

| AWS Services Reference | | | |
|--|-------------|---|---|
| Essential Amazon Web Services Overview | | | |
| Category | Service | What it is | Use Case |
| Compute | EC2 | Virtual server in the cloud | Full control over server setup |
| | Lambda | Run code without managing servers | Backend triggers / short functions |
| | ECS | Deploy & manage containers | Run Docker apps at scale |
| | Lightsail | Simple virtual servers with bundled resources | Easy VPS for quick deployments |
| Storage | S3 | Object storage for files | Images, videos, backups, static assets |
| | EBS | Block storage for EC2 | Attach as virtual hard disk |
| | Glacier | Cold (archival) storage | Long-term backups |
| | EFS | Shared file system for Linux instances | Scalable shared storage across EC2 |
| Database | RDS | Managed SQL database | PostgreSQL, MySQL, etc. |
| | DynamoDB | NoSQL database | High-speed, serverless DB |
| | ElastiCache | In-memory caching | Speed up app/database queries |
| | Redshift | Data warehouse | Analytics & reporting over large datasets |
| Networking | VPC | Isolated virtual network | Set up private cloud environment |
| | Route 53 | DNS and domain service | Link frontend, domains & APIs |
| | CloudFront | Global CDN | Fast delivery of static content |
| | API Gateway | Manage REST/HTTP APIs | Secure API endpoints for apps |
| Security | IAM | Identity & access control | Secure service permissions |
| | KMS | Key Management for encryption | Encrypt stored data (S3, RDS etc.) |
| | Cognito | User authentication & login | Add sign-in to apps easily |
| | Shield | DDoS protection service | Protect against DDoS attacks |
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