed, Installed and Implemented Chef configuration management system.

• Created and updated Chef manifests and modules, files, and packages.

• Developed automation scripting in **Ruby (core)** using Chef to deploy and manage Java applications across Linux servers.

• Worked on Version control setups like GIT and integration tools Jenkins

• Installed, Configured and Administered **Hudson/Jenkins** Continuous Integration Tool.

• Developed automation framework for Application Deployments to the cloud environments.

• Developed shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.

• Deployed the Java applications into web application servers like JBoss.

• Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.

Environment:Ubuntu, Chef, Maven, Nagios, Ruby, Shell, VMware ESXi, Java, Ant, Jenkins, SVN, Apache Webserver, JBoss, Apache JMETER, GIT, Windows, JIRA.

**Knowledge Universe Technologies, Portland, OR. June 2011 - Oct 2012**

**Role: Linux Administrator**

**Responsibilities:**

• Installation, configuration and maintenance Red Hat Enterprise Linux 5.

• Installed Operating System and configured kernel parameters for Linux/Unix servers.

• Worked on creating, maintaining and troubleshooting Disk partitioning, LVM and file management.

• Worked on configuring TCP/IP, network interface, assigning static routes and hostnames.

• Created shell scripts for automating the daily maintenance and update processes in the production environment.

• Archive management for files and directories employing the TAR tool and compression of files using the gzip and bzip2.

Environment: Red Hat Enterprise Linux 5, EMC Servers, OTRS, BASH shell.

**St Mary’s University, San Antonio, TX. Oct 2009 - May 2011**

**Role: Linux System Administrator**

**Responsibilities:**

• Installation, configuration and Operating System upgrade on, **Red Hat Linux and Sun Solaris**.

• Maintained maximum uptime and maximum performance capacity for Enterprise Production, **QA**, and UAT/Staging.

• Experience in **VMWARE ESXi 4/5** and vSphere and managed VM resource upgrades, Cold migration of VM from once vCenter to other.

• Incident management for Unix Servers (**Solaris, Linux**).

• Installation, configuration of Oracle RAC for multiple computers to use single database.

• Supported Oracle **10g RAC**.

• Configuring Monitoring rules for the server environment.

Environment: Solaris 9/10, TFS, Red Hat Linux 4/5, NAGIOS, Veritas NetBackup, Bash Scripting, Veritas Volume Manager, web servers, LDAP directory, Active Directory, Web logic servers, Apache, Tomcat servers, WebSphere application server.

**EDUCATION:**

Master’s degree in computer science and engineering.