



Pavankumar Gongadi

DevOps Engineer

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PROFESSIONAL SUMMARY:

- Over 9 years of experience as a DevOps Engineer in Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations.
- Experience in working as Engineer for release automation to achieve continuous integration and continuous delivery (CI and CD).
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- Competent extent of skills on DevOps essential tools like **Docker, Kubernetes, Git, Bit Bucket, Jenkins**, Maven, ADO pipelines, **Terraform, Ansible**.
- Demonstrated expertise in multi-cloud and hybrid cloud environments by deploying and managing applications on **OpenShift across** various infrastructures, ensuring consistency and portability.
- Ensured the security and compliance of applications by implementing built-in **OpenShift security** features such as role-based access control (RBAC) and network policies, meeting industry-specific regulatory requirements.
- Experience in **branching, tagging, and maintaining** the version across environments using SCM tools like Subversion (SVN), CVS and on UNIX and Windows environment.
- Skilled in system administration with a strong proficiency in managing **Solaris** and **UNIX** systems.
- Configured Azure Encryption for Azure Storage and Virtual Machines and files and folders backups on Windows and Linux operating systems using Recovery Services Vault in Azure Resource Manager.
- Admin Azure Cloud Services, Storage, Compute, Networking, Security, Containers, Serverless, Web Apps, App insights, Logic Apps, Azure SQL, Monitoring OMS, Key Vault.

- Implemented Terraform best practices, including versioning infrastructure code, using Terraform CLI for validation and planning, and adopting GitOps principles for infrastructure management.
- Contributed to the Terraform community by sharing reusable modules, providing feedback on GitHub issues, and participating in discussions on forums and mailing lists.
- Optimized Terraform configurations for scalability and performance, leveraging features such as parallel resource creation, resource dependencies, and provider throttling settings.
- Deployed applications on Azure cloud using Elastic Services AKS and Azure Container Services.
- Experienced in Building, Testing and Deploying applications by adopting DevOps tools like **Git, Maven, Jenkins, Docker, and Kubernetes (EKS)**.
- Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile, Scrum, and Waterfall methodologies**.
- Built S3 buckets and managed its policies using IAM and used glacier along with S3 for storage and backup on AWS cloud environment.
- Managed **Hadoop** clusters for processing large-scale data sets, optimizing performance and resource utilization through capacity planning and tuning.
- Created **Helm** charts for deploying microservices-based applications on **Kubernetes**, streamlining application lifecycle management, and enhancing deployment reliability.
- Experience with containerization using Docker, generation of **Docker images from Docker file** and pushing that image to private registries and **Artifactory management** tools using Jenkins.
- Authorized pom.xml files performing releases with the **Maven, ANT release plugin**, and managing artifacts in **Jfrog Artifactory and Nexus**.
- Excellent understanding of source-code management principles and systems, particularly **GIT**.
- In-depth knowledge of computer applications and scripting like **Shell, Python & Perl**.
- Led the architecture, design, development, and deployment of DevOps solutions, streamlining software delivery processes and enhancing infrastructure efficiency.
- Experienced and have a thorough understanding of automated implementation and deployment of cloud-based infrastructure (**Web apps, Application Service Environments, firewalls, load balancers, storage, monitoring, security, AD, DNS** etc.).

- Created reusable **Helm** chart templates with configurable values and parameters to support multiple environments and deployment scenarios.
- Experience in using bug tracking systems like **JIRA**, **Remedy**, **HP Quality Centre**, and IBM Clear Quest.

CERTIFICATIONS:

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

EDUCATION:

- Bachelor of Technology at Jawaharlal Nehru Institute of Technology, Hyderabad (2010-2014)
- Master of science at Nova Southeastern University (2015-2017)

WORK EXPERIENCE:

Client: UPS, USA

Role: DevOps Engineer/ SRE | APR 2020 – Current

Responsibilities:

- Hands-on Experience in creating Azure Key Vaults to hold Certificates and Secrets, designing Inbound and Outbound traffic rules, and linking them with Subnets and Network Interfaces to filter traffic to and from Azure Resources.
- Well-versed in automating Infrastructure using Azure CLI, monitoring and troubleshooting Azure resources with Azure App Insights, and accessing subscriptions with PowerShell.
- Configured and maintained Azure Storage Firewalls and Virtual Networks, which use virtual Network Service Endpoints to allow administrators to define network rules that only allow traffic from specific V-Nets and subnets, so creating a secure network border for their data.
- Configured and maintained WebSphere/JBoss application servers to ensure high performance and availability.
- Implemented security protocols and managed user roles in WebSphere/JBoss environments.
- Troubleshot and resolved deployment issues in production and staging environments.
- Proficiency in deploying and managing applications on Apache Tomcat
- Experience with Apache HTTP Server setup and configuration
- Knowledge of SSL/TLS configuration for secure communication
- Fully managed data integration platform that facilitates seamless data pipeline setup and management.

- Supports a wide range of data sources and destinations, including databases, cloud storage, and SaaS applications.
- Provides automated data synchronization, transformation, and loading (ETL) capabilities, streamlining data integration processes.
- Utilization of Azure DevTest Labs for creating and managing development and testing environments in Azure, optimizing resource utilization and cost-effectiveness.
- Integration of Azure services with Azure Active Directory (AAD) for identity management, authentication, and single sign-on (SSO) across Azure and hybrid environments.
- Configuration and management of Azure Data Services such as Azure SQL Database, Azure Cosmos DB, Azure Data Lake Storage, and Azure Databricks for data storage, processing, and analytics.
- Implementation of Azure security controls such as Network Security Groups (NSGs), Azure Security Center, and Azure Key Vault for protecting Azure resources and data.
- Development and deployment of serverless applications using Azure Functions, Azure Logic Apps, and Azure Event Grid for event-driven architectures and microservices.
- Implemented and provided Single Sign-On (SSO) access to users using Software as Service (SAAS) applications such as Dropbox, Slack, and Salesforce.com using Azure Active Directory (AAD) in Microsoft Azure.
- Configured an Azure DevOps pipeline to automate the provision of infrastructure on Azure through ARM templates and terraform depending on the kind of project.
- Configured Self Hosted agents on Azure DevOps.
- Led the design and implementation of infrastructure as code (IaC) solutions using Terraform, automating the provisioning and configuration of cloud resources.
- Managed version control and collaboration using GitHub and GitLab, ensuring efficient development workflows and code quality.
- Familiarity with version control systems such as Git for collaborative development, branching, merging, and code repository management.
- Skilled in using testing frameworks like TestNG or JUnit for writing unit tests, integration tests, and test suites to ensure code quality and reliability.
- Proficient in using logging frameworks like Log4j or SLF4J for logging application events, debugging, and troubleshooting.
- Deploying Azure Resource with JSON Templates from PowerShell and worked on Azure suite: Azure SQL Database, Azure Data Lake, Azure Data Factory, Azure SQL Data Warehouse, Azure Analysis Service.
- Worked on Azure AD connect to sync on-premises AD user data, groups, and organizations to Azure AD and troubleshoot Azure services sync with on-premises AD and resync using the Azure tools also Configure security in Azure AD using privilege access management, Identity protection, multi-factor authentication (MFA) for two-factor authentication.

- Experienced in working with XML for data representation, configuration, and communication between different systems. Skilled in parsing, validating, and transforming XML data using tools like JAXB (Java Architecture for XML Binding) and SAX (Simple API for XML).
- Solid understanding of the .NET framework and ecosystem, with a focus on C# development for web and desktop applications.
- Configured and managed Docker networks and volumes for the application and performed troubleshooting and resolved issues related to docker containers.
- Performed Azure Scalability configuration that sets up a group of Virtual Machines (VMs) and configures Azure Availability and Azure Scalability to provide High Application Availability and can automatically increase or decrease in response to demand.
- Analysed resource performance using Azure Monitor, Azure Advisor, and Log Analytics to identify bottlenecks and recommend upgrades or configuration changes.
- Deployed and managed Azure resources in collaboration with data centre staff and OIT, ensuring efficient utilization and performance.
- Managed user and group accounts implemented role-based access controls, and conducted regular audits to ensure security and compliance.
- Developed and maintained comprehensive documentation including technical specifications, standards, and system configurations.
- Inventoried, documented, installed, and maintained applications on Azure resources, providing user support for access and utilization.
- Diagnosed and resolved issues on Windows and Linux servers with minimal user impact, using tools like Event Viewer, Performance Monitor, Resource Monitor, and Linux command-line tools.
- Wrote PowerShell scripts to monitor server properties and automate Active Directory and Exchange management tasks.
- Administered infrastructure security policies, conducted regular security audits, and developed incident response procedures.
- Researched and recommended technical solutions to meet functional requirements, proposing and implementing process improvements to enhance operational efficiency.
- Integrated Kubernetes with other technologies, such as Docker and Prometheus to manage and scale the applications.
- Used Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal using template-driven deployment options such as Azure Resource Manager (ARM) templates and terraform.
- Used Azure Kubernetes Service (AKS) for Implementing Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed them.
- Optimized the cluster performance in the application environment by monitoring and tuning the Azure Kubernetes resources and scaling strategies.

- Experienced in utilizing SQL Server for efficient database management, ensuring data integrity, and optimizing query performance.
- Skilled in HTML5 for structuring web content, implementing responsive design, and integrating multimedia elements.
- Comfortable working within the open-source ecosystem, leveraging community support, and contributing to open-source projects.
- Customization and Integration: Capable of customizing solutions using open-source frameworks to meet specific project requirements and integrating different technologies seamlessly.
- Scalability and Reliability: Proficient in developing robust and scalable applications by implementing best practices and industry standards in web development.
- Continuous Integration/Continuous Deployment (CI/CD): Familiar with incorporating open-source tools and frameworks into CI/CD pipelines to automate testing, deployment, and monitoring processes.
- Developed custom Chef resources and providers to extend Chef's functionality and meet specific business requirements.
- Integrated Chef with other DevOps tools such as Terraform and Jenkins to create end-to-end automation workflows for continuous integration and deployment.
- Implemented version control and change management processes for ARM templates and BICEP files using Git, ensuring traceability and auditability of infrastructure changes.

Client: Intel, USA

Role: Senior DevOps Engineer | May 2018 – Mar 2020

Responsibilities:

- Integrated Docker with other technologies, such as Kubernetes to manage and scale the application.
- Implemented compliance regulations related to health data, such as HIPAA in the Docker environment.
- Implemented Autoscaling and self-healing strategies for the application on Kubernetes and implemented these security best practices in the Kubernetes environment when experienced with application workloads.
- Worked on the Cloud Watch to monitor the performance environment instances for operational and performance metrics during the load testing.
- Architected, designed, and implemented cloud-based solutions on Microsoft Azure, specializing in Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) offerings.
- Led platform engineering initiatives, focusing on automation, scalability, and reliability to streamline deployment and operations.
- Offers a rich set of command-line utilities and shell scripting capabilities for automation and system administration tasks.
- Supports a wide range of hardware architectures and platforms, making it suitable for diverse computing environments.

- Spearheaded the design, implementation, and optimization of DevOps practices and processes on the Azure cloud platform.
- Leveraged Azure DevOps services to orchestrate end-to-end CI/CD pipelines, automating build, test, and deployment workflows for cloud-native applications.
- Designed and implemented infrastructure as code (IaC) solutions using Azure Resource Manager (ARM) templates and Azure DevOps pipelines, ensuring consistent and reproducible infrastructure deployments.
- Implemented Azure DevOps Test Plans and Azure DevTest Labs for comprehensive test management and automated provisioning of development and testing environments.
- Orchestrated CI/CD pipelines using Azure DevOps, integrating with Azure Repos for version control and Azure Pipelines for automated testing and deployment of infrastructure and application changes.
- Implemented application insights and logging solutions using Azure Monitor and Application Insights, enabling real-time monitoring, diagnostics, and performance optimization of PaaS-based applications.
- Collaborated closely with development teams to optimize application architecture and performance for Azure PaaS environments, leveraging best practices and industry standards.
- Conducted regular reviews and assessments of Azure PaaS solutions, identifying opportunities for optimization, cost savings, and performance improvements.
- Integrated Azure Active Directory (AAD) for identity and access management, ensuring secure authentication and authorization across cloud resources.
- Architected and deployed highly available and scalable OpenShift clusters to support microservices-based applications, leveraging advanced features such as Operators, Custom Resource Definitions (CRDs), and Pod Affinity/Anti-Affinity.
- Automated infrastructure provisioning and configuration management using Ansible and Helm, reducing manual intervention and ensuring consistency across environments.
- Implemented CI/CD pipelines using Jenkins and Tekton, integrating with OpenShift for automated build, test, and deployment workflows.
- Orchestrated containerized workloads on OpenShift clusters, optimizing resource utilization and application performance through advanced scheduling techniques.
- Utilized Azure Security Center, Azure Key Vault, and Azure Policy for implementing and enforcing security policies, managing secrets, and ensuring regulatory compliance.
- Configured build pipelines to compile source code, run unit tests, package artifacts, and deploy applications to target environments, including development, testing, staging, and production environments.
- Proficient in understanding the Kafka distributed messaging system architecture, including concepts such as topics, partitions, brokers, producers, and consumers.
- Managed and secured APIs using 3scale, ensuring robust access control and monitoring.
- Configured Azure API Manager to manage and expose APIs to internal and external stakeholders.
- Implemented Axway API Gateway to enhance API security and performance.

- Experienced in setting up and configuring Kafka clusters for high availability and fault tolerance, including broker configuration, replication, and partition management.
- Monitored server health, performance metrics, and resource utilization to identify and troubleshoot issues proactively, ensuring uptime and availability of build and application servers.
- Performed routine maintenance tasks, including software updates, patch management, and system configurations, to keep servers and build environments up-to-date and secure.
- Experience in monitoring web server performance metrics and implementing optimization strategies to ensure reliability and scalability.
- Strong collaboration and communication skills, able to work effectively with cross-functional teams to achieve project goals.
- Established monitoring and logging solutions using ELK Stack, Prometheus, and Grafana to ensure visibility and observability across the entire stack.
- Demonstrated proficiency in Kubernetes, leveraging expertise to optimize container orchestration and management processes.

Client: Capital one, New York|

Role: Cloud DevOps Engineer | May 2017 – Apr 2018

Responsibilities:

- Involved in DevOps migration/automation processes for build and deploy systems.
- Consulted and recommended client in Build and Release Management Implementation.
- Used SCM/Build tools for Developers. Helping to resolve all SCM/Builds issues like merge conflicts, compilation errors, missing dependencies, Branching/Merging/Tagging.
- Worked with Ansible playbooks for virtual and physical instance provisioning, Configuration management and patching through Ansible.
- Supports a wide range of hardware architectures and platforms, making it suitable for diverse computing environments.
- Known for its stability, scalability, and performance, Unix is widely used in server environments for hosting critical applications and services.
- Proficient in designing and implementing solutions based on SOA principles.
- Experience in decomposing complex systems into modular, reusable services to facilitate scalability and flexibility.
- Managed environments within XL Release, including environment configuration, reservations, and dependencies, to facilitate smooth deployment across multiple stages (e.g., development, testing, staging, production).
- Collaborated with offshore teams to coordinate project activities and ensure alignment with organizational goals.
- Demonstrated proficiency in Linux and Windows administration, ensuring system reliability and security.
- Spearheaded Linux and Windows administration tasks, ensuring seamless operations across diverse systems.

- Skilled in defining service contracts, message formats, and communication protocols to enable interoperability between heterogeneous systems.
- Proficient in creating, managing, and deploying ARM templates for infrastructure provisioning in Azure DevOps pipelines.
- Experienced in automating Azure resource deployments using ARM templates to ensure consistency and reliability.
- Skilled in integrating ARM template deployments seamlessly into Azure DevOps CI/CD pipelines for continuous delivery of applications.
- Terraform state files and implemented remote backends to store and share state information securely across teams and environments, ensuring consistency and collaboration.
- Experience with Terraform Enterprise for collaborative infrastructure management, including role-based access control (RBAC), policy enforcement, and centralized governance.
- Utilized Terraform Cloud for managing remote state, executing Terraform runs, and collaborating with team members on infrastructure changes, enhancing visibility and control over infrastructure deployments.
- Leveraged Terraform workspaces to manage multiple environments (such as development, staging, production) within a single configuration, enabling efficient management of infrastructure lifecycle across environments.
- Automated using Ansible, Python, Perl, or shell scripting with attention to detail, standardization, processes, and policies.
- Automated infrastructure provisioning and configuration management for Hadoop clusters using tools like Ansible, Chef, or Puppet, reducing manual overhead and ensuring consistency across environments.
- Integrated Hadoop ecosystem components with CI/CD pipelines to automate data ingestion, processing, and visualization workflows, improving efficiency and reducing time-to-insight.
- Deployment and management of Azure resources using Infrastructure as Code (IaC) tools such as Azure Resource Manager (ARM) templates, Azure CLI, and Azure PowerShell for automated provisioning and configuration.
- Integration of Azure services with third-party tools and platforms through APIs, webhooks, and service connectors to streamline workflows and data exchange.
- Implementation of high availability and disaster recovery (HA/DR) solutions using Azure services such as Azure Site Recovery (ASR), Azure Backup, and geo-redundant storage for business continuity.
- Implemented monitoring and alerting solutions for Hadoop clusters using tools like Nagios, Prometheus, or Grafana, enabling proactive management and troubleshooting of performance issues.
- Ensured security and compliance of Hadoop deployments by implementing access controls, encryption, and auditing mechanisms, adhering to regulatory requirements and organizational policies.
- Collaborated with data engineers and data scientists to optimize Hadoop jobs and workflows for performance and resource utilization, leveraging tools like YARN, MapReduce, Spark, and Hive.
- Provided technical guidance and support to cross-functional teams on Hadoop architecture, best practices, and troubleshooting methodologies, fostering knowledge sharing and collaboration.

- Conducted capacity planning and performance tuning activities for Hadoop clusters to meet growing business demands and ensure cost-effective resource utilization.
- Experienced in leveraging Azure PaaS services such as Azure App Service, Azure Functions, and Azure SQL Database within Azure DevOps pipelines.
- Proficient in configuring and deploying cloud-native applications using Azure PaaS offerings, maximizing scalability and performance.
- Automation of routine tasks and workflows using Azure Automation, Azure Functions, Azure Logic Apps, and Azure DevOps pipelines for improved efficiency and reliability.
- Collaboration with cross-functional teams including developers, architects, operations, and security teams to design, implement, and maintain Azure solutions aligned with business requirements and objectives.
- Continuous learning and keeping abreast of the latest Azure updates, features, and best practices through training, certifications, and participation in Azure community forums and events.
- Implementation of Azure governance frameworks, including Azure Policy, Azure Blueprints, and Role-Based Access Control (RBAC), for enforcing compliance, security, and operational standards.
- Design and deployment of hybrid cloud solutions using Azure Hybrid Benefit, Azure Arc, and Azure Stack for seamless integration and management of on-premises and cloud resources.
- Skilled in integrating Azure PaaS services seamlessly into Azure DevOps CI/CD pipelines for automated deployments and continuous delivery.
- Familiar with monitoring and optimizing Azure PaaS resources for cost efficiency and reliability in production environments.
- Worked in an agile development team to deliver an end-to-end continuous integration/continuous delivery (CI/CD) product in an open-source environment using tools like Puppet, Jenkins.
- Experience in writing Puppet manifests and modules to automate the deployment process and to integrate Puppet manifests into Jenkins jobs for a continuous delivery (CD) framework.
- Configured and monitored distributed and multi-platform servers.
- Worked with Windows, Linux, and AWS teams to resolve issues and plan for infrastructure changes.
- Provided documentation of solutions for VMWare, Windows, and Linux and AWS teams.
- Set up preconfigured RHEL5.x and 6.x on local and in the cloud on AWS EC2 and defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
- Orchestrated multi-cloud deployments with hybrid architectures, leveraging GCP's connectivity options and integration capabilities with other cloud providers.
- Implemented cost optimization strategies on GCP to optimize resource utilization, reduce infrastructure costs, and maximize return on investment (ROI).
- Configuring and Controlling the Scale Up and Scale Out of the App Service Plans and Pricing tier (scale DTUs) while migrating the Databases and Applications from on-premises to Azure Cloud Platform.
- Deploying Azure Resource with JSON Templates from PowerShell and worked on Azure suite: Azure SQL Database, Azure Data Lake, Azure Data Factory, Azure SQL Data Warehouse, Azure Analysis Service.

- Implement migration strategies for traditional systems on Azure (Lift and shift/Azure Migrate, other third-party tools).
- Developed build and deployment scripts using Gradle and Ant, Maven as build tools in Jenkins to move from one environment to other environments.
- Created a fully/CD process. Automated Build and Deployment Platform and coordinating code build promotions and orchestrated deployments using Jenkins/Hudson and GitHub.
- Worked as a Release Engineer for Enterprise Applications. Perform App Dynamics post Deployment monitoring and Validation reports.
- Researched and implemented code coverage and unit test plug-ins like find bugs, check style and with Maven/Hudson.
- Manage releases to make sure the code goes to live with Quality and security.

Client: Kensium solutions Pvt Ltd, India|

Role: Application Developer | July 2014- August 2015

Responsibilities:

- Participated in the Analysis and Design of the application using UML/Rational Rose and Agile methodology.
- Monitor production systems, applications and network performance using various Network Management and Application Monitoring Tools
- Provides support to customers running Red Hat Enterprise Linux on their workstations and simulation servers.
- Identify and drive continual improvement program in UNIX environment and improve the service efficiency.
- BAU support on Unix servers [RHEL Linux/AIX/Solaris]
- Worked on different H/W issues with supported vendors for faulty parts replacement.
- Installing Software packages using RPM and YUM on Linux servers.
- Install, configure, manage, NIM server and install clients using NIM recourses.
- Experience on Live partition mobility on power servers.
- Frame migration on IBM P- systems from power6 to power7.