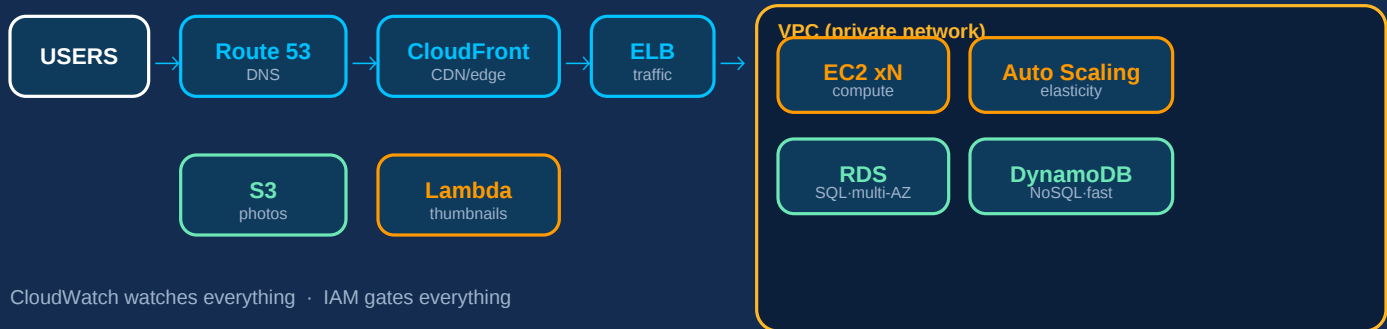


AWS: THE CORE 11

The Shutterbird architecture — every block, one page

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THE ARCHITECTURE



THE CORE 11 — WHAT EACH BLOCK DOES

EC2	Virtual servers; on-demand / reserved / spot pricing	<i>compute</i>
VPC	Your private network: public + private subnets, security groups	<i>network</i>
ELB + Auto Scaling	Spread traffic across AZs; add/remove servers with demand	<i>elasticity</i>
S3	Object storage in buckets; 11-nines durability; storage classes	<i>storage</i>
RDS	Managed SQL (Postgres/MySQL); Multi-AZ standby failover	<i>database</i>
DynamoDB	Serverless NoSQL; millisecond lookups at any scale	<i>database</i>
Lambda	Event-triggered functions; pay per millisecond; no servers to manage	<i>serverless</i>
CloudWatch	Metrics, logs, dashboards, alarms — including billing alarms	<i>monitoring</i>
CloudFront	CDN — caches content at edge locations near users	<i>delivery</i>
Route 53	DNS + routing policies (failover, geo, latency)	<i>delivery</i>
IAM	Users, groups, roles, policies — least privilege for people AND services	<i>security</i>

SHARED RESPONSIBILITY

AWS secures OF the cloud. You secure IN it.

EC2:	YOU patch the OS
RDS:	AWS patches; your data is yours
S3:	no OS — but access config is yours
Always yours:	data + who can access it
Day one: retire root user (MFA!) + IAM user for daily work	

BILL-SHOCK TRAPS

1. Forgotten instances — bill until TERMINATED
2. Egress + NAT gateways — data OUT costs; NAT bills hourly + per GB
3. Silent free-tier expiry — resources keep running, now billed

RITUAL: billing alarm FIRST, build second.

CERT PATH CLF-C02 Cloud Practitioner: domains 24/30/34/12 · ~65 Qs · 90 min · 700/1000 · ~\$100 → SAA-C03: the six-figure signal
Experienced in IT? Skipping straight to SAA is legitimate. (Verify current exam details — logistics drift.)

Interview one-liner: “RDS for relationships and complex queries; DynamoDB for simple lookups at massive speed.”

Free full course + hands-on Lesson 3 (launch your first EC2) → cloudcomputingtutor.com