**Rama Krishna**

**Lead Azure DevOps, Cloud & SRE Infrastructure Engineer**

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An accomplished and result-oriented professional with 12+ years of experience in the IT Industry. As a Certified Azure DevOps, Cloud Engineer & SRE with hands-on experience Supporting, Automating, and Optimizing mission-critical deployments and releasing code from one environment to another, Source Code Management, leveraging configuration management, CI/CD, and DevOps Culture

**Professional Experience:**

* Experienced in working on Software Development Lifecycle (SDLC), culture, CI/CD pipelines and delivery automation, agile methodologies, values, and procedures.
* Experience with Azure Repos, branching Strategy, code review, and code analysis tools like sonarqube.
* Experience in Build and release management – Azure DevOps, Gitlab, Jenkins, Jfrog, maven.
* Design, implement, build & deploy the containerized application via Docker, Kubernetes, and Azure Container Registry.
* Implemented multiple CI/CD pipelines as a part of DevOps role for on-premises and cloud- based software using Azure DevOps, Terraform, Docker and Kubernetes.
* Design and implement scalable enterprise monitoring systems by applying continuous integration/delivery concepts
* Perform maintenance and troubleshooting of our enterprise Redhat OpenShift systems Work to continuously improve speed, efficiency and scalability of OpenShift systems
* Experience in working with deployment strategies Blue-Green deployment and Canary deployment.
* Experience in Azure Kubernetes Service (AKS), Automated the AKS deployment using Azure DevOps.
* Having working experience with Helm charts.
* Having working experience on network policies on Kubernetes.
* Having working experience with Service Mesh linked, Istio.
* Deployed AKS cluster, Resource group, and deployments using Terraform.
* Having working experience in setting up alerts on the AKS cluster.
* Having working experience on AKS clusters backup tools like Veloro, and Kasten.
* Having working experience in setting up Kub cost on the AKS cluster.
* Created Self-hosted agents from AKS deployment for Azure DevOps Projects.
* Design, implement, and improve monitoring and alerting systems.
* Experience in Infrastructure as a code tool terraform.
* Implemented Continuous deployment using Argo CD.
* Implemented the [server-less](https://en.wikipedia.org/wiki/AWS_Lambda) and Azure Functions

Serverless computing platform provided by Azure Cloud.

* Experienced on Ansible and Ansible Tower to automate repetitive tasks, deploy critical applications quickly, proactively manage the changes, and wrote many playbooks to manage Web applications.
* Expertise in Azure Development, working on Azure web applications, App services, Azure storage, Azure Resource Manager (ARM), ARM Templates, Azure SQL Database, Virtual Machines, Fabric controller, Azure AD, Azure search, and Notification hub.
* Experienced in Building, Testing and Deploying the applications by adopting the DevOps tools like GIT,Chef**,** Ansible, Jenkins, Dockers**,** kubernetes . Having good working experience in AWS with EKS by using CloudFormation.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
* Set up a GCP Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Create Procedures and Azure Governance Policies.
* Write the project documentation and conduct knowledge transfers.
* Expertise in Workflow, increasing in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Analyze, organize, and provide in-depth reviews to improve applications dynamically and ensure the timely completion of tasks.
* Strong hands-on experience as Middleware Administrator providing Infrastructure support. Build and set up the frontend WebSphere/WebLogic/Apache/Tomcat with JAVA/Apache environment per application requirements, WAS migration, upgrade, certificates renewals, Compliance, and Patching.

**Certifications:**

* **Azure DevOps Engineer.**
* **Fundamentals of service mesh (Linkerd).**
* **Azure Certified Administrator.**
* **RedHat certified JBoss Admin.**
* **ITIL V3 Certified Professional.**

**Education Details:**

* **B.Tech. from JNTU Hyderabad (2006).**

**Technical skills:**

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| --- | --- |
| CI/CD Tools | AzureDevops, GitLab, Argo CD |
| Hosting Environments | Cloud and On-Prem |
| Configuration Management Tools | Ansible, Jenkins, Helm |
| Monitoring Tools | AppDynamics, GCP, Cloud Watch, EKS, Site Scope, Splunk, ELK |
| Bug Tracking/Ticketing tools | JIRA, Service Now |
| Cloud Services | Azure, AWS ,Oracle |
| Database | PostgreSQL, MySQL, Oracle, MongoDB |
| Web/App Servers | Apache, Tomcat, JBoss, WebLogic, WebSphere, IIS |
| Operating System | Windows, RHEL, CentOS, Ubuntu |
| Version/Repository Management | GitHub, GitLab, JFrog, Artifactory |
| Virtual/VM’s and scripting | Oracle Virtual Box, Vagrant, VMware, Shell script, Terraform, Yaml, Json |
| Containerization & Orchestration | Docker, Swarm, openshift, Kubernetes, linkerd, Istio |
| Software Methodologies | Waterfall, Agile Scrum, Kanban |
| Software Practices | SRE |
| Programming Languages | Python |

**Project Summary:**

**Project#: AT&T KEPLER (Aug 2021 - Present)**

**Project**: AT&T Inc. is a leading Telecom services in the USA that provides voice, video, data, and Internet telecommunications and professional services to businesses, consumers, and government agencies services and firm with assets of $400 multibillion-dollar battle with competitors like T-Mobile and Verizon for the highest speed and most widely available 5G network.

Responsibilities:

* Designed and implemented CI/CD pipelines using Azure DevOps, reducing deployment time by 50% and improving overall release quality.
* Orchestrated and managed Kubernetes clusters for containerized applications, ensuring scalability, high availability, and efficient resource utilization.
* Managing the OpenShift cluster that includes scaling up and down the AWS app nodes.
* Implemented ELK stack for centralized log management, monitoring, and troubleshooting, enabling faster issue resolution and improving system performance.
* Had very strong exposure using ansible automation in replacing the different components of OpenShift like ECTD, MASTER, APP, INFRA, Gluster.
* Containerized applications using Docker, enabling consistent and reproducible environments across development, testing, and production.
* Utilized Terraform to provision and manage Azure cloud infrastructure, automating resource deployment and scaling.
* Used Chef for configuration management of hosted Instances within GCP. Configuring and Networking of Virtual Private Cloud (VPC).
* Standardized change management process with adoption of Rancher (for Kubernetes) with AWS EKS.
* Collaborated with development and operations teams to drive continuous improvement, streamline processes, and enhance overall system reliability.
* Developed and maintained Microservices architecture using Docker and Kubernetes.
* Implemented automated testing and integration pipelines, resulting in faster and more reliable software delivery.
* Configured Rancher and created/imported clusters using EKS .
* Collaborated with cross-functional teams to gather requirements, design solutions, and ensure successful project completion.
* Utilized agile methodologies to manage and prioritize project tasks, participating in daily stand-ups, sprint planning, and retrospectives.
* Pre-Migration Activities & Considerations.
* Unified Assessment Questionnaire (UAQ).
* Public Cloud Migration MOTS Lookup Tool.
* Technology Mapping and Guidance.
* Cost to modernize an app is based on the MVP (Minimal Viable Product) level of effort required to transform the app for cloud migration.
* LOE estimations will utilize Modernization Complexity along with information gathered during the application assessment phase.
* Cutover Management - Moving to Cloud
* Architecture Optimization and Server less Computing, Azure Allocated Budget, Cost Optimization & Utilization, Reserved Instances & Azure Savings Plans, Azure Account & Subscription Management at AT&T, T&T Security Policy, and Requirements (ASPR).
* Deploy and manage your Azure App Service for Containers workloads (non-DevOps), Setup DevOps Pipeline for your AT&T AKS Apps using Stratum Jumpstart Kit, Setup DevOps Pipeline for your AT&T IaaS Apps using Stratum Jumpstart Kit.
* Set-up databases **in GCP using RDS, storage using S3 bucket**and configuring instance backups to S3 bucket. prototype CI/CD system with GitLab on GKE utilizing kubernetes and Docker for the runtime environment for the CI/CD systems to build and test and deploy.
* Provide an overview of core Azure Networking Services used by AT&T Applications, deliver a deeper look at Azure Private Link Service, and demonstrate how to assess the overall networking cost of different solution architectures and approaches.
* Discuss cost optimization of AKS Applications in the context of AT&T architectural principles, look at different application layers when planning cost optimization for AKS applications, Make cost optimization as one of the key aspects of your application’s architecture.
* Plan for Business Continuity and Disaster Recovery for your AKS Applications, Discuss BC/DR of AKS Applications in the context of AT&T architectural principles.

**Role: lead Cloud Specialist**

**Client: Walmart. USA**

**Employer: Cognizant Technology Solutions (April 2016 – June 2021)**

**Responsibilities:**

* Configuring stateful sets, deployments, and storage services in Kubernetes.
* Building/Maintaining **Docker**container clusters managed by **Kubernetes Linux, Bash, GIT,** **Docker, and Ansible.**
* Hands-on experience in Azure Administration & Migration (Discovery and assessment tool use a lightweight Azure Migrate appliance), worked on Virtual machines.
* Manage different AZURE environments for provisioning of Linux servers and services executed by the providers.
* Good at Manage hosting plans for Azure Infrastructure, implementing & deploying workloads on Azure virtual machines (VMs).
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Working on implementing new OCR solution; Spring Boot, OpenShift, microservices. Member of group developing containerized applications; Docker, Spring Boot, Kubernetes**, OpenShift**. Deployed Microservices to IBM Bluemix Cloud Foundry and later migrated to OpenShift.
* Move existing apps (on-premises) to Azure in an optimized way—without code changes—using a lift-and-shift migration (6r migration). As-is app migration to cloud infrastructure as a service (IaaS).
* Designed, configured, and deployed Microsoft Azure for a multitude of applications utilizing the Azure stack (Including Compute, Web & App, Blobs, Resource Groups, Cloud Services, and ARM), focusing on high - availability, fault tolerance, and auto-scaling.
* Expertise in Microsoft Azure Cloud Services (IaaS)s, Application Insights, Azure Monitoring, Key Vault, Visual Studio.
* Build servers using GCP, importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, **load balancers**(ELBs) in the defined virtual private connection.
* Developed methodologies for cloud migration, implemented best practices and helped to develop backup and recovery techniques for applications on virtualization platforms.
* Extensive involvement in Designing Azure Resource Manager Template and in designing custom build steps using PowerShell and Bash shell.
* Cluster Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, security policies and routing.
* Deployed Azure IaaS virtual machines (VMs) into secure VNets and subnets.
* Designed VNets and subscriptions to confirm Azure Network Limits.
* Exposed Virtual machines and cloud services in the VNets to the Internet using Azure External Load Balancer.

**Role: E-commerce Cloud-Ops Engineer**

**Client: Williams-Sonoma Inc. USA**

**Employer: Cognizant Technology Solutions (Sep 2014 – March 2016)**

**Responsibilities:**

* Involved in designing and deploying a multitude of applications utilizing almost all the AWS stack (Including EC2, Route53, S3, and IAM) focusing on high availability, fault tolerance, and auto-scaling.
* Managing AWS tasks like Instance creations, snapshots, backups, Bulk user addition or removal, and adding routs.
* Migrated the current Linux environment to AWS/RHEL Linux environment and used the auto scaling feature.
* Increasing EBS-backed volume storage capacity when the root volume is full using the AWS EBS Volume feature.
* Created AWS Route53 to route traffic between different regions.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Worked on Openshift platform in managing Docker containers and Kubernetes Clusters and Created Kubernetes clusters using ansible playbooks (launch-instan deploy-docker.yml, deploy-kubernetes.yml) on Exoscale.
* Created users and groups using IAM and assigned individual policies to each group.
* Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
* Managed Openshift master, nodes with upgrades, decommission them from active participation by evacuating the nodes and upgrading them.
* Planning to move from VCLOUD to GCP
* Configured Security group for EC2 Window and Linux instances.
* Experience with monitoring tools such as Cloud Watch.
* Good understanding of ELB, security groups, NACL, NAT, firewall and Route 53.
* Deployment of WAR files on WebSphere, tomcat servers for PROD, QA, UAT during release cycles
* Monitoring the application health through different application monitoring tools like AppDynamics, True sight Cordiant
* Migrated applications to the PKS, GCPcloud.
* Checking the website health with real-time monitoring tools like Keynote,
* Working with Web admin Ecommerce team in various Production events
* Working on Incidents and Severity issues
* Vendor coordination and communication
* Providing root cause analysis for severity issue
* Analysis of issue logged by end user and business team.
* Ecommerce Peak period support.

**Role: Middleware Admin &Application Support**

**Client: NBC USA**

**Employer: GENPACT (Dec-2011 – Sept-2014)**

**Responsibilities:**

* Hands-on experience in maintenance of IBM WebSphere Application Server, Apache Webserver, JBoss on Linux and Windows platforms.
* Hands-on experience in applying patching and upgradation.
* Implemented clustering in WebSphere Application Server 8.5.5 using horizontal and vertical clustering to provide a scalable and highly available Web Sphere environment.
* Configured the Web Server plug-in to connect to WebSphere Application Servers.
* Involved in creating and managing WebSphere Environmental variables for Data Sources and JDBC Driver paths and other creating shared libraries and references.
* Experience in setting up of Nodes, Data-sources, Virtual Hosts, configuring Session Management
* Implemented Workload Management (WLM) methodology and fail over mechanisms including horizontal and vertical clustering, HTTP server fail over, and Deployment Manager and Node agent fail over.
* Expertise in working with logs, trace and messages using tools such as Log Analyzer, Resource Analyzer and Admin Console.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Configured database resources like JDBC Providers, Data sources, and security resources like JAAS Authentication (J2C) aliases to provide connectivity to Oracle, DB2 databases.
* Experience in deploying, maintaining, and troubleshooting applications in highly available Clusters in Test, Production, and DR environments.
* Experience in Installing, Configuring, Patching, Tuning, Troubleshooting, and Integrating WAS-ND, Apache Webservers, WSADMIN, Clustering, and Scaling, JNDI, LINUX, and Windows environments.
* Experience includes hands-on expertise in the Single Sign-On domain using Open LDAP.
* Experience in applying Fix packs/Refresh packs /cumulative packs for WAS using Update Installer.
* Experienced in Configuring of JDBC Providers, JDBC data sources, connection pool, Virtual Hosting, JNDI, Global Security, SSL, SSO, and Open SSH, Open SSL, LDAP.
* Creating the Problem Management Record (PMR) if there were any unresolved bugs.
* Assembled and deployed the application in staging, in productions, following change management practices and 24/7 Application support.

**Role:  System Engineer**

**Client: SONATA Software (Mar-2011 – Aug 2011)**

**Responsibilities:**

* Hands-on experience in maintenance of IBM WebSphere Application Server, Apache Webserver, and JBoss on Linux and Windows platforms.
* Provided support to applications running on JBoss & Tomcat in RedHat Linux
* Provided support for production issue resolution.
* Installation and configuration of JBoss & Tomcat.
* Building QA, Staging, DR, and production environment.
* Building the Apache Web server environment.
* Redirection in Apache Web server.
* Deployments (war, ear, and jar files) in JBoss & Tomcat instances and configuration of Connection pools.
* Integration of Apache with JBoss & Tomcat by using mod jk.