

Pavan kumar vootkuri

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Professional Summary:

- Experience in the IT industry as DevOps Engineer with application server clusters comprising several hundreds nodes. with expertise in Infrastructure seeking challenging opportunities. contribute to the company's success.
- Proven experience in working with AWS EKS, Terraform automation, Kubernetes, Istio, ECS, and implementing CI/CD pipelines using GitHub Actions.
- Experience on working AWS components like EC2, EKS, ECS, RDS, VPC, R53.
- Designed and maintained a comprehensive library of reusable Terraform modules, enabling efficient and standardized infrastructure deployment for different applications and environments.
- Developed and maintained serverless applications using AWS Lambda functions, leveraging event-driven architecture for real-time data processing.
- JIRA Administration and creating workflows for CICD.
- Designed and implemented highly scalable and fault-tolerant Lambda functions to handle a high volume of concurrent requests.
- Utilized AWS services such as API Gateway, S3, DynamoDB, and Lambda to architect and build robust serverless solutions.
- Skilled enough to build deployment, build scripts and automated solutions (using scripting languages such as Shell, Python etc.)
- Extensively worked on Atlassian Tools like BAMBOO, BITBUCKET SERVER (STASH-GIT), JIRA & CONFLUENCE.
- Extensive experience on Docker containers infrastructure and Continuous Integration for building & deploying Docker containers.
- Setup and build AWS infrastructure Development and Operations involving various AWS Cloud resources VPC, EC2, S3, IAM, EBS, ELB, EBS, SES, Security Group, Auto Scaling, Elastic cache
- Docker container orchestration platforms like Kubernetes and OpenShift
- Strong experience in implementing the monitoring solutions like Wily Introscope, HP SiteScope, Splunk, Zabbix, etc.

Technical Skills:

cloud	AWS
Orchestration	Kubernetes, Openshift
Infra provisioning tools	Terraform, Ansible
Operating Systems:	Linux, Windows
CI/CD/Configuration Management Tools	BAMBOO, Teamcity, BITBUCKET, GITHUB, Jenkins, Buildkite, GITHUB ACTIONS, JIRA
Monitoring Tools:	ELK Stack, SPLUNK, Tivoli Performance Viewer, Wily Introscope, Splunk, HP Sitescope, Zabbix New relic appdynamics DATADOG, SUMOLOGIC
Scripting Languages:	Shell, Python, PERL, RUBY

Education:

Master of Science in Computer science and Information Technology (Jan 2014- May 2015)

Sacred heart university

Fairfield, Connecticut, USA

Bachelor of Technology in Technology Oct 2007- April2011

CVR college of Engineering

JNTU Hyderabad, India

Professional Experience

Wafts Solutions Inc

July 2023 - current

Systems Engineer

- Lead the migration of on-premises applications to AWS cloud infrastructure, reducing operational costs by 30% and improving scalability.
- Implemented and managed CI/CD pipelines using Bamboo, GitHub, and JIRA, resulting in a 50% reduction in application deployment times.
- Administered Oracle WebLogic servers, ensuring high availability, performance, and security for mission-critical applications.
- Configured and maintained Adobe AEM for content management and personalization to enhance user experiences.
- Developed and optimized complex SQL queries for data analysis, reporting, and performance tuning.
- Leveraged Oracle SQL to manage and maintain databases, ensuring data integrity and efficient retrieval.
- Expertise in migrating applications running on traditional infrastructure to highly scalable immutable infrastructure using Docker.
- Experience in designing and deploying large scale infrastructure deployments via code using Terraform on AWS.
- Experienced in architecting highly scalable cloud native applications running on AWS.
- Experience in designing and maintaining secret management stores using HashiCorp Vault which is backed by Consul storage.
- Integrated Kubernetes with HashiCorp Vault to inject configurations at runtime for each service using init, config sidecars between app and config containers.

Flexport (Bellevue, WA)

July 2021 - July 2023

Senior Software Engineer - Infrastructure

- Collaborated with cross-functional teams to design, implement, and maintain highly available and scalable infrastructure solutions on AWS. Helped migrate infrastructure from AWS ECS to AWS EKS platform.
- Utilized AWS EKS (Elastic Kubernetes Service) to orchestrate containerized applications, ensuring high performance and scalability.
- Designed and implemented Kubernetes clusters, managing containerized workloads, and enabling seamless scaling and load balancing.
- Utilized Istio to implement advanced service mesh features, including traffic management, security, and observability.
- Automated infrastructure provisioning and deployment using Terraform, enabling efficient and consistent management of AWS resources.
- Designed and maintained a comprehensive library of reusable Terraform modules, enabling efficient and standardized infrastructure deployment for different applications and environments.
- Collaborated closely with development teams to understand infrastructure requirements and translate them into modular and reusable Terraform code.
- Implemented infrastructure-as-code principles, leveraging Terraform's declarative syntax and version control systems, to enable efficient collaboration and ensure infrastructure consistency across environments.
- Utilized Terraform to provision and configure Datadog resources, ensuring consistency and automation in the monitoring setup.
- Managed existing monolith application on AWS ECS (Elastic Container Service) for running containerized applications, ensuring efficient resource utilization and fault tolerance.
- Developed a scalable and resilient serverless e-commerce application using AWS Lambda functions and DynamoDB.
- Implemented user authentication and authorization using AWS Cognito and integrated it with Lambda functions to secure access to sensitive resources.
- Built RESTful APIs using AWS API Gateway and integrated them with Lambda functions for seamless data flow and efficient request handling.
- Leveraged AWS EventBridge to enable event-driven communication between Lambda functions and other AWS services, ensuring real-time updates and notifications.
- Employed Amazon CloudWatch to monitor and gain insights into the performance and behavior of Lambda functions, proactively addressing any issues.
- Implemented integrations between Datadog and Slack, PagerDuty, and other incident management platforms using Terraform, ensuring seamless communication and alert routing.

- Collaborated with stakeholders to define monitoring metrics and thresholds, aligning them with business goals and operational requirements.
- Written CI/CD pipelines using GitHub Actions (GHA), enabling automated infra code to deploy seamlessly.
- Integrated various testing tools and frameworks into the CI/CD pipeline, such as robo tests, integration tests, and code quality analysis.
- Mentored junior engineers, providing guidance and fostering a culture of continuous learning and improvement.

Wafts Solutions Inc

Mar 2019 - July 2021

Systems Engineer

- Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
- Provisioned and configured multiple Environments from scratch to deploy java microservices.
- Configured Environments DEV, QA, UAT, PERF, STG and PROD.
- Configured XRebel in DEV region
- Configured Redis cache server and set it sentinel for failover
- Dockerized complete application and implemented on Mesos Environment.
- Implemented new projects builds framework using bamboo & maven as build framework tools.
- Administrated JIRA tool. Created workflows for automating CICD using JIRA.
- Implemented serverless data processing pipelines using AWS Lambda and AWS EventBridge, allowing real-time processing of streaming data.
- Optimized Lambda functions for cost-efficiency by leveraging techniques such as cold start mitigation, asynchronous invocation, and resource pooling.
- Integrated TeamCity with version control systems (Git) to enable automatic triggering of builds upon code changes.
- Worked on SQL Administration. Took regular backups and performed upgrades.
- Created build configurations and defined custom build steps to compile code, run unit tests, and generate deployment artifacts.
- Configured notifications and reports in TeamCity to keep stakeholders informed about build statuses and test results.
- Implemented and maintained the continuous integration and deployment systems using bamboo, Maven, jfrog Artifactory.
- Worked on Continuous Deployment / Integration / Delivery throughout the software engineering lifecycle
- Working on Multiple AWS EC2 instances, set the security groups, Elastic Load Balancer and AMLs, Auto scaling to design cost effective, fault tolerant and highly available systems.
- Implemented the alert setup system for system/application performance using the Splunk and SiteScope integration.
- Provided recommendations on environment standards, product leveling, performance tuning, new project consulting, and recommend-broadened usage of DevOps functionality.

Indus Group Inc

July 2016- March 2019

Systems Engineer / DevOps Engineer

- Installation, configuration, and support of continuous integration and continuous deployment tool Bamboo.
- Managed environments DEV, QA, UAT and PROD for various releases and designed instance Strategies.
- Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups, Optimized volumes and EC2 instances.

- Integrated Lambda functions with other AWS services, such as AWS SQS (Simple Queue Service) and SNS (Simple Notification Service), for seamless messaging and event-driven communication.
- Implemented serverless authentication and authorization mechanisms using AWS Lambda and AWS Cognito, ensuring secure access to serverless applications.
- Integrated Build tools like MAVEN, ANT, GRUNT and NODE.JS with BAMBOO.
- Migrated the applications from existing applications to the OpenShift container platform.
- Extensively worked on MAVEN, GRUNT and NODE.JS to build war, jar files and store in maven repository in JFrog Artifactory Server.
- Written Python and shell scripts to automate build and Deploy for CI.
- Dockerized Bamboo environment.
- Relic, Dynatrace, AppDynamics and logic monitor.
- Used DSL groovy for Jenkins pipeline as code.
- Using the Docker Registry API to interact with the registry.
- Bamboo will push image artifacts and pull them to install on production systems.
- Installed and configured SonarQube code Quality tool and integrated with Bamboo and configured Quality gates to fail build if code coverage is not met.
- Supported Cassandra and Kafka To Dockerize.
- Extensively used Marathon / Mesos to deploy into all Environments.
- Worked on ELT (Monitoring tools)
- Implemented Monitoring tool Elastalert to monitor logs and scaling up and down.
- Administrated JIRA for ticketing system.

Agoge Systems

Oct 2015- July 2016

DevOps Developer/ Engineer

- Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
- Implemented new projects builds framework using Jenkins & maven as build framework tools.
- Implemented and maintained the continuous integration and deployment systems using Jenkins, Maven, Nexus, Ansible and Run deck.
- Implemented monitoring solutions with Splunk, HP SiteScope, and Zabbix.
- Worked on Continuous Deployment / Integration / Delivery throughout the software engineering lifecycle
- Experience with Windows and/or Linux administration, and Infrastructure management.
- Experience with Configuration Management and Desired State (Chef, Puppet, Ansible, DSC).
- Experience with Continuous Integration platforms (Teamcity/Jenkins).
- Used the Application Server Admin (JBoss/ Tomcat) to Manage the systems remotely using Puppet and using Linux.