VIPIN KUMAR YADAV
Cloud & DevOps Engineer

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Professional Experience

Presidio Solutions Pvt. Ltd. July 2023 –
Engineer - Cloud & DevOps *Bangalore, India*

- Implemented a three-tier microservices application on an AWS EKS cluster utilizing a Jenkins Pipeline for deployment.
- Managed Docker containers, optimizing deployment processes and streamlining development workflows.
- Developed a PowerShell script for exporting Azure AD and SharePoint data into an Excel file, enabling comprehensive documentation. Additionally, crafted a Python script automating Azure AD secrets renewal and ensuring secure storage within Key Vaults.
- Established Azure DevOps-based CICD pipelines to deploy Microsoft PowerPlatform solutions, streamlining the deployment process effectively.
- Implemented an Azure Landing Zone at an enterprise scale using Terraform, included multiple management groups and subscriptions in accordance with Microsoft Cloud Adoption Framework.
- Implemented and managed multiple Azure Virtual Networks with peering, vWan, VPN gateway, and Network Security Groups (NSG), ensuring secure communication between resources and on-premises infrastructure.
- Set up continuous integration and deployment pipelines for infrastructure and application deployment using Jenkins and Azure-DevOps pipelines.

Presidio Solutions Pvt. Ltd. July 2022 – June 2023
Associate Cloud Engineer *Chennai, India*

- Configured AWS SSO using Azure Active Directory and implemented permission sets based on AAD groups.
- Configured and maintained multiple VPCs with public and private subnets, NAT gateways, VPNs, security groups, and Network ACLs to ensure secure communication between resources.
- Contributed to standard Terraform Modules for AWS/Azure resources, implementing best practices and enabling configuration as per specific requirements.
- Designed, deployed, and managed highly available and fault-tolerant infrastructure using Amazon EC2, ELB, Auto Scaling, Route 53, and CloudFormation

Presidio Solutions Pvt. Ltd. October 2021 – June 2022
DevOps - Intern *Remote*

- Designed and implemented AWS cloud infrastructure using services like EC2, S3, RDS, and Lambda.
- Developed a CLI application and slack bot using python to get the flight details between two airports.
- Developed Linux shell script which automates the process of installation and deployment of LAMP stack
- Deployed AWS resources using Terraform and deployed two-tier applications with Load Balancer, EC2 and AWS RDS.

Projects

Storefront API (Web Development) | *Python, Django, Django-rest-framework, PostgreSQL*

- The E-commerce API encompasses a range of functions, including user management, product management, cart operations, and order placement, each governed by predefined specifications.
- Conditions set requisites; e.g., ordering requires user authentication, granting access only to their order data.
- JWT are employed for secure user authentication, fortifying access control to the E-commerce API's functionalities.

Online Code Compiler (Web Development) | *Python, Docker, Redis, Flask, python-rq*

- Compiler offers diverse languages, enabling users to code in their preferred programming language effectively.
- Using Redis and queuing, the system handles concurrent requests, preventing delays for seamless user interactions.
- Users receive a unique tracking ID upon code submission, enabling them to retrieve real-time results or status updates.

Technical Skills

Languages: Python, JavaScript, PowerShell
Tools: Azure, AWS, Docker, Kubernetes, EKS, Git, Terraform, CloudFormation, CDK, Azure DevOps
Technologies/Frameworks: Linux, Jenkins, Django, Flask

Education

Sri Eshwar College of Engineering (Anna University) August 2018 - June 2022
Bachelor of Engineering - Computer Science

Certifications

- Microsoft Azure Fundamentals
- Microsoft Azure Administrator Associate