

# Cloud Computing

## 1. OVERVIEW

### Introduction:

Cloud computing has become a foundational technology for modern IT infrastructure and software delivery. According to recent guides, a structured roadmap helps learners move from fundamentals through platform proficiency to advanced topics and cloud-engineering roles.

In this document, we outline key stages of learning, recommended skills, certifications, and videos to guide your path.



### Foundations

#### **What to learn:**

- Basic IT & computer science fundamentals: operating systems, networking, databases, basic programming
- Understanding what “cloud computing” means: service models (IaaS, PaaS, SaaS), deployment models (public, private, hybrid).
- Basic Linux/command line, version control (Git).

## 2. REFERENCES / LEARNING RESOURCES

▶ Beginner's Guide: Practical Cloud Computing Roadmap

#### **Playlist:**

🔗 [https://www.youtube.com/playlist?list=PLEiEAq2VkJUUIJ3o1tehvtux0\\_Ynf42CBN](https://www.youtube.com/playlist?list=PLEiEAq2VkJUUIJ3o1tehvtux0_Ynf42CBN)

#### **Advanced Topics & Certifications:-**

#### **What to learn:**

Multi-cloud and hybrid-cloud strategies. Edge computing, federated cloud/edge architectures.

Big Data & analytics services, AI/ML integration with cloud.🔗 [DataCamp](#)

Certifications such as AWS Solutions Architect, Azure Administrator/Architect, GCP Associate Cloud Engineer.

▶ Cloud Engineer Roadmap | From Beginner to Advanced

### **3. TIPS FOR SUCCESS**

- Hands-on experience is critical: use free tiers, build your own projects.
- Document your journey (blog, GitHub) to showcase your skills.
- Join cloud communities (Reddit, LinkedIn groups) to stay updated.
- Continuously update your knowledge, cloud evolves fast.
- Choose one platform first, then expand to others.

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