CLOUD NETWORKING ENGINEER WITH GENERATIVE AI SPECIALIZATION

Course Brochure

Become a Cloud Networking Engineer with our cutting-edge program. Gain in-depth
understanding and hands-on experience in multi-cloud environments, focusing on AWS and GCP. Our course includes multiple practical labs for comprehensive learning

Duration of course: 160 hours (120 hours theory and practicals, 40 hours project work)

Benefits
- Course completion certificate
- Internship assistance for students -
Placement assistance for working professionals and recent graduates

For further details, visit our website: www.kloudstac.com

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KloudStac
Prep for future tech careers
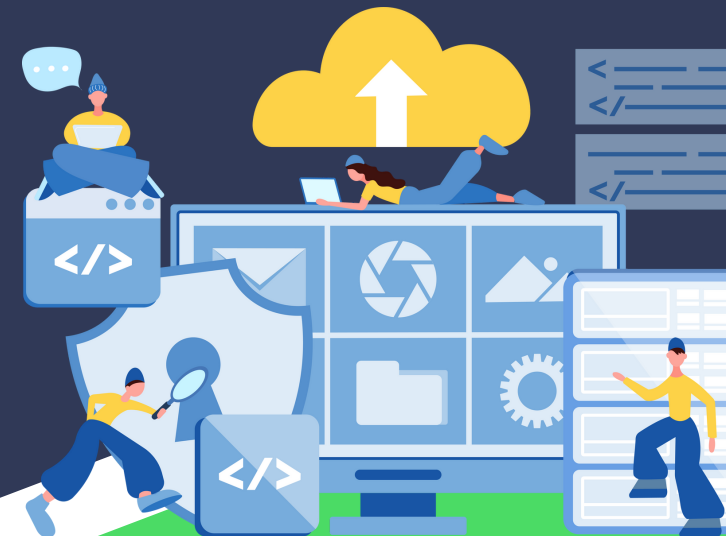
TOPICS COVERED:

-Basics of networking, cloud infrastructure, and distributed systems
-Understanding layers, protocols, and interfaces
-Services, protocols, and relation
- OSI and TCP/IP reference models
-Cloud Networking: Physical, Data Link, Network, Transport, Session, and Presentation Layers
-Protocols: TCP/IP, UDP, ARP, ICMP, TLS/MTLS, SSL, HTTP, HTTPS
-Network Architecture: Perimeter Model, Private IP Address, Network Address Translation, Firewall, IDS/IPS, Proxy, Whitelisted Application
- Characteristics of good network architecture: CDN, self-healing design, scalability, reliability, disaster recovery
-AWS Networking services: VPC, DNS, DHCP, Peering, Endpoints, Gateways, VPN, Direct Connect, Transit Gateway, CloudFront, Traffic management, Load balancing

-Networking performance metrics: Latency, Jitter, Bandwidth, Protocols, Locations, Traffic patterns, Throughput, Encryption, Inspection, Routing rules
-Foundational, application, edge, hybrid, security networking characteristics -Resilient Architecture: Disaster Recovery. Back up and Restoration, Point in Time Recovery.
'BackUp Cross Region, Continuous Data Replication, Warm Standby, Multi-Site Active Active
-End-to-End performance metrics with tracing tools: AWS X-Ray, CloudWatch RUM
-Load Balancing and encryption offloading: Latency requirements, Tuning, Performance bottlenecks
-Low latency apps on AWS: Games, High-Frequency Trading, Banking Apps (HSBC, Stripe,AQR)
- Teleport: Fast, secure, scalable Identity-Native Infrastructure Access
- Doubt Clearing Session

And more!

Practical sessions will cover automation using Python/Shell scripting and how AI/ML and ChatGPT can automate tasks.

☆Who should attend:
-Students: Engineering (CS, IT, others), MCA (2nd yr to final yr), recent passouts/freshers interested in Cloud engineering. Generative AI, and DevOps.

-Experienced Professionals: Software professionals (1-6 yrs exp) in backend/frontend development, application maintenance & support, testing, mainframes. project/sales/pre-sales/delivery managers, and others aspiring to enter the software industry.

☆Prerequisites
Basic Python programming knowledge and basic cloud knowledge are good-to-have