

Route 53:

- The solution for DNS needs
- Domain Name System – system that translates human-readable URLs to IP addresses
- Route53 is core to letting users interact with services in AWS
- Route 53 health checks – Sets regular checks for given URL path

Summary:

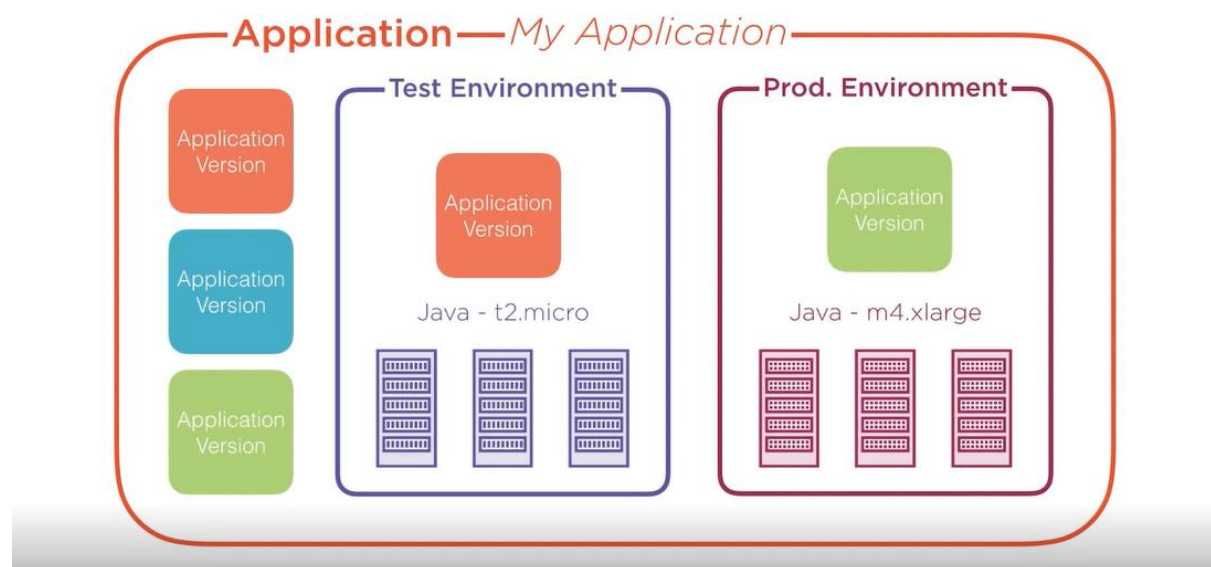
1. EC2 for computing
2. S3 for storage
3. RDS for databases
4. Route53 for URLs

Enhancing Your App with AWS Databases and Application Services

Elastic Beanstalk:

- The solution for your application needs
- Deploying app with ELB
 1. Easy deployment with various tools
 2. Set it and forget its configuration
 3. Aggregated monitoring and logging

Elastic Beanstalk Structure

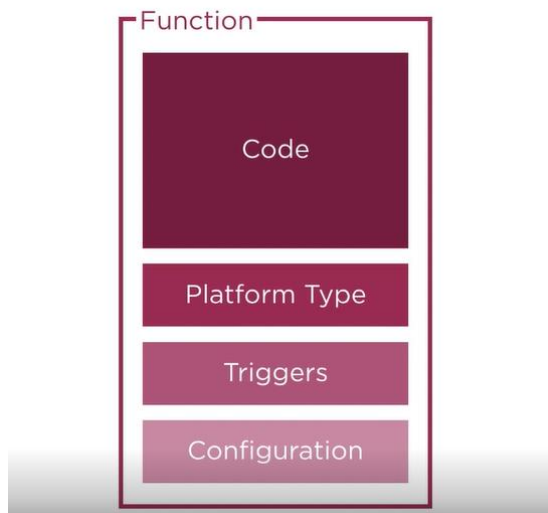


- Application versions are stored in S3
- Each application has a limit of 1000 versions
- Elastic beanstalk pricing – Free. You pay for EC2 instances, load balancers and S3 separately.

Lambda:

- The solution for your code execution needs
- Executes code
- No server management required
- Only pay when your code is running

Lambda Structure



- Lambda is good for small, irregular tasks

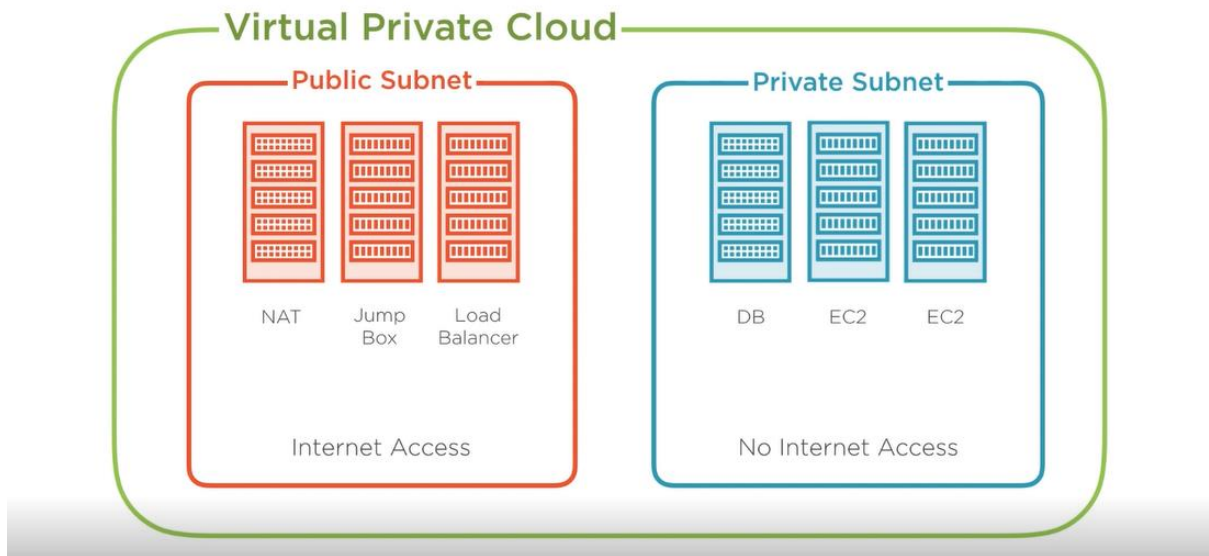
DynamoDB:

- The solution for NoSQL needs
- Unlimited, elastic storage
- No hardware choices
- Pay only for what you use
- Provisioned throughput capacity = number of read/write units per second
- Read – 4kb/unit
- Write – 1kb/unit

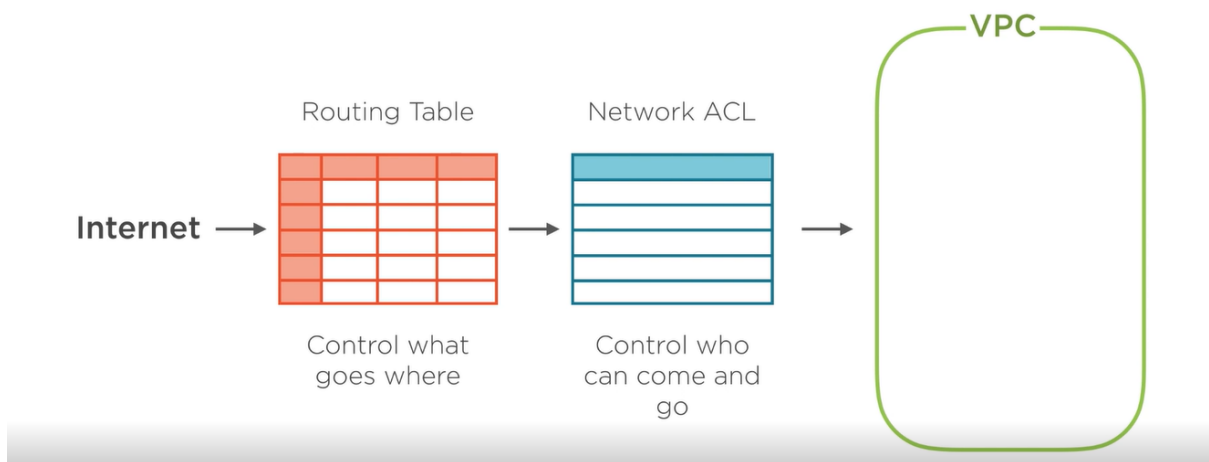
Virtual Private Cloud:

- The solution for your networking needs
- Security groups secure single instance
- VPC secure group of instances
- VPC features :
 1. Configure VPC routing tables
 2. Use NAT gateways for outbound traffic
 3. Internal IP address allocation

Virtual Private Cloud Structure



Virtual Private Cloud Security



- Basic VPC configuration is free

Cloudwatch:

- The solution for your monitoring needs
- Cloudwatch key functionality
 1. Monitoring resources
 2. Acting on alerts
- Cloudwatch alarms
- Alarm + Metric = Action : SMS notification / Autoscale EC2 instances

Cloudfront:

- The solution for your CDN needs
- Cloudfront easily works with S3, Route 53, EC2, Load balancer

CloudFront Structure



- Cloudfront configuration options:
 1. SSL certificates
 2. Allow http methods
 3. Edge locations