

Vinod Vulavakayala

Phone number: 816-388-9466 **Email address:** vinodvulavakayala9999@outlook.com
Web: <https://www.vinodvulavakayala.com>

Profile

Dedicated and highly skilled Azure DevOps Engineer with extensive experience in managing and optimizing Azure cloud infrastructure. Proven expertise in implementing CI/CD pipelines, automating deployments, and ensuring smooth release management. Strong problem-solving and troubleshooting abilities to resolve complex issues and deliver efficient solutions. Committed to continuously improving processes and driving innovation in the technology landscape.

Work Experience

DevOps Engineer/ MLOps Engineer Chevron

📅 04/2020 – present 📍 HOUSTON, UNITED STATES

- Working on Azure stack Virtual machines, Azure Key Vault, Azure Storage, Azure Networks, Azure DevOps, Azure Websites, Caching, SQL Azure, NoSQL, AzureFunctions(PAAS), Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
- Used Azure Active Directory to Manage users, groups, and application objects.
- Created and Implemented Azure Kubernetes Service (AKS) with Terraform, deployed pods and docker containers by using helm charts with ci/cd pipeline.
- Developed and implemented continuous integration and continuous deployment (CI/CD) pipelines using Azure DevOps, resulting in a 50% reduction in deployment time and improving overall software quality.
- Collaborated with cross-functional teams to design and configure infrastructure as code (IaC) using Azure Resource Manager (ARM) templates and Terraform, automating the provisioning of infrastructure and reducing manual errors by 70%.
- Led the migration of on-premises applications to Azure cloud, successfully optimizing performance and scalability while reducing infrastructure costs by 30% through efficient resource allocation and autoscaling capabilities.
- Utilized major AWS services including EC2, S3, Lambda, RDS, VPC, IAM, CloudFront, EKS, CloudWatch, and Elastic Beanstalk to manage scalable compute, storage, serverless functions, databases, and secure network environments, ensuring high performance, availability, and efficient operations.
- Written Ansible playbooks to install and configure Apache, hardening the Unix servers.
- Created Ansible roles for installing and configuring IIS, and SQL Server. Applied patches to the servers with Ansible.
- Implemented monitoring and alerting solutions using Azure Monitor, ensuring high availability and proactively identifying and resolving performance bottlenecks, resulting in a 40% reduction in downtime incidents.
- Successfully designed and executed Disaster Recovery Solutions, safeguarding critical data and systems, and enabling swift recovery in case of unforeseen events.
- Spearheaded the implementation of Hybrid Cloud Solutions, seamlessly integrating on-premises and cloud infrastructure to optimize performance, scalability, and cost efficiency for clients.
- Collaborated with clients to analyze business requirements and design customized cloud and platform solutions, resulting in increased efficiency and cost savings for their organizations.
- Collaborated with diverse departments, effectively troubleshooting and resolving application-specific issues to optimize operational efficiency.
- Managed and optimized Azure Machine Learning Workspaces, resulting in a 20% decrease in model training time.
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- Collaborated with data scientists and engineers to deploy and monitor machine learning models using Azure Kubernetes Service.
- Implemented and managed firewall policies on both Windows and Linux platforms, ensuring network security and protecting against unauthorized access.
- Resolved complex firewall-related issues by troubleshooting and analyzing logs, effectively mitigating threats, and ensuring uninterrupted network connectivity using Splunk, elk, app dynamics and Nagios.

AWS Cloud Engineer/DevOp Engineer Phillips66

📅 09/2019 – 03/2020 📍 HOUSTON, UNITED STATES

Work Experience

- Designed and implemented scalable cloud infrastructure solutions, leveraging AWS services such as EC2, S3, and Lambda, resulting in a significant reduction in infrastructure costs and improved system performance.
- Collaborated with cross-functional teams to migrate on-premises applications to the cloud, ensuring seamless integration and minimal downtime, resulting in increased operational efficiency.
- Developed and maintained cloud automation scripts using Python and Terraform, enabling rapid deployment and configuration management, resulting in a 50% reduction in deployment time.
- Conducted thorough security assessments and implemented robust security controls, including IAM policies, encryption mechanisms, and network security groups, to ensure data confidentiality and compliance with industry regulations.
- Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also re-used and modified the same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
- Deployed and configured Chef Server including bootstrapping of Chef Client nodes for provisioning. Created roles, recipes, cookbooks, and data bags for server configuration.
- Implemented and maintained Jenkins pipelines for continuous integration and delivery, enabling efficient software development and deployment processes.
- Collaborated with cross-functional teams to automate integration and testing procedures, resulting in significant time and cost savings.
- Managed and configured Jenkins agents for distributed builds, ensuring optimal resource utilization and improved build performance.
- Worked on Hashi Corp Packer by creating the packer files for updating the packages, and patching work for the AWS AMI with the new versions which resolves the compatibility issues when refactoring the applications onto the AWS cloud.

DevOps Engineer / Site Reliability Engineer **Discount Tire HeadQuarters**

📅 11/2018 – 09/2019 📍 PHEONIX

- Implemented Docker containers to streamline the software deployment process, reducing deployment time by 50%.
- Collaborated with the development team to containerize legacy applications, resulting in improved scalability and easier maintenance.
- Automated CI/CD pipeline using Docker and Jenkins, resulting in faster and more reliable software releases.
- Implemented and managed Kubernetes clusters, ensuring high availability and scalability of containerized applications.
- Orchestrated container deployments using Kubernetes, optimizing resource utilization and improving application performance.
- Collaborated with development teams to automate CI/CD pipelines using Kubernetes, enabling efficient software delivery.
- Conducted troubleshooting and resolved issues related to Kubernetes infrastructure, ensuring smooth operation of production environments.
- Troubleshoot and resolved complex TCP/IP network issues, utilizing diagnostic tools and techniques to minimize network downtime and enhance overall performance.
- Collaborated with cross-functional teams to design and deploy scalable TCP/IP solutions, enabling seamless integration of new technologies and facilitating business growth.
- Created Bash, Shell, and Python scripts to monitor system resources and system maintenance.
- Involved in architecting and deploying fault-tolerant, highly available, cost-effective, and secure servers in AWS. Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.

Systems Engineer/ Google cloud engineer **NorthWestern Mutual Life**

📅 10/2017 – 10/2018 📍 MILWAUKEE

- Implemented and maintained critical Linux server infrastructure, ensuring high availability and optimal performance for mission-critical applications.
- Developing and automating scripts, resulting in significant time and resource savings.
- Monitored and maintained Red Hat Linux systems, proactively identifying and resolving issues to ensure seamless operation and maximum availability.
- Collaborated with cross-functional teams to plan and execute Red Hat Linux migrations, successfully transitioning critical applications to new infrastructure without any disruptions.
- Conducted regular security audits and implemented necessary patches and updates, ensuring compliance with industry standards and protecting Red Hat Linux systems from potential vulnerabilities.

Work Experience

- Implemented scalable and cost-effective infrastructure solutions using Google Cloud Platform services such as Compute Engine, Kubernetes Engine, and Cloud Storage.
- Collaborated with cross-functional teams to design and deploy secure, high-performance applications on Google Cloud, ensuring adherence to best practices and compliance standards.
- Automated deployment processes and optimized performance by scripting in Python and utilizing technologies like Terraform and Ansible.
- Conducted regular performance monitoring and troubleshooting of cloud-based systems, identifying and resolving issues to maintain optimal system uptime and efficiency.
- Conducted regular system updates and patches to maintain optimal security and stability on Ubuntu-based networks.
- Gained Good knowledge of Java-based applications such as Spring MVC, Hibernate, Angular JS, J2EE, etc., and web-based applications such as HTML, CSS, JavaScript, XML, etc.

Linux Admin / Build and Release Engineer.
Hucon Tech

📅 11/2013 – 12/2015 📍 HYDERABAD, INDIA

- Implemented and maintained security protocols to ensure the integrity and confidentiality of sensitive data on Linux servers.
- Troubleshooted and resolved complex issues related to server performance, network connectivity, and system updates to minimize downtime.
- Server performance and enhancing system reliability.
- Deployed and maintained web apps.
- Created Jenkins pipeline to automated builds and deployments.

Skills

Azure Professional	AWS Professional	Docker Professional	Kubernetes Professional
Anisble/Chef Professional	Powershell Professional	Python Professional	Terraform/IaaC Professional
ContinuousIntegration/D eployment Professional	Linux and Windows Professional	Agile ProjectManagement Professional	Troubleshooting Professional
GCP Professional			

Education

Computer Science | Master
University of central Missouri

📅 01/2016 – 05/2017 📍 WARRENBURG, UNITED STATES

Certificates

Azure Cloud Administrator
Microsoft

Azure Security Engineer
Microsoft

Aws Developer Associate
AWS

Certified Kubernetes Administrator
CNCF