Objective

* DevOps/Cloud Engineer, Terraform Developer

Summary

Experienced Cloud Engineer with 5+ years of experience in designing, deploying, and optimizing cloud solutions on Microsoft Azure. Skilled in orchestrating CI/CD pipelines, implementing networking and security solutions, and ensuring high availability and disaster recovery. Adept at automating resource provisioning using Azure Resource Manager (ARM) templates, Terraform, PowerShell, and Azure CLI. Proficient in containerization with Docker and Azure Kubernetes Service (AKS). Strong documentation and communication skills facilitate effective team collaboration and knowledge sharing. Holds certifications in HashiCorp Terraform Associate and Azure Solutions Architect, with a master’s in data science.

Technical Skills

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| --- | --- |
| **Cloud Platforms** | Microsoft Azure (Compute, Storage, Networking, Security, Identity) |
| **Infrastructure as Code (IaC)** | Azure Resource Manager (ARM) templates, Terraform |
| **Scripting and Automation** | PowerShell, Azure CLI |
| **Continuous Integration/Continuous Deployment (CI/CD)** | Jenkins, GitHub Actions |
| **Monitoring and Logging** | Azure Monitor, Azure Diagnostics |
| **Networking** | Virtual Networks, VPN Gateway, Load Balancers |
| **Identity and Access Management (IAM)** | Azure Active Directory, Role-Based Access Control (RBAC), Multi-Factor Authentication (MFA) |
| **Security and Compliance** | Azure Security Center, Azure Policy, Network Security Groups |
| **High Availability and Disaster Recovery** | Azure Backup, Azure Site Recovery |
| **Containerization and Orchestration** | Azure Kubernetes Service (AKS), Docker |
| **Version Control** | GitHub, Bitbucket |
| **Operating Systems** | Windows, Linux |

Professional Experience

**Travelport, Englewood, CO**

Cloud Automation Engineer

Nov 2021 – till date

Project: Cloud Resource Automation Pipeline (CRAP)

* Orchestrated the creation of cloud resources using CI/CD pipelines, achieving a 90% reduction in manual intervention, and accelerating resource deployment time by 75%.
* Developed Azure Resource Manager (ARM) templates and Terraform scripts to define and provision infrastructure resources, resulting in a 60% reduction in configuration errors and ensuring consistent deployments across environments.
* Integrated Jenkins and GitHub Actions to automate the build, test, and deployment of cloud infrastructure, increasing deployment frequency by 80% and reducing deployment failures by 50%.
* Configured Azure Virtual Networks, VPN Gateways, and Load Balancers dynamically for each pipeline, optimizing network performance and achieving a 30% improvement in data transfer speeds.
* Role-Based Access Control (RBAC) and Multi-Factor Authentication (MFA) using Azure Active Directory (AAD) to enforce granular access controls, enhancing security posture, and achieving compliance with industry standards.
* Implemented cost management policies and resource tagging strategies, resulting in a 20% reduction in cloud infrastructure costs and enabling better cost allocation and tracking across departments.
* Configured Azure Monitor and Azure Diagnostics to monitor resource utilization and performance metrics, enabling proactive identification of bottlenecks and optimization opportunities, reducing downtime incidents by 40%.
* Created comprehensive documentation outlining deployment procedures, architecture diagrams, and troubleshooting guidelines, facilitating knowledge sharing among team members and reducing onboarding time by 30%.

**Environment:** Microsoft Azure, Jenkins, GitHub Actions, Azure Resource Manager (ARM), Terraform, Azure Virtual Networks, VPN Gateways, Load Balancers, Active Directory (AAD), Azure Monitor, Azure Diagnostics, Microsoft Office Suite

**Homesite Insurance, Boston, MA**

Cloud Engineer

Aug 2018 – Oct 2021

Project: Scalable Data Processing Pipeline

* Designed and implemented a scalable data processing pipeline using Azure Data Factory and Azure Blob Storage, reducing data processing time by 50% compared to previous manual processes.
* Deployed Docker containers on Azure Kubernetes Service (AKS) clusters, achieving 80% utilization of compute resources and enabling dynamic scaling based on workload demands.
* Implemented retry logic and error handling mechanisms, reducing pipeline failure rate by 70% and ensuring uninterrupted data processing operations.
* Integrated the pipeline with Azure Data Factory, Azure Blob Storage, and Azure Synapse Analytics (formerly SQL Data Warehouse), facilitating seamless data movement and analytics capabilities across the Azure ecosystem, resulting in a 60% improvement in data processing efficiency.
* Optimized pipeline performance, resulting in a 40% reduction in data processing costs while accommodating a 100% increase in data volume without impacting processing times.
* Configured Azure Monitor and Azure Diagnostics for monitoring and logging, reducing downtime incidents by 50% through proactive issue identification and resolution.
* Developed comprehensive documentation, reducing onboarding time by 30% and ensuring consistent pipeline management practices across the team.
* Conducted regular performance tuning exercises, resulting in a 20% reduction in infrastructure costs and a 25% improvement in pipeline efficiency over six months.

**Environment:** Microsoft Azure, Azure Data Factory, Azure Synapse Analytics (formerly SQL Data Warehouse), Azure Blob Storage, Azure Kubernetes Service (AKS), Azure Monitor, Azure Diagnostics, Microsoft Office Suite

Educational Details

* Master’s in Data Science|Rowan University, Glassboro NJ|December 2023|CGPA: 3.5
* Bachelors in Electronics and Communication Engineering|VFSTR, Vadlamudi AP|May 2021|CGPA: 3.6

Certificates and Projects

**Academic Projects**: Analyzed data and performed feature engineering using python.

**Certificates**: HashiCorp Terraform Associate – 003

Azure Solutions Architect - 305

Activities and Honors

* Volunteer in N.S.S and rendered service.
* Volunteered as event coordinator of mono action in srujanankura 2k16.
* Volunteered as event coordinator of photography in mahostav 2k18.