

Srikanth Rao

Senior Cloud Engineer Devops

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**PROFESSIONAL SUMMARY:**

* **Over 15** years of experience in IT industry **and over** 9 years experience as **Cloud Engineer** (Azure, AWS), **DevOps**, **DevSecops,** **Containers, Configuration management, Infrastructure automation, Continuous Integration and Delivery**(CI/CD).
* Expertise in Architecting and Implementing **Azure Service** Offering, such as **Azure DevOps**, **Azure App Services, Azure Container registry, Azure Kubernetes Service, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions(FaaS), Azure Service Fabric, Azure Event Grid, Azure KeyVault, Azure Application Gateway, Azure PowerShell and Azure Cli commands.**
* 6+ years hands on experience in **Docker** EE and Kubernetes.
* 3+years of experience with **administering** various **Middleware** technologies like **Jboss, Apache tomcat, Apache httpd.**
* Expert in implementing effective strategies for N - Tier application development in both **Cloud and On-premises** environments. Experience in dealing with **Unix/Linux and Windows** server administration.
* Proficient in creating **Docker images**using **Docker File**, worked on **Docker container**snapshots, removing images, and managing **Docker volumes**and implemented **Docker** automation solution for **CI/CD** model.
* Extensive experience in installing, configuring and administering **Jenkins CI**tool on Linux machines and used **Jenkins Pipelines**to drive all Microservices builds out to the **Docker Registry**and then deployed to **Kubernetes,** Created Pods and managed using **Kubernetes**.
* Experience in setup of **docker images scanning** and **identify security vulnerabilities** and addressing.
* Developed an end-to-end **Continuous Integration Pipeline** using Git, **Jenkins** for enabling containerized based micro services using **Kubernetes** & **Docker.**
* Skilled with **Python, Bash/Shell, PowerShell, Perl, JSON, YAML**. Developed **Shell** and **Python** Scripts used to automate day to day administrative tasks and automation of the **build** and **release process**.
* Experience in writing **Infrastructure as a code**(IaC) in **Terraform, Azure resource management, AWS Cloud formation.**Created reusable **Terraform modules**in both Azure and AWS cloud environments.
* 5+ year of Experience in Infrastructure Development and Operations involving **AWS Cloud Services, EC2, EBS, VPC, RDS, SES, ELB, Auto scaling, CloudFront, Cloud Formation, Elastic Cache, Lambda,** CloudWatch**, API Gateway, Route 53, Cloud Watch, SNS.**
* Expertise in configuring the **monitoring**and **alerting tools**according to the requirement like **Prometheus**and **Grafana**, setting up **alerts**and **deployed multiple dashboards**for individual applications in **Kubernetes**.
* Experienced in**Ansible** Tower and developed **Ansible** playbooks, roles for managing the docker installations and OS configuration files deploying in Linux environment.
* Expertise in **developing and implementing** large scale **installation standards** and automated tools for Oracle/Weblogic/Jboss middleware suite of Products.
* **Extensive** experience inadministration and support of several **Application servers** like **Jboss**, **tomcat** and web servers **Apache**.
* Experience in scripting languages **PHP, Shell and Python**.
* Strong experience with Web servers such as **Nginx, Apache httpd, Jboss EWS, Microsoft IIS.**
* Expertise in SSL Certificates installation/configuration/maintenance on nginx, Apache, Jboss, Tomcat, Weblogic Servers.
* Hands-on experience in version control tools like Subversion, TFS, GIT, Bit bucket, CVS, Perforce Version wherein experienced with tagging, branching on platforms like Linux/Windows and used Source code management client tools like, GIT Bash, **GitHub**, GIT-GUI and other CLI applications etc. Designed and implemented datacenter **Failover solutions** based on **DNS, F5** and webservers.
* **Designed** and **Implemented DR complaint** web application architectures that comprise DB Servers, application servers, web servers, **internal load balancers** and **global load balancers** across **multiple datacenters**.
* Strong experience with **automation** using UNIX Shell scripts. This involved building several tools for installation, configuration and deployment different web, application and SOA products
* Involved in the design and **Capacity planning** for achieving scalability and high Availability for critical applications.
* Strong experience with **Monitoring Tools** like AppDynamics, Nagios, ICINGA2, JON, CA Wily Introscope, HP Site scope, ELK, Splunk, Solarwinds & Zabbix.
* Worked on Redhat **Openshift container management tool.**
* Working Knowledge and good experience on databases like Microsoft SQL, **MySQL**, **Oracle**, **Postgres** and **NoSQL** databases like **Cassandra**, **DynamoDB** and **MongoDB**.
* Experience in resolving the issues including Network components like **BIG IP**, **Firewalls** and **Siteminder**.
* **PHP**: Configuration, security, object-oriented programming, creating RESTful web services.
* Thorough knowledge of different **RDBMS** like Mysql, SQL Server and Oracle.
* Written **PL/SQL** programs**, procedures** on mysql databse. Performed performance tuning.
* Experience in working on front end design of web interfaces using **JavaScript, jQuery UI, JSON,** Prototype, AJAX, CSS and DOM.
* Custom **LAMP web development** using Zend framework
* **Remedy Administrator**, Experienced in designing forms using menus, filters, active links and escalation in windows and UNIX environments.
* Did Adhoc one time reports and scheduled reports using SQL, PL/SQL queries**.**
* Excellent written and verbal communication skills, strong organizational skills and hard-working team player.

**TECHNICAL SKILLS:**

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| Azure Services | Azure DevOps, AKS, ACR, Azure Storage, Azure KV, Azure Databases, Azure Networking, Azure Event Grid. Azure App Services. |
| AWS services | EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud watch, Cloud trial, SNS, SQS, EBS, Route 53 |
| Configuration management | Ansible, Remedy |
| Containerization Tools | Docker, Kubernetes, Openshift. |
| Continuous Integration Tools | Jenkins, Hudson, Bamboo, rundeck |
| Build Tools | Maven, Ant, Gradle, SaltStack |
| Version control tool | GIT, GitHub, Git Lab, Bitbucket, Subversion (SVN). |
| Artifactory repositories | Docker Hub, Artifactory, Nexus |
| Bug Tracking Tools | Confluence, Jira, Bugzilla, Remedy |
| Monitoring Tools | Nagios, ICINGA2, ElasticSearch(ELK), Splunk, AppD, Grafana, pnp4nagios |
| Databases | Oracle, MS SQL, My SQL, NoSQL, Cassandra, MongoDB, DynamoDB REDIS, Postgres. |
| Scripting tools | PHP, Python, Perl, Bash, Java Script, Ruby, Power shell. |
| Web/Application Servers | Weblogic, WebSphere, Jboss, Apache, Nginx, Tomcat, IIS. |
| Operating Systems | Windows, RHEL, UNIX, CentOS, Ubuntu, Fedora, Debian. |
| IDE Tools | Eclipse IDE, Netbeans, Notepad++ |

**PROFESSIONAL EXPERIENCE:**

**CLIENT: Citizens Bank, Providence, RI July’ 2022 - Present**

**ROLE: Sr Azure Cloud Engineer/ Devops Engineer**

* Monitored the **Azure Resources** using **Azure Monitor** and **Web Apps** for **Application Insights** and used **Grafana Monitor Tool** to troubleshoot services, root cause analysis and security solutions. Extensive experience in using **Azure Artifactory** to store the deployable artifacts (war & ear) generated from source code.
* Developed multiple custom re-usable **Azure resource Manager (ARM)** templates and **Terraform** code of various Azure infrastructure services/resources.
* Performed data transformation using **Azure Data Factory** and Azure Databricks.
* Have good experience working with **Azure BLOB** and Data Lake storage and loading data into Azure SQL Synapse analytics.
* Created **Datadog** dashboards for **monitoring** and migrated Splunk dashboards.
* Implemented **Docker enterprise edition (EE)** clustered architecture with mix of Linux and Windows nodes.
* Implemented **dynamic docker volumes** using netapp trident plugin for applications data persistency.
* Integrated **Azure VNet** with on-prem/data-center environment using IPsec VPN and **express routes.**
* Developed methodologies for **cloud migration**, implemented best practices and developed recovery plans for applications and databases.
* Troubleshooting Active Directory, and **Azure Active Directory** issues relating users and group accounts in a Hybrid Environment.
* Deployed Azure AD Connect (for identity migration from AD), virtual machines (VMs) and Cloud services (PaaS) into secure VNets and subnets.
* Configured Cloud services e.g., Storage Accounts, Site - Site **VPN, ExpressRoute, DNS servers**.
* Worked on **Chef configuration management tool**.
* Hands on experience in Azure Development, Azure web application, App services, Azure storage, Azure SQL Database, Virtual machines.
* Implementation of **Azure Cloud Services (PaaS & IaaS), Application Insights, Azure Monitoring, Hashicorp Key Vault, and SQL Azure.**
* Worked on Redhat **Openshift container management tool.**
* Good understanding of SDLC with expertise on software Build/Release, Configuration management.
* Implemented **docker images security vulnerabilities scanning** in docker enterprise edition and address the same.
* Integrated **whitesource** agent for **docker images security vulnerabilities scanning** in Azure Container registry and Azure DevOps, guided developers to fix/patch the images.
* Experience in creating multiple CI Build Pipelines and CD pipelines in Azure TFS/DevOps Server.
* Experience in tools like **git**, **Azure TFS**, **Azure DevOps**.
* Implemented and integrated various DevOps tools to build **CI/CD pipelines** for enterprise-based applications in cloud and on-premise infrastructure too.
* Created multiple **ansible playbooks** and roles to for end-to-end docker-ee cluster install and upgrades.
* Worked closely with development team and SQA team for product releases.
* Worked on **Build & Release** for technologies like Java.
* Migrated multiple on-premise physical windows legacy applications to docker containers-based applications.
* Designed and implemented layer 7 routing via single F5 VIP to expose multiple applications endpoints.
* Developed **python scripts** to automate deployment of multiple docker microservices to docker clusters using TFS pipelines.
* Implemented Prometheus, Grafana docker infrastructure monitoring system to collect Business, Application, Service based metrics.
* Demonstrated Strong knowledge and Implemented **Iaas**, **Paas** and **Saas** models in **Azure Cloud**.
* Implemented Azure technologies **Azure DevOps**, **Azure Web Services**, **Azure App Services**, **Azure Container registry**, **Azure VM’s, Azure Key Vault, Azure PostgreSQL, Azure Redis, Azure CosmosDB(Cassandra), Azure Networking & Application Gateway, Azure Active Directory, Azure Event Grid, Azure LogicApps, Azure Powershell and Azure Cli.**
* Managed **Kubernetes** charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Experience in az-cli, Az PowerShell commands to manage Azure infrastructure and resources, deployments.
* Coordinated, designed and implemented Azure cloud **security** guidelines with Enterprise cloud security & architecture team.
* Responsible to identify **security vulnerabilities** in Azure cloud infrastructure resources and addressing the same with priority.
* Used SVN for branching, tagging, and merging.
* Used **Ansible**to Setup/teardown of **ELK**stack (Elasticsearch**, Log stash, Kibana**) and troubleshoot the build issues with **ELK**and work towards the solution.
* Participated in Project planning sessions, Daily scrum calls to identify DevOps dependencies and resolve in timely fashion to meet Sprint Goals and deadlines.

**Environment: Docker, Kubernetes, OpenShift, Azure, AWS, Jboss EAP 5.x/6.x/7.x, Apache tomcat 7.x/8.x/9.x, Nginx, OpenDJ, Oracle WebLogic 11g/12c, Red Hat Linux 5.0, Apache, Tomcat, Solaris 10, Oracle databases 10g/11g/12c, JDK 1.5/1.6/1.7/1.8,BIGIP F5, LDAP, Shell Scripting, Python.**

**CLIENT: American Unit Inc/PCCW Global, Herndon, VA Nov’ 2016 – July’ 2022**

**ROLE : Sr DevopSecops /Cloud Engineer**

* Extensive uses of **Azure App Services** to deploy containers mechanism with Auto Scaling feature to scale the capacity of App Service plans across multiple regions to distribute incoming high traffic for the application
* Implemented **Docker enterprise edition (EE)** clustered architecture with mix of Linux and Windows nodes.
* Implemented **dynamic docker volumes** using netapp trident plugin for applications data persistency
* Experience in **Iac(Infrastructure as code), Terraform**.
* Deployed Infrastructure pipelines and automated with Terraform script.
* Worked on Azure services such as Azure VMs, Azure App Service, Azure Functions, and Azure SQL Database.
* Contributed to the development of support tools and processes to improve the customer experience.
* Good understanding of SDLC with expertise on software Build/Release, Configuration management.
* Implemented **docker images security vulnerabilities scanning** in docker enterprise edition and address the same.
* Integrated **whitesource** agent for **docker images security vulnerabilities scanning** in Azure Container registry and Azure DevOps, guided developers to fix/patch the images.
* Experience in creating multiple CI Build Pipelines and CD pipelines in Azure TFS/DevOps Server.
* Worked closely with development team and SQA team for product releases.
* Worked on **Build & Release** for technologies like Java.
* Migrated multiple on-premise physical windows legacy applications to docker containers-based applications.
* Designed and implemented layer 7 routing via single F5 VIP to expose multiple applications endpoints.
* Developed **python scripts** to automate deployment of multiple docker microservices to docker clusters using TFS pipelines.
* Implemented Prometheus, Grafana docker infrastructure monitoring system to collect Business, Application, Service based metrics.
* Demonstrated Strong knowledge and Implemented **Iaas**, **Paas** and **Saas** models in **Azure Cloud**.
* Managed **Kubernetes** charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Experience in az-cli, Az PowerShell commands to manage Azure infrastructure and resources, deployments.
* Managed Azure infrastructure including Virtual Networks, Subnets, Network Security Groups, and ExpressRoute.
* Worked on Azure services such as Azure VMs, Azure App Service, Azure Functions, and Azure SQL Database.
* Developed and maintained **scripts using PowerShell** and Python to automate deployment and management of Azure resources.
* Monitored the performance and availability of applications and infrastructure using **Azure Monitor and Log Analytics**.

**Environment: Docker, Kubernetes, Jboss EAP 5.x/6.x/7.x, Apache tomcat 7.x/8.x/9.x, Nginx, OpenDJ, Oracle WebLogic 11g/12c, Red Hat Linux 5.0, Apache, Tomcat, Solaris 10, Oracle databases 10g/11g/12c, JDK 1.5/1.6/1.7/1.8,BIGIP F5, LDAP, Shell Scripting, Python.**

**CLIENT: American Unit Inc/PCCW Global. Sept’ 2012 – Nov’ 2016**

**ROLE : DevOps/Cloud Engineer**

* Implemented and integrated various DevOps tools to build CI/CD pipelines for enterprise-based applications.
* Implemented Azure cloud based Azure Web Services, Azure App Services, Azure Logic Apps, Azure Event Grid.
* Improved process of building and delivering the infrastructure environments in Azure cloud using Azure resource templates (ARM) and Azure DevOps release Pipelines.
* Built multiple CI and CD pipelines using **Azure DevOps** and **TFS** on-premise infrastructure to deploy applications quick and reliably with Unit tests integration.
* Delivered ansible playbooks to install and configured multiple on-prem TFS docker dedicated build agents to build container images.
* Extensive uses of **Azure App Services** to deploy containers mechanism with Auto Scaling feature to scale the capacity of App Service plans across multiple regions to distribute incoming high traffic for the application.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling, **Kubernetes** infrastructure and **docker** based micro service container orchestrated systems.
* Deployed **Kubernetes** Cluster on-premise environments with master/worker architecture and wrote YAML files to create Kubernetes Objects (pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces, Config Map, Secrets)
* Created and maintained enterprise based custom **docker** images for tomcat, jboss application tiers.
* Migrated OAUTH Pingfederate Software from physical installation to docker based installs and deploys.
* Installed and managed **Jenkins**, **GIT**, **Artifactory**, **SVN** tools.
* Developed **python scripts** to migrate applications, configurations, validate connectivity from older Jboss versions to latest jboss versions.
* Expert in Setup/Configure Atlassian Products like Bitbucket, Jira and Confluence.
* Closely worked with vendors in migrated backend data tier from Oracle database to LDAP **OpenDJ** and dockerized deployment of same in lower environments.
* Worked with various teams in provisioning infrastructure required for building new environments.
* Migrated customer facing legacy authentication systems to OAUTH based IDM systems using DevOps tools.
* Implemented enterprise ELK (Elasticsearch, Logstash, Kibana) log management, monitoring and reporting systems.
* Migrated mediawiki docs to Confluence, SVN to Bitbucket and integration with Jira for Agile Workflows.
* Designed and Implemented enterprise log archiving solution across multiple platforms and systems.
* Support both Blue/Green deployments to keep Application Up on Jboss EAP 7 Platform systems.
* Designed and implemented datacenter **Failover solutions** based on **DNS, F5** and Nginx webservers.
* Consolidated legacy monitoring systems and migrated Legacy Nagios/Icinga based monitoring to more feature robust ICINGA2 monitoring system.
* **Member of Weekly 24x7** on-call rotation for production Support and Troubleshooting problems related to Production systems and infrastructure.

**Environment: Docker, Kubernetes, Jboss EAP 5.x/6.x/7.x, Apache tomcat 7.x/8.x/9.x, Nginx, OpenDJ, Oracle WebLogic 11g/12c, Red Hat Linux 5.0, Apache, Tomcat, Solaris 10, Oracle databases 10g/11g/12c, JDK 1.5/1.6/1.7/1.8,BIGIP F5, LDAP, Shell Scripting, Python.**

**CLIENT: PCCW Global, Herndon, VA Jul’ 2009 – Aug’ 2012**

**ROLE : Python Developer/Database Admin**

* Use of **PHP My Admin** to handle the administration of **MYSQL** over the World Wide Web.
* Developed module using **Python, PHP 5.x and SOAP**.
* Developed **UI using HTML 5, XHTML CSS 3, JavaScript, XML, XSLT, jQuery JSON and AJAX**.
* Built **PHP and CSS** system for controlling text display issues cross-platform and cross browser.
* Involved in weekly status updates in showing up the progress of the project.
* Provided client side validations and dynamic functionality using **jQuery, JavaScript and XHTML**.
* Followed Agile methodology for designing and development for each sprint.
* Developed widgets, Drag & drop functionality with **jQuery** UI library.
* Wrote complex **queries** to retrieve unique datasets using inner and outer joins.
* Prepared requirements spec and test guides and performed **unit testing**.
* Used **SVN** for version management.
* Used Firebug for **debugging** purposes.
* Installation and configuration of **SQL server**.
* Experience in taking backups (full and incremental) and restoration of backups when needed using SSMS.
* Implemented log shipping, mirroring in **sql server**.
* Monitoring and maintenance of transaction log.
* Performing transaction **log backups**.
* **Installing service packs**.

**Environment: PHP, Perl, Apache, Linux, MySQL, SQL Server, jQuery UI, Zend Framework, Drupal, Shell Scripting, 6/7, AJAX, JavaScript, XHTML, CSS, Crystal Reports, DB Designer, MS-Visio, MS-Excel, MySQL Query Browser, Windows Server 2003, SSH. Crystal Reports XI, Business Objects Enterprise 10, Remedy ARS 6.x/5.x/4.5.x, JBOSS, MAVEN, API Gateway and FireBug**.

**CLIENT: PCCW Global, Herndon, VA June’ 2008 – June’ 2009**

**ROLE: Database Admin/ Remedy Admin**

* Administrative tasks such as performance tuning, backup and optimizing workflow by using **SQL**, creating user accounts.
* Integration Analyst responsible for Systems Engineering, Designing, Developing, Testing, Training, and Implementing specifications provided by the client.
* Solid experience in **ITSM Suite 6.x/5.x/4.5.x**, Migrator 5.x, Master ARSuite, AR Schema, Oracle & SQL Server.
* Involved in requirement analysis, Business analysis, Used-Case analysis, change management and configuration management
* Remedy Administrator, Experienced in designing forms using menus, filters, active links, and escalations in Windows and UNIX environments.
* Wrote **shell scripts** for handling reports and for scheduling jobs.
* Customized the application as per the requirements using Active links, Filters, Escalations and Menus.

**Environment: MySQL, SQL Server, jQuery UI, Zend Framework, Drupal, Shell Scripting, 6/7, AJAX, JavaScript, XHTML, CSS, Crystal Reports, DB Designer, MS-Visio, MS-Excel, MySQL Query Browser, Windows Server 2003, SSH. Crystal Reports XI, Business Objects Enterprise 10, Remedy ARS 6.x/5.x/4.5.x.**

**CLIENT: Apex Covantage, Herndon, VA**

**ROLE: Remedy Admin Nov’ 2007 – May’ 2008**

* Configured **Remedy ARS** Server 5.x, (Help Desk), Mid-Tier, Web Server on UNIX Platform.
* Configured the Helpdesk application using configuration manager.
* Implemented **SLA** module to get the availability percent of each group and also to get the response & resolution time for each group.
* Designed an application that uses the Remedy **Java** **API** to interact with the external applications to import data.
* Wrote **shell scripts** for handling reports and for scheduling jobs.
* Customized the application as per the requirements using Active links, Filters, Escalations and Menus.
* Designed menus and active links using **SQL** queries and calling Sybase stored procedures.
* Provided web interface for Remedy Helpdesk & Change Management and configured the web using Configuration Manager.
* Troubleshot performance of the Remedy database using ARLog and optimizing user queries
* Worked with Remedy Flashboard to create graphical information of events and SLAs data
* Documented in detail about the various processes in the system to aid users.

**Environment: Remedy 5.x, DSO, Help Desk 5.x Change Management 5.x, SLA 5.x, Sybase 11.x, UNIX, AR Utilities 5.x, Migrator 5.x, Visio, Java, log4j, Apache.**

**CLIENT: YAHOO Inc, Burbank, CA**

**ROLE: Remedy Admin May’ 2007 – Nov’ 2007**

* Requirement gathering and analysis.
* Upgraded Server and mid-tier from **5.x to 6.x**
* Installed and configured to ARS 6.x with Mid-Tier (New Atlanta) and Email Engine for our Development/QA environment on RHEL 4.0
* Designed various custom applications on top of **ARS**, customizations to OOB forms.
* Custom built **CM** module and approval process, workflow using filters, active links, menus & escalations.
* Integrated the Remedy application with an external Oracle database via **SQL** Code and **view** form.
* Administrative tasks such as performance tuning, backup and optimizing workflow by using **SQL**, creating user accounts.
* Migrating Data from one server to other server using **Migrator**.
* Training and Documentation.

**Environment: Remedy ARS 6.x, Help Desk 6.x, Asset Management 6.x, CMDB 1.1, Change Management 6.x, Oracle 9.0.1, Linux, Migrator 6.x, Crystal Reports 10, Visio and Apache.**

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**EDUCATION**

* Bachelor in Computer Science, Jawaharlal Nehru Technological University, Hyderabad, India.
* **Masters in Computer Science**, Illinois Institute of Technology, Chicago, Illinois, US.