

Profile

Role: Analyst

Skills: VM ware, Azure, GCP

Goal: Cloud Engineer

Profile Analysis

Recommended Skills

Recommended Resources

Here are 5 recommended resources for the given profile:

1. Cloud Engineering Bootcamp | Course | Comprehensive training on cloud engineering principles and practices.
2. AWS Cloud Practitioner Essentials | Course | Introduction to Amazon Web Services and cloud computing concepts.
3. Designing and Implementing Cloud Data Platform | Book | Guide to designing and implementing cloud-based data platforms using Azure, GCP, and AWS.
4. Cloud Security Fundamentals | Tutorial | Overview of cloud security principles, compliance, and risk management.
5. Preparing for Google Cloud Professional Cloud Engineer Certification | Study Guide | Preparation guide for Google Cloud Professional Cloud Engineer certification, covering cloud engineering concepts and GCP services.

Learning Roadmap

To achieve the goal of becoming a Cloud Engineer, a focused learning plan is necessary. Given the current skills in VM ware, Azure, and GCP, the roadmap will build upon these foundations. Here's a week-by-week learning roadmap:

Week 1: Review and Deepen Current Knowledge

- Spend time reviewing VM ware, Azure, and GCP to ensure a solid understanding of each platform's core services and features.
- Focus on any gaps in knowledge, particularly in areas directly related to cloud engineering such as storage, networking, and security within these platforms.

Week 2: Networking Fundamentals

- Dive into networking fundamentals as they apply to cloud environments. This includes understanding subnets, VPNs, firewalls, and load balancers.
- Practice configuring networks in Azure, GCP, and on-premises environments to understand the differences and similarities.

Week 3: Security and Compliance

- Study security best practices for cloud environments, including identity and access management (IAM), key management, and data encryption.
- Learn about compliance frameworks relevant to cloud computing, such as HIPAA, PCI-DSS, and GDPR, and how to implement them in Azure and GCP.

Week 4: Scripting and Automation

- Learn scripting languages relevant to cloud automation, such as Python, PowerShell, or Bash.
- Practice automating tasks in Azure and GCP using their respective automation tools (e.g., Azure

Automation, Cloud Functions).

Week 5: Architecture and Design

- Study cloud architecture patterns, including microservices, event-driven architecture, and serverless computing.
- Practice designing cloud architectures for various scenarios, considering scalability, reliability, and cost-effectiveness.

Week 6: Cloud Migration and Deployment

- Learn strategies for migrating applications to the cloud, including lift and shift, re-architecture, and hybrid approaches.
- Practice deploying applications to Azure and GCP, using containerization (Docker) and orchestration (Kubernetes) tools.

Week 7: Monitoring, Logging, and Cost Optimization

- Study tools for monitoring and logging in cloud environments, such as Azure Monitor, GCP Logging, and third-party solutions.
- Learn techniques for optimizing cloud costs, including right-sizing resources, using reserved instances, and implementing cost allocation tags.

Week 8: Specialized Cloud Services

- Explore specialized cloud services such as artificial intelligence (AI), machine learning (ML), data analytics, and the Internet of Things (IoT).
- Learn how to integrate these services into cloud architectures to enhance application capabilities.

Week 9: Case Studies and Projects

- Apply the knowledge gained by working on case studies or personal projects that involve designing, deploying, and managing cloud-based systems.
- Focus on solving real-world problems or improving existing systems by applying cloud computing principles.

Week 10: Certification Preparation

- Prepare for cloud engineering certifications, such as the AWS Certified Solutions Architect - Associate (although you're focused on Azure and GCP, having a broad understanding is beneficial), Microsoft Certified: Azure Solutions Architect Expert, or Google Cloud Certified - Professional Cloud Architect.
- Review exam formats, practice with sample questions, and ensure all learning objectives are met.

Week 11-12: Final Project and Interview Preparation

- Work on a comprehensive final project that demonstrates mastery of cloud engineering skills, including design, deployment, security, and cost optimization.
- Prepare for job interviews by practicing common cloud engineering interview questions, updating your resume to highlight new skills, and preparing to discuss your projects and experiences.

This roadmap is a guideline and can be adjusted based on individual learning pace and specific interests within the field of cloud engineering. Consistency and practical application of knowledge are key to achieving the career goal.

Progress Tracker Summary

Week 1: Review and Deepen Current Knowledge | Score: 70 | Pass

Week 2: Networking Fundamentals | Score: 80 | Pass

Week 3: Security and Compliance | Score: 60 | Fail

Week 4: Scripting and Automation | Score: 70 | Pass

Week 5: Architecture and Design | Score: 57 | Fail

Week 6: Cloud Migration and Deployment | Score: 79 | Pass

Week 7: Monitoring, Logging, and Cost Optimization | Score: 87 | Pass

Week 8: Specialized Cloud Services | Score: 45 | Fail

Week 9: Case Studies and Projects | Score: 10 | Fail

Week 10: Certification Preparation | Score: 89 | Pass

Week 11-12: Final Project and Interview Preparation | Score: 68 | Fail