| Compute | |
|---|---|
| EC2 | Virtual servers; you manage the OS — resizable, pay-as-you-go |
| Lambda | Serverless functions — run code with zero servers, pay per execution |
| Elastic Beanstalk | PaaS — deploy apps without managing infrastructure |
| Auto Scaling | Adds/removes EC2 instances based on demand |
| ELB (ALB/NLB) | Distributes traffic across instances; ALB = HTTP, NLB = TCP/UDP |
| Compute | |

| Storage | |
|---|---|
| S3 | Object storage — 11 nines durability; classes: Standard, Intelligent-Tiering, Glacier |
| S3 Glacier | Archive storage — cheapest, retrieval in minutes to hours |
| EBS | Block storage for EC2 (like a virtual hard drive) |
| EFS | Shared file storage for multiple EC2 instances |
| Storage Gateway | Hybrid — connects on-premises storage to AWS |
| Storage | |

| Databases | |
|---|---|
| RDS | Managed relational DB (MySQL, Postgres, Oracle, SQL Server) |
| Aurora | AWS-built relational DB — MySQL/Postgres compatible, high performance |
| DynamoDB | Serverless NoSQL key-value — single-digit millisecond latency |
| Redshift | Data warehouse for analytics |
| ElastiCache | In-memory caching (Redis/Memcached) |
| Databases | |

| Networking | |
|---|---|
| VPC | Your isolated virtual network in AWS |
| Subnets | Public (internet-facing) vs private (no direct internet) |
| Security Groups | Stateful instance-level firewall (allow rules only) |
| NACLs | Stateless subnet-level firewall (allow + deny rules) |
| Route 53 | DNS service; IGW \| Internet Gateway — lets public subnets reach the internet |
| CloudFront | CDN — caches content at edge locations worldwide |
| Direct Connect | Dedicated private link from on-premises to AWS |
| Networking | |



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| Security & Identity | |
|---|---|
| IAM | Users, groups, roles, policies — least privilege, MFA on root |
| Shared Responsibility | AWS secures OF the cloud; you secure IN the cloud |
| KMS | Key Management Service — encryption keys |
| CloudTrail | Logs API calls (who did what) |
| CloudWatch | Metrics, alarms, and logs monitoring |
| GuardDuty / Inspector | Threat detection / vulnerability assessments |
| WAF / Shield | Web app firewall / DDoS protection |

Security & Identity

| Pricing & Support | |
|---|---|
| On-Demand | Pay per second, no commitment — most flexible, most expensive |
| Reserved Instances / Savings Plans | 1- or 3-year commitment for big discounts |
| Spot Instances | Bid on spare capacity — up to 90% off, can be reclaimed |
| CAF | Cloud Adoption Framework — 6 perspectives for migration planning |
| Support plans | Basic (free) → Developer → Business → Enterprise On-Ramp → Enterprise |
| Pricing Calculator / Cost Explorer / Budgets | Estimate, analyze, and alert on spend |

Pricing & Support

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