CB

CloudBridge DevOps Consulting

Multi-Cloud Engineering Program

Master AWS, Azure & GCP — Design, deploy and manage production infrastructure across all three major cloud platforms with Terraform Infrastructure as Code.

Duration	Mode	Fee	Placement
12 Weeks	Live Online + Offline (Hyd)	Rs 80,000 (one-time)	100% Assurance

Designed for: Australia | United States | Canada | Singapore | Germany | India (Offline)

Target Audience: Onsite Professionals | Domain Change Professionals | IT Engineers

Tools & Technologies Covered:

AWS (EC2, VPC, S3, RDS, EKS, Lambda, IAM, CloudWatch) | Azure (VMs, AKS, VNet, AD, DevOps, Monitor) | GCP (GKE, Compute, Cloud Functions, IAM) | Terraform | CloudFormation | ARM Templates

Contact Us

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Detailed Curriculum

Module 1 Cloud Computing Fundamentals

Topics

- Introduction to Cloud Computing: IaaS, PaaS, SaaS
- Public vs Private vs Hybrid Cloud models
- Cloud service comparison: AWS vs Azure vs GCP
- Multi-cloud strategy and when to use it
- Cloud economics and Total Cost of Ownership (TCO)
- Cloud migration strategies: 6 Rs framework
- Shared Responsibility Model
- Compliance and governance in multi-cloud

Hands-on Practice

- Create free-tier accounts on AWS, Azure, GCP
- Navigate cloud consoles and CLI tools
- Compare pricing calculators across providers
- Design a multi-cloud architecture diagram

Module 2 AWS Core Services

Topics

- EC2: Instance types, AMIs, launch templates, auto-scaling
- VPC: Subnets, route tables, NAT, Internet Gateway, security groups
- S3: Buckets, policies, lifecycle rules, versioning, encryption
- RDS: Multi-AZ, read replicas, Aurora, backup strategies
- IAM: Users, roles, policies, MFA, cross-account access
- EKS: Managed Kubernetes, node groups, Fargate
- Lambda: Serverless functions, event-driven architecture
- CloudWatch: Metrics, logs, alarms, dashboards
- Route53: DNS, health checks, routing policies
- CloudFormation: Infrastructure as Code, nested stacks

Hands-on Practice

- Deploy multi-tier application on EC2 with ALB
- Configure VPC with public/private subnets and NAT
- Set up S3 static website with CloudFront CDN
- Launch RDS with multi-AZ and automated backups
- Create IAM roles with least-privilege policies
- Deploy EKS cluster with managed node groups

Module 3 Microsoft Azure Services

Topics

- Azure VMs: Availability sets, scale sets, spot instances
- Azure VNet: NSGs, Azure Firewall, VPN Gateway, peering
- Azure Storage: Blob, File, Queue, Table storage tiers
- Azure SQL: Managed instance, elastic pools, geo-replication
- Azure Active Directory: RBAC, managed identities, conditional access
- AKS: Azure Kubernetes Service, virtual nodes, Azure CNI
- Azure Functions: Durable functions, bindings, triggers
- Azure Monitor: Log Analytics, Application Insights, alerts
- Azure DevOps: Boards, Repos, Pipelines, Artifacts

Hands-on Practice

- Deploy VM scale set with load balancer
- Configure VNet peering and Network Security Groups
- Set up AKS cluster with Azure CNI networking
- Create Azure DevOps CI/CD pipeline
- Implement RBAC with Azure AD managed identities

Detailed Curriculum (continued)

Module 4 — Google Cloud Platform (GCP)

Topics

- Compute Engine: Machine types, preemptible VMs, instance groups
- VPC: Firewall rules, shared VPC, Cloud NAT, Cloud Armor
- Cloud Storage: Classes, lifecycle management, transfer service
- Cloud SQL / Cloud Spanner: Regional and multi-regional databases
- IAM: Service accounts, workload identity, organization policies
- GKE: Google Kubernetes Engine, Autopilot, workload identity
- Cloud Functions: Gen 2, Cloud Run, event-driven
- Cloud Monitoring: Stackdriver, uptime checks, SLOs

Hands-on Practice

- Deploy application on GKE Autopilot cluster
- Configure shared VPC with multiple projects
- Set up Cloud SQL with high availability
- Implement GCP IAM with service accounts
- Create Cloud Monitoring dashboards and alerts

Module 5 — Terraform for Multi-Cloud IaC

Topics

- Terraform fundamentals: HCL syntax, providers, state
- Resource management: Create, update, destroy lifecycle
- Variables, outputs, locals, data sources
- Modules: Reusable components, module registry
- State management: Remote backends, state locking, workspaces
- Terraform Cloud / Terraform Enterprise
- Provider-specific modules for AWS, Azure, GCP
- Terragrunt for DRY infrastructure code
- Policy-as-code with Sentinel and OPA

Hands-on Practice

- Write Terraform modules for AWS VPC + EKS
- Create Azure infrastructure with Terraform
- Deploy GCP resources with Terraform
- Implement remote state with S3/Azure Blob/GCS
- Multi-cloud deployment from single Terraform project

Module 6 — Cloud Networking & Security

Topics

- Cross-cloud networking: VPN, peering, interconnect
- DNS management across cloud providers
- Load balancing strategies: Global vs regional
- CDN and edge computing: CloudFront, Azure CDN, Cloud CDN
- Cloud security: Encryption at rest and in transit
- Key management: KMS, Azure Key Vault, Cloud KMS
- WAF and DDoS protection across clouds
- Compliance: SOC 2, HIPAA, GDPR considerations

Hands-on Practice

- Set up site-to-site VPN between AWS and Azure
- Configure multi-cloud DNS with failover
- Implement encryption with cloud-native KMS
- Set up WAF rules for web applications

Detailed Curriculum (continued)

Module 7 FinOps & Cost Optimization

Topics

- FinOps principles and framework
- Cost allocation: Tags, labels, cost centers
- Reserved Instances, Savings Plans, Committed Use Discounts
- Spot/preemptible instance strategies
- Right-sizing and resource optimization
- Cost monitoring and alerting tools
- Automated scheduling for dev/test environments
- Multi-cloud cost comparison and optimization

Hands-on Practice

- Set up cost allocation tags across clouds
- Create automated scheduling with EventBridge/Lambda
- Build cost dashboards and budget alerts
- Analyze and optimize real infrastructure costs

Capstone Project

Every student completes a **full end-to-end production deployment project** — from application inception through CI/CD pipeline creation, security scanning, infrastructure provisioning, container orchestration, monitoring setup, and production release. This is NOT a demo — this is a real production-grade deployment.

- Complete application code to multi-cloud production deployment
- Automated CI/CD pipeline with security gates and quality checks
- Infrastructure as Code with Terraform modules
- Kubernetes deployment with Helm charts and ArgoCD GitOps
- Full monitoring, alerting, and incident response setup
- Cost optimization and automated scheduling
- Complete documentation and architecture diagrams

Batch Schedule & Enrollment

Next Batch: **27th February 2026**

Country	Schedule	Timing
Australia	MON-FRI (12 Weeks)	6:30 PM - 8:30 PM AEST
US / Canada	MON-FRI (12 Weeks)	8:00 PM - 10:00 PM EST
Singapore	MON-FRI (12 Weeks)	7:00 PM - 9:00 PM SGT
Germany	MON-FRI (12 Weeks)	7:00 PM - 9:00 PM CET
India (Offline)	MON-FRI (12 Weeks)	10:00 AM - 1:00 PM IST

Course Fee: Rs 80,000 (One-time Single Payment)

This is 100% real-time production-based training, not pre-recorded theory.

100% Placement Assurance | Lifetime Access to Recordings | Dedicated Mentor

Enroll Now:

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