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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