🚀 Welcome to Zero to Cloud – Your Journey to Becoming a GCP Engineer
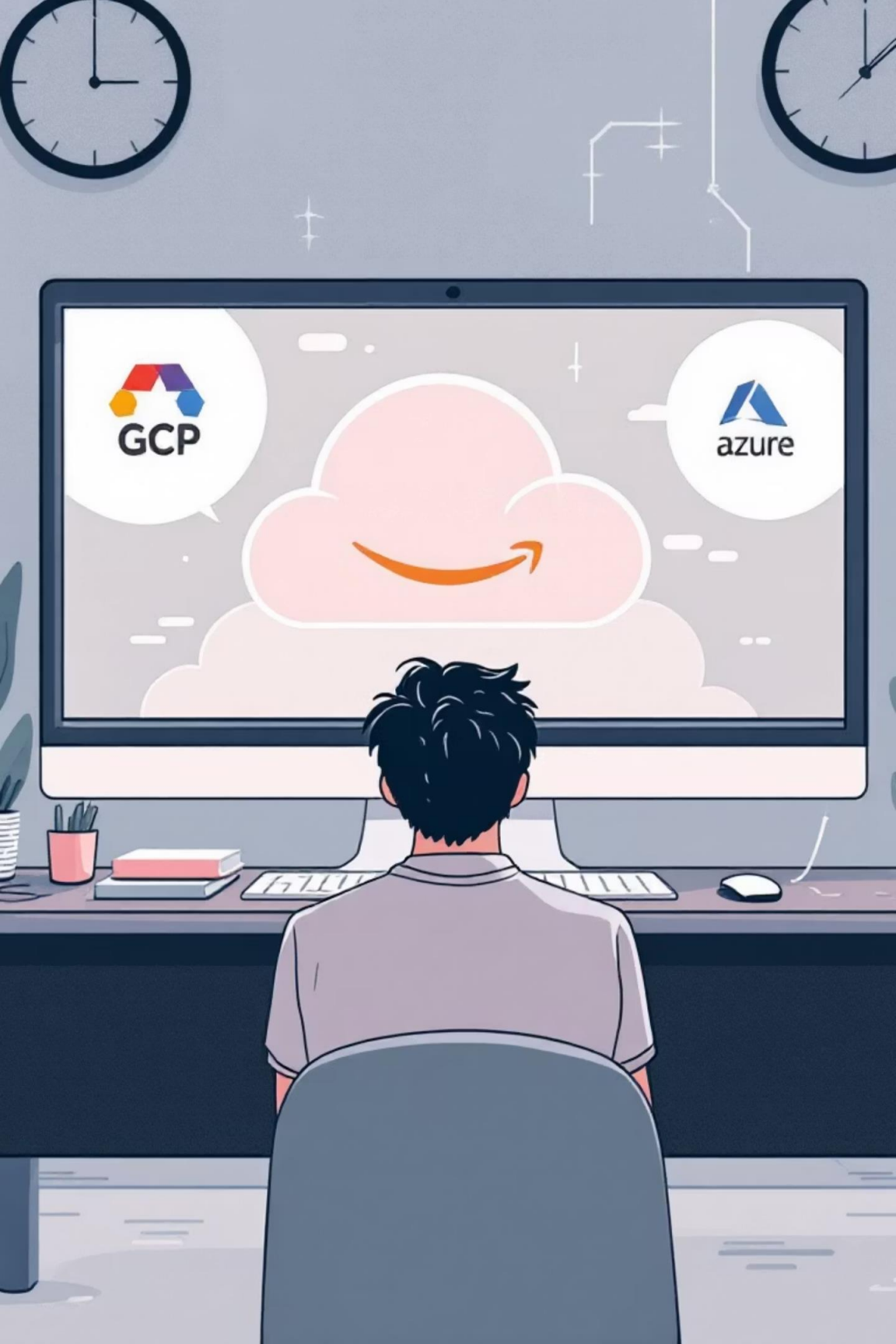
❗ Why Most People Struggle with Cloud Interviews

Interviews test practical application, not just rote knowledge. Failing to demonstrate hands-on experience is the number one career blocker.

💡 Learn Google Cloud the Right Way — With Hands-On Practice

Our mission is to bridge the gap between classroom knowledge and enterprise readiness. We focus on building, securing, and deploying actual solutions on GCP.

Foundational Theory

Mastering key GCP services and terminology.

Practical Labs

Configuring services and deploying infrastructure.

Interview Confidence

Articulating design choices and troubleshooting skills.

📚 Your Cloud Learning Roadmap: The Core Seven

This series covers the most critical and frequently used services you must master for any entry-level cloud engineering role.

Compute Engine (VMs)

Deploying and managing virtual machines.

VPC and Networking

Understanding subnetting, firewall rules, and routing.

Cloud Storage

Object storage tiers, lifecycle management, and access controls.

Kubernetes (GKE)

Managed container orchestration basics and cluster deployment.

Cloud Run

Serverless containers for highly scalable applications.

IAM & Security

Managing identities, roles, and principle of least privilege.

Monitoring & Logging

Using Cloud Monitoring and Logging to track health and troubleshoot issues.
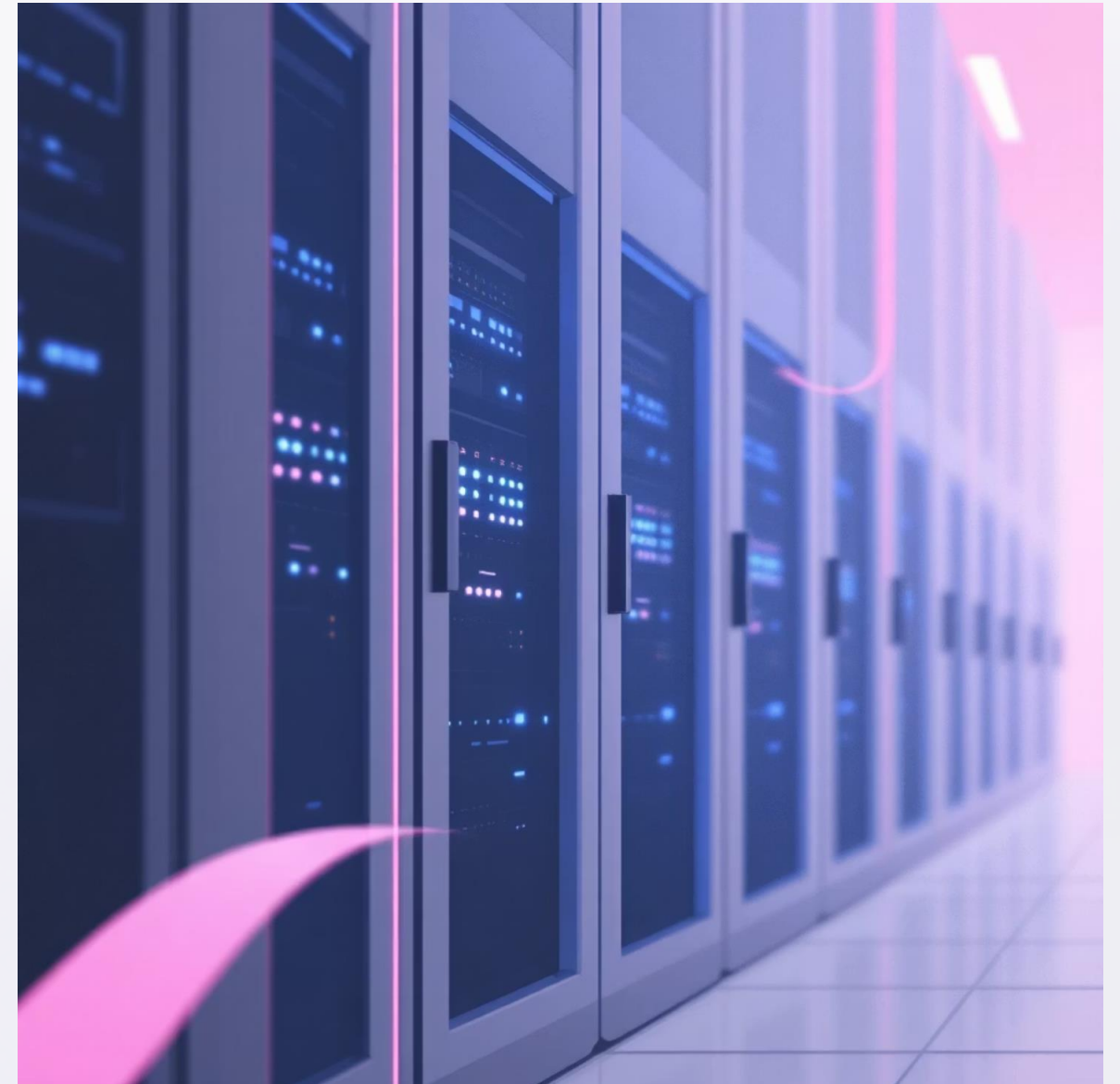
Diving Deeper: Virtual Machines (VMs)
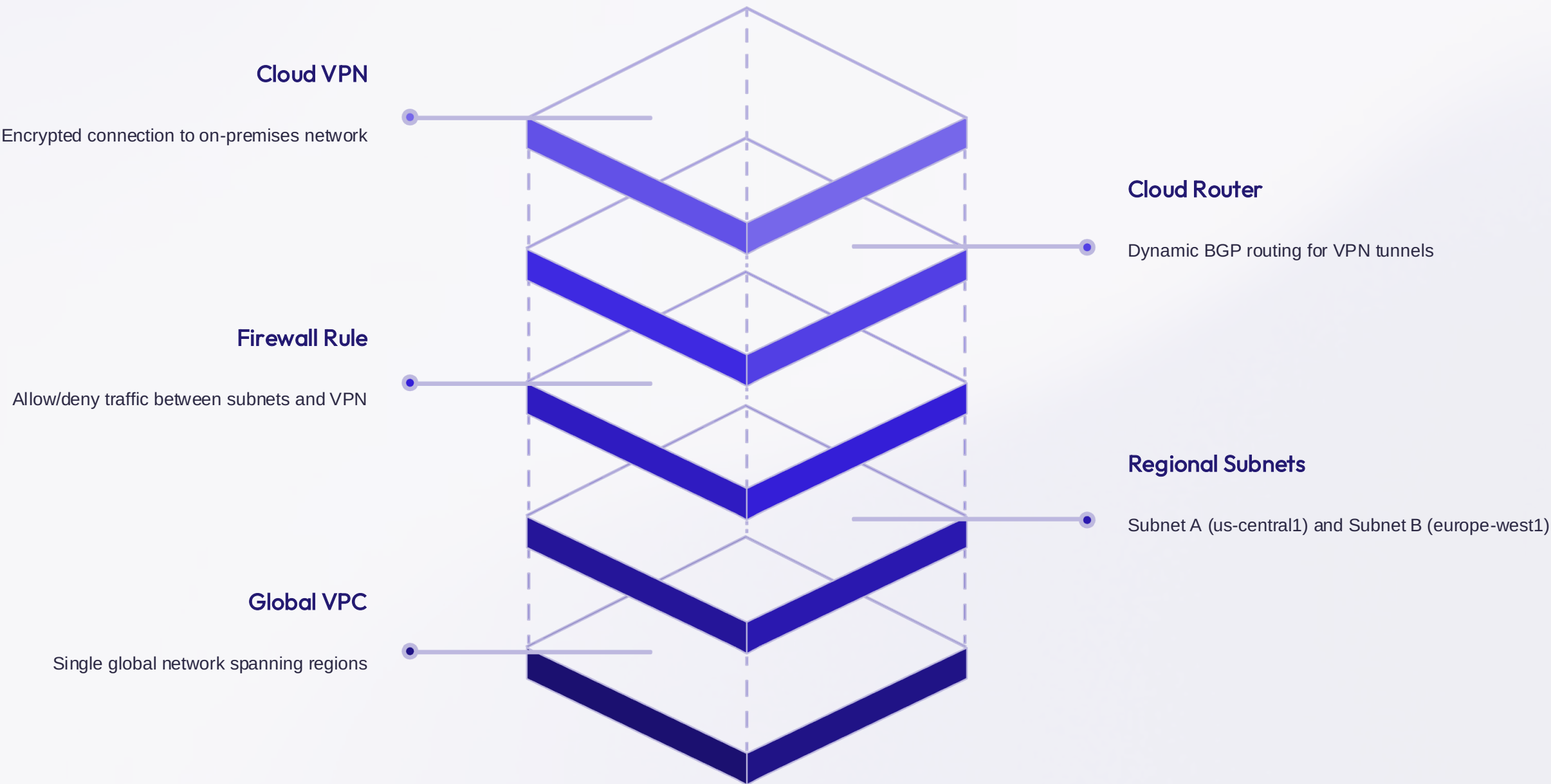
Compute Engine Essentials

Compute Engine is the foundation for IaaS (Infrastructure as a Service) on GCP. You need to know how to deploy, manage, and optimize VMs efficiently.

- Instance types and machine families

- Persistent disks and snapshotting

- Metadata and startup scripts for automation

Focus on practical scenarios like autoscaling groups and setting up custom network tags.

Mastering GCP Networking: The VPC

Cloud VPN

Encrypted connection to on-premises network

Cloud Router

Dynamic BGP routing for VPN tunnels

Firewall Rule

Allow/deny traffic between subnets and VPN

Regional Subnets

Subnet A (us-central1) and Subnet B (europe-west1)

Global VPC

Single global network spanning regions

The Virtual Private Cloud (VPC) is the global, software-defined network that connects your resources. A solid understanding of networking is essential for security and

Storage Strategy: Cloud Storage Buckets

Standard

For frequently accessed data (e.g., website assets). **High availability.**

Nearline

Data accessed less than once a month (e.g., backups). **Lower cost.**

Coldline

Data accessed less than once a quarter (e.g., disaster recovery). **Minimal access.**

Archive

Data accessed less than once a year (e.g., regulatory compliance). **Lowest cost, highest retrieval fee.**

Choosing the right storage class is critical for both performance and cost optimization on GCP.

Made with GAMMA

Containers and Serverless: The Future of Deployment

Kubernetes Engine (GKE)

Use GKE for complex, stateful applications requiring fine-grained control over the cluster infrastructure.

Containers (like GKE and Cloud Run) are mandatory knowledge. Focus on understanding the differences and when to choose one over the other.

Cloud Run

Ideal for simple web services and APIs. Provides maximum scalability with zero server management overhead.

🔑 Key Takeaway: Adopt the Builder Mentality

To succeed as a GCP Engineer, you must shift your perspective from being a passive learner to an active builder.

Use the Free Tier

Sign up for GCP's free tier and start deploying services immediately. Hands-on time is invaluable.

Automate Everything

Learn Infrastructure as Code (IaC) with tools like Terraform. Manual clicking is a job killer.

Troubleshoot Daily

When something breaks, don't just fix it—document the "why" and "how" you fixed it. This builds real-world expertise.

Ready to start building? Let's dive in!