

SUPRITH REDDY ANNAPUREDDY

Sr. Cloud DevOps Engineer

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PROFESSIONAL SUMMARY

- Experienced IT professional with 10+ years in DevOps Cloud Engineering and Linux Systems Administration, encompassing SCM, Build/Release Management, CI/CD, and AWS Cloud Architecture.
- Proficient across a wide array of Amazon Web Services (AWS) offerings, including EC2, S3, RDS, Lambda, VPC, ECS/EKS, CloudWatch, IAM, Route 53, SNS, CloudFormation, and more.
- Proficient in setting up CI/CD pipelines using GitHub Actions and Jenkins, automating the build, test, and deployment processes to ensure rapid and reliable software delivery.
- Skilled in expertly utilizing Ansible, shell, and Java and Python scripting to drive DevOps tooling, CI/CD implementation, and AWS expertise.
- Hands-on expertise to implement AWS Lambda workflows using Python, enabling smooth and practical interaction between EC2 instances and S3 storage resources.
- Demonstrated expertise in utilizing Terraform for defining and provisioning infrastructure as code, ensuring consistent, repeatable, and version-controlled resource deployments.
- Proficient in Chef, Puppet, and Ansible for streamlined configuration and automation management.
- Expertise in version control using SVN, GIT, and GitHub, with CI management using Jenkins.
- Experienced in deploying code through application servers like WebSphere, WebLogic, Apache Tomcat, and JBOSS.
- Implemented monitoring solutions using NodeJS and Prometheus to collect and analyze system metrics, enabling proactive monitoring and alerting for performance degradation and system failures.
- Leveraged Python scripting and configuration management tools like Ansible to automate infrastructure provisioning, configuration, and management.
- Proficiently acquainted with pivotal Build Management Tools, including Ant and Maven, while also demonstrating practical experience with Gradle and Jenkins for streamlined software development processes.
- Leveraged Agile methodologies to facilitate iterative development and sprint-based project execution, integrating Scrum and Kanban frameworks to ensure seamless collaboration and continuous improvement.
- Proficient in developing and delivering JAVA/J2EE web content, with knowledge of Oracle and MS SQL Database servers.
- Leveraged JUnit, Cucumber, and Selenium to design and implement robust automated testing frameworks, ensuring code quality and reducing manual testing efforts.
- Designed and maintained CI/CD pipelines using Java, Python, and NodeJS, enabling automated builds, testing, and deployment of applications across different environments. Integrated version control systems like Git with CI/CD workflows for versioning and collaboration.
- Demonstrated ability in configuring container networking within Docker and Kubernetes, ensuring seamless communication between containers and services.
- Adept at setting up comprehensive monitoring and visualization using Prometheus and Grafana, ensuring real-time insights into application and system performance.
- Created idempotent Ansible playbooks that can be safely executed multiple times without unintended consequences, contributing to reliability and maintainability.
- Proficient across an extensive spectrum of Microsoft Azure services, encompassing Virtual Machines, Azure Storage, SQL Database, Azure Functions, Virtual Networks, Azure Kubernetes Service (AKS), Azure Monitor, Azure Active Directory, Azure DNS, Azure Service Bus, Azure Resource Manager, etc.
- Implemented security measures, both in Ansible and Kubernetes, including Ansible Vault and Kubernetes RBAC, ensuring secure access and compliance.
- Strong understanding of DevOps principles and practices, including Agile methodologies, continuous integration, continuous deployment, and collaboration across development, operations, and security teams to drive efficient software delivery cycles.
- Proficient in using integrated development environments (IDEs) such as IntelliJ IDEA, Eclipse, and Visual Studio Code to support developers in coding, debugging, and testing software applications.

TECHNICAL SKILLS

Build Tools	MAVEN, ANT, Gradle, MS Build.
Bug Tracking Tools	JIRA, Fisheye, Cucumber, Confluence, IBM Clear Quest.
Version Control Tools	Git, SVN, Team Foundation Server (TFS), Clear Case.
Automation Container	Docker, Kubernetes, Helm, Docker Swarm, Open-Shift, Terraform
Continuous Integration	Jenkins/Hudson, Bamboo, Team City, Build Forge, TFS Visual Studio Build, GitHub Actions, Gitlab Pipelines, Azure Pipelines.
Continuous Deployment	Puppet, Ansible, Salt Stack, And Chef.
Amazon Cloud Services	EC2, RDS, VPC, S3, ROUTE53, SNS, SQS, Cloud Front, EBS, ELB, Cloud Watch, Elastic Beanstalk, Open Shift, Open Stack, And Cloud Trail.
Azure Cloud Services	Virtual Networks/Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, Traffic Managar
Monitoring Tools	Nagios, Splunk, Elastic Search, SonarQube, Jmeter, Selenium
Operating Systems	RHEL (5.X, 6.X, 7x), SUSE Linux (9, 10, 11), Sun Solaris (9, 10, 11), Centos 5, 6, Windows 2003, 2008, VMware ESX (3.5, 4.0).
Networking	TCP/IP, NIS, NIS+NFS, DNS, DHCP, Wan, Smtpt, Lan, FTP/TFTP, Telnet, Firewalls.
Database Servers	Oracle 9i, 10g, MySQL 7.0, 6.5, RDBMS Oracle, Mongo Db, Cassandra, SQL Server.
Web/Application Servers	IIS, WebLogic, Web Sphere, JBoss, Apache Server, Apache Tomcat
Scripting Languages	Shell Scripting, Perl, Ruby, Python, YAML, Groovy.
Languages	C, C++, .Net, Java/J2ee, PHP, Python, NodeJS, JUnit, FitNesse
SDLC	Agile, Scrum, And Waterfall.
Deployment Tools	U-Deploy, Octopus Deploy, Run Deck.

CERTIFICATIONS

- Certified in Microsoft Azure Administrator Associate
- Certified Kubernetes Administrator
- Certified in AWS Developer Associate

EDUCATION

- Bachelor of Computer Science from Osmania University
- Master's in Computer Science from University of North Texas

PROFESSIONAL EXPERIENCE

Role: AWS Cloud Engineer

Client: US Bank - Los Angeles, CA

Aug'22 – Present

- Designed and implemented Microservices architecture using Spring Boot and Spring MVC, featuring RESTful APIs for enhanced application modularity and scalability.
- Orchestrated CI/CD workflows with GitLab CI/CD and AWS CodeBuild, streamlining the development lifecycle for Python-based projects.
- Developed Bash and Python scripts to facilitate seamless application migration and conducted proactive health monitoring during migration phases.
- Orchestrated CI/CD processes using CloudFormation, Terraform templates, and Docker for Vagrant, AWS, and Amazon VPCs.
- Implemented containerization using Docker and Kubernetes, facilitating seamless deployment and scaling of Java and Python applications.

- Created Python scripts for automating infrastructure provisioning on AWS using Boto3, enhancing deployment speed and consistency.
- Implemented microservices architecture using Spring Boot and AWS Lambda functions, improving system modularity and resource utilization.
- Integrated Java applications with AWS services like S3, DynamoDB, and SQS for seamless data storage, retrieval, and asynchronous messaging.
- Integrated JUnit and Cucumber frameworks into CI/CD pipelines to automate unit, integration, and acceptance testing, ensuring code quality and reliability.
- Implemented and optimized automation scripts using AWS CloudFormation, AWS CLI, and AWS SDKs to streamline deployment processes and reduce manual errors.
- Implemented continuous integration (CI) and continuous deployment (CD) pipelines using AWS Code Pipeline, AWS Code Build, and AWS Code Deploy to automate build, test, and deployment processes.
- Created Terraform modules for AWS instance creation and automated resource provisioning.
- Implementing security measures such as IAM policies, encryption, and network security groups on AWS.
- Implemented Puppet automation with modules for Kafka, Zookeeper, MySQL, Logstash, HTTP collectors, and Schema registry on EC2 instances for Kafka cluster setup.
- Configured Apache Tomcat, Java, CA (SSO) Access Gateway, and SiteMinder agent using Ansible Playbooks on Windows and Linux systems.
- Setting up monitoring tools like CloudWatch, AppDynamics, and Splunk for real-time visibility into application performance and system health.
- Leveraged CloudWatch Logs Insights to analyze and troubleshoot application logs, identifying patterns, anomalies, and performance bottlenecks to optimize resource utilization.
- Utilized Kubernetes for container orchestration, including deploying, managing, and scaling containerized applications.
- Set up and manage ELK Stack (Elasticsearch, Logstash, Kibana) or similar solutions to centralize log data.
- Proficient in version control by proficiently utilizing Git and SVN across diverse Linux and Windows platforms.
- Orchestrated efficient management of Ansible Playbooks and roles, facilitating node configuration, and executing essential file operations with precision.
- Led a cross-functional team to develop and deploy microservices architecture (Java, Python, Node.js) using Docker and Kubernetes on AWS ECS clusters, improving system scalability and resource utilization.
- Designed and executed comprehensive performance testing strategies (JMeter, Selenium, Cucumber) for digital platforms, ensuring optimal user experience under high traffic conditions and peak loads.
- Implemented BDD frameworks (Cucumber, FitNesse) for automated acceptance testing, driving collaboration between development, QA, and business teams to deliver high-quality software solutions aligned with regulatory requirements and industry standards.
- Setting up Kubernetes clusters for container orchestration and deploying containerized applications onto Kubernetes clusters.
- Setting up and configuring AWS RDS instances for relational databases like MySQL and performing backups, upgrades, and maintenance tasks on AWS RDS.
- Integrated JUnit tests with Jenkins and AWS CodeBuild for automated regression testing, improving software quality and reliability.
- Designed and developed Node.js applications to support real-time transaction processing and analytics for US Bank's digital banking platform.
- Leveraged Express.js framework to build robust RESTful APIs for seamless integration with external payment gateways and financial services.
- Managed secrets and sensitive configuration using tools like HashiCorp Vault or AWS Secrets Manager to enhance security and access control.
- Automating IAM tasks using AWS SDKs, CLI, or infrastructure as code (IaC) tools like Terraform or AWS CloudFormation.
- Integrated JMeter with AWS CloudWatch for real-time monitoring of application performance metrics during load testing.
- Utilized FitNesse framework for automated acceptance testing of Java-based APIs and microservices, validating business logic and data integrity.
- Conducted regression testing using Selenium Grid and AWS Lambda, validating application performance and responsiveness across various environments.

- Collaboratively engaged with Jenkins, GitHub, Puppet, and other robust build systems, supporting the development of a Java-based cloud orchestration and automation tool.
- Integrated IDEs with containerization tools like Docker and Kubernetes, allowing DevOps teams to develop, build, and deploy containerized applications directly from the IDE environment.

Role: Azure DevOps Engineer

Client: JP Morgan Chase & Co. - Plano, TX

Mar'21 – Aug'22

- Executed compilation of applications, conducted testing, and facilitated artifact storage within Nexus Artifactory for streamlined software development workflows.
- Proficiency in Azure IaaS, encompassing Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, and Traffic Manager.
- Configuring Azure web apps, App services, Application insights, Application gateway, DNS, Traffic manager, Network Watcher, Azure Site Recovery, Backup, and Automation.
- Developed and maintained Java-based microservices deployed on Azure Kubernetes Service (AKS) for seamless scalability and reliability in processing banking transactions.
- Creating job chains in Jenkins with Jenkins Job Builder, Parameterized Triggers, and target host deployments using various Jenkins plugins and API.
- Developed serverless functions using Azure Functions and Python to automate data processing tasks, reducing manual effort by 40%.
- Implemented robust monitoring solutions on Azure using tools like Azure Monitor, Azure Log Analytics, and Azure Application Insights.
- Containerized Node.js applications using Docker and managed container orchestration with Azure Kubernetes Service (AKS).
- Implemented infrastructure-as-code (IaC) practices using IDE plugins like Terraform for provisioning and managing cloud resources, ensuring consistency and scalability in infrastructure deployments.
- Designed and implemented CI/CD pipelines using Jenkins, incorporating automated testing with JUnit, Cucumber, and Selenium for continuous integration and deployment.
- Integrated FitNesse tests with CI/CD pipelines for automated acceptance testing as part of the deployment process.
- Implemented authentication and authorization using Azure Active Directory (AAD) for securing Node.js APIs and services.
- Implemented role-based access control (RBAC) and Just-In-Time (JIT) access policies to limit exposure and mitigate potential security risks within Azure environments.
- Employed Kubernetes namespaces for segregating and isolating applications, resources, and network policies within a cluster.
- Implemented parameterized tests and assertions in JUnit for comprehensive test coverage of banking application functionalities.
- Utilized parallel test execution techniques in JUnit, Cucumber, and Selenium to reduce test execution time and accelerate feedback cycles.
- Utilized Ansible Vault for securely managing sensitive credentials, ensuring secure access to Azure resources during automation.
- Configured Azure Security Center to continuously monitor and assess the security posture of Azure resources, identifying and remediating security vulnerabilities and threats.
- Designed and implemented disaster recovery solutions using Azure Site Recovery (ASR) and Azure Backup, ensuring business continuity and data protection in case of infrastructure failures or disasters.
- Set up Kubernetes ingress controllers to manage external access and routing of HTTP and HTTPS traffic to services within the cluster.
- Used Terraform and ARM templates to define and provision infrastructure resources in a repeatable and scalable manner, facilitating agile development and minimizing deployment risks.
- Orchestrated containerized Java applications using Kubernetes for efficient scaling and management.
- Integrated Selenium with Azure DevOps pipelines for continuous testing and validation of application changes.
- Developed Java and Python applications and services, optimizing code for performance and scalability. Implemented design patterns and best practices to ensure code maintainability and extensibility, facilitating smooth integration into CI/CD pipelines.

- Configured and managed Jenkins pipelines to automate Java application builds, unit testing, and code quality checks.
- Automated API testing using Cucumber and Jmeter with RestAssured library, validating RESTful endpoints and data integrity.
- Containerized Java applications for container-based deployment, ensuring consistency and portability across different environments.
- Configured FitNesse test suites to run as part of Azure DevOps CI/CD pipelines, ensuring consistent quality across releases.
- Employed Terraform to design and manage Azure infrastructure as code, orchestrating the creation, modification, and scaling of Azure resources with precision, consistency, and version control.
- Integrated Azure DevOps with Docker, orchestrating Docker container deployments for consistent and portable application releases.
- Automating deployment of Microservices by pulling images from private Docker registry and deploying to Docker Swarm Cluster.
- Integrated JMeter with Azure Monitor for real-time monitoring of application performance metrics during load tests.
- Leveraged IDE debugging tools and performance profiling features to troubleshoot issues, optimize application performance, and enhance reliability in cloud environments.

Role: DevOps Engineer

Client: PWC - Tampa, FL

Oct'19 – Feb'21

- Played a pivotal role in architectural decisions and tasks for ongoing migration projects, utilizing AWS CloudFormation and Azure Resource Manager (ARM) templates for consistent infrastructure provisioning.
- Led microservices development using .NET/C# and Web API technology, employing AWS Lambda for serverless microservices and Azure Kubernetes Service (AKS) for containerized deployments.
- Developed robust backend applications using Java, including RESTful APIs and microservices, to support scalable and reliable cloud infrastructure for PwC clients.
- Leveraged Python and Node.js for scripting tasks related to infrastructure management, configuration, and monitoring, ensuring continuous integration and deployment (CI/CD) workflows.
- Build scripts using ANT and MAVEN build tools in Jenkins, Sonar to move from one environment to other environments.
- Integrated Node.js with cloud-native services such as AWS Lambda and Azure Functions for serverless computing, optimizing resource utilization and cost efficiency.
- Proficient in containerization technologies such as Docker and container orchestration using Kubernetes on both Azure Kubernetes Service (AKS) and Amazon Elastic Kubernetes Service (EKS).
- Conducted comprehensive testing and performance monitoring using tools like JUnit, Cucumber, Selenium, FitNesse, and JMeter, ensuring quality, reliability, and scalability of cloud solutions for PwC clients.
- Integrated monitoring and logging solutions like AWS CloudWatch, Azure Monitor, Junit and ELK Stack for comprehensive visibility into infrastructure and application performance.
- Created Docker file for each micro service and changed some of the Tomcat Configuration files which are required to deploy Java based application to the Docker container.
- Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like GitHub, Subversion (SVN) on Linux and windows platforms.
- Provided technical expertise and guidance to team members on cloud architecture, deployment strategies, and troubleshooting techniques for Azure and AWS environments.
- Utilized Data Dog and Jira for agile issue tracking, enhancing incident management and team collaboration.
- Utilized configuration management tools like Ansible and Puppet to automate configuration drift remediation and ensure consistency across cloud environments.
- Conducted performance tuning and optimization of AWS & Azure resources and workloads, identifying and mitigating performance bottlenecks to improve system responsiveness and efficiency.
- Collaborated with cross-functional teams including Data Center, Development, QA, and Management to ensure seamless project transitions to production and secure approval for all production changes.
- Utilized IDE plugins and extensions for continuous integration and deployment (CI/CD) pipelines, automating build, test, and deployment processes for cloud-native applications.

Role: Build/Release Engineer**Client: EVerge - NY****May'18 – Sep'19**

- Developed installer scripts using Ant, Python, and UNIX for various products to be hosted on Application Servers.
- Drove efficient build and release processes by harnessing AWS services like EC2, S3, Lambda, and CloudFormation, elevating the scalability and reliability of our DevOps practices.
- Employed Docker and Kubernetes for containerization and orchestration, optimizing application deployment and scalability.
- Implemented and maintained artifact repositories using tools like Nexus, Artifactory, or AWS S3, ensuring efficient artifact management and traceability throughout the release lifecycle.
- Automated deployment modules of IIS web applications, bindings, and configuration settings using a combination of PowerShell scripts and Puppet.
- Implemented blue-green deployments and canary releases to achieve zero-downtime deployments and mitigate risks associated with production deployments.
- Conducted periodic reviews and audits of build/release processes, identifying areas for optimization and implementing process improvements to enhance efficiency and reliability.
- Integrated build tools such as Maven and Gradle with CI/CD pipelines, orchestrating build tasks, dependency management, and artifact generation for Java and web applications.

Role: System Administrator**Client: PepsiCo, Plano, TX.****Mar'16 – April'18**

- Managed software and application package administration, resolving user-level issues and overseeing deployment procedures.
- Conducted Linux package upgrades and implemented patch management while configuring Red Hat Linux Servers using Jumpstart and kickstart methods.
- Utilized Configuration Management (CM) tools including SVN, Maven, Jenkins, Git, and GitHub to ensure robust traceability, repeatability, and quality of processes.
- Exhibited expertise with various application servers including WebLogic, JBOSS, WebSphere, and Tomcat, proficiently managing user accounts, groups, Data Sources, and JMS Sources in WebLogic.
- Demonstrated proficiency in scripting with Ruby and Python, contributing to enhanced system functionalities and automation.
- Managed release artifacts and versioning using repository management tools like Artifactory and Nexus, maintaining a centralized repository for build artifacts and dependencies.
- Conducted security assessments and implemented best practices for securing cloud environments, including network segmentation, encryption, and access controls.

Role: System Administrator**Client: Bravo Biz Solutions, Herndon VA****Feb'14 to Feb'16**

- Extensive experience in managing and administering diverse operating systems, including RHEL 5/6, Oracle/Sun Solaris, and Windows Server.
- Proficient in configuration management tools like Chef and Puppet to automate deployments and ensure consistent system configurations.
- Designed and maintained complex networking setups, managing DNS configurations, and ensuring seamless communication through TCP/IP, HTTP, and FTP protocols.
- Effectively utilized system logs, diagnostic tools, and advanced troubleshooting techniques to identify root causes and implement solutions.
- Proficient in managing and resolving IT support tickets using industry-standard ticketing systems, ensuring timely issue resolution and user satisfaction.
- Developed customized monitoring dashboards and alerts, enhancing visibility into system metrics, and enabling prompt response to anomalies.