Get started Sign In You have 2 free member-only stories left this month. Sign up for Medium and get an extra one Prashant Lakhera Follow Mar 31, 2019 · 4 min read · → Member-only · ▶ Listen 100 Days of DevOps — Day 49-Introduction to Route53 Welcome to Day 49 of 100 Days of DevOps, Focus for today is Route53 What is AWS Route53? Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. You can use Route 53 to perform three main functions in any combination: Domain Registration DNS Routing • Health Checking **Key DNS Terms** A Record A record is used to translate human-friendly domain names such as "www.example.com" into IP-addresses such as 192.168.0.1 (machine friendly numbers). CNAME Record A Canonical Name record (abbreviated as CNAME record) is a type of resource record in the Domain Name System (DNS) which maps one domain name (an alias) to another (the Canonical Name.) • NameServer Record NS-records identify the DNS servers responsible (authoritative) for a zone. Amazon Route 53 automatically creates a name server (NS) record that has the same name as your hosted zone. It lists the four name servers that are the authoritative name servers for your hosted zone. Do not add, change, or delete name servers in this record. ns-2048 awsdns-64 com ns-2049 awsdns-65 net ns-2050.awsdns-66.org ns-2051.awsdns-67.co.uk • SOA Record A Start of Authority record (abbreviated as SOA record) is a type of resource record in the **Domain Name** System (**DNS**) containing administrative information about the zone, especially regarding zone transfers \$TTL 86400 example root.example.com (2 IN SOA 3 2018110201 ;Serial 3600 ;Refresh 1800 ;Retry 604800 ;Expire 86400 ; Minimum TTL 9 IN NS example 192.168.1.3 10 IN A 11 IN MX 10 example 12 example IN A 192.168.1.3 soa_record hosted with | by GitHub view raw **AWS Specific DNS Terms** Alias Record Amazon Route 53 alias records provide a Route 53-specific extension to DNS functionality. Alias records let you route traffic to selected AWS resources, such as CloudFront distributions and Amazon S3 buckets. They also let you route traffic from one record in a hosted zone to another record. Unlike a CNAME record, you can create an alias record at the top node of a DNS namespace, also known as the zone apex. For example, if you register the DNS name example.com, the zone apex is example.com. You can't create a CNAME record for example.com, but you can create an alias record for example.com that routes traffic to www.example.com. • AWS Route53 Health Check Amazon Route 53 health checks monitor the health and performance of your web applications, web servers, and other resources. Each health check that you create can monitor one of the following: The health of a specified resource, such as a web server The status of other health checks The status of an Amazon CloudWatch alarm Step1: Create a hosted zone Go to https://console.aws.amazon.com/route53 --> Hosted zones --> Create Hosted Zone Go to Record Sets Delete Hosted Zone \mathcal{C} 0 Hosted zones Health checks Traffic flow Traffic policies Policy records **Domains** Amazon Route 53 is an authoritative Domain Name System (DNS) service. DNS is the system that translates human-Registered domains readable domain names (example.com) into IP addresses (192.0.2.0), With authoritative name servers in data Pending requests centers all over the world, Route 53 is reliable, scalable, and fast. Resolver If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail Inbound endpoints Learn More Outhound endpoints Route 53 documentation and support Getting started guide | Route 53 documentation DNS is the system that translates human-readable domain names (example.com) into IP addresses (192.0.2.8) **Create Hosted Zone** A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains. **Domain Name:** route53-labs-12.com Comment: my test domain **Public Hosted Zone** Type: A public hosted zone determines how traffic is routed on the Internet. * Domain Name: You must need to purchase this domain either from your Domain Registrar or you can purchase from Amazon * Comment: Add some comment * Type: Public Hosted Zone(if purchased by a domain registrar) OR you can set Private Hosted Zone for Amazon VPC • The moment you create a hosted zone four NS and SOA record will be created for you. Value Evaluate Target Health Health Check ID Name Type Regi ns-1999.awsdns-57.co.uk. ns-1332.awsdns-38.org NS 172800 route53-labs-12.com. ns-816.awsdns-38.net. ns-404.awsdns-50.com. ns-1999.awsdns-57.co.uk, awsdns-hostmaster.amaz 900 route53-labs-12.com. SOA NOTE: Please don't change or alter these record. Step2: Create A record **Back to Hosted Zones Create Record Set** Import Zone File Delete Record Set **Test Record Set** Record Set Name Displaying 1 to 2 out of 2 Record Sets Any Typ liases Only >1 Type Value **Evaluate Target Health** Name Health Check ID Regi ns-1999.awsdns-57.co.uk. ns-1332.awsdns-38.org 172800 route53-labs-12.com. NS ns-816.awsdns-38.net. ns-404.awsdns-50.com. ns-1999.awsdns-57.co.uk. awsdns-hostmaster.amaz SOA 900 route53-labs-12.com. **Create Record Set** .route53-labs-12.com. Name: www A - IPv4 address Type: Alias: Yes No TTL (Seconds): +1m 5m 1h 1d 60 Value: 3.209.134.34 IPv4 address. Enter multiple addresses on separate lines. Example: 192.0.2.235 198.51.100.234 **Routing Policy:** Simple Route 53 responds to queries based only on the values in this record. Learn More * Name : www * Type: A-IPv4 address * Alias: No * TTL: Select +1m(60second) * Value: Public IP of your EC2 instance * Routing Policy: Simple You will see the record like this Name Value Evaluate Target Health Health Check ID TTL Type ns-1999.awsdns-57.co.uk. ns-1332.awsdns-38.org. route53-labs-12.com. 172800 ns-816.awsdns-38.net. ns-404.awsdns-50.com. ns-1999.awsdns-57.co.uk. awsdns-hostmaster.amaz 900 route53-labs-12.com. SOA 3.209.134.34 www.route53-labs-12.com Terraform Code resource "aws_route53_zone" "primary" { name = "example.com" 2 3 4 5 resource "aws_route53_record" "www" { 6 zone_id = "\${aws_route53_zone.primary.zone_id}" = "www.example.com" 9 type = "A" ttl = "300" 10 records = ["\${var.ec2_ip}"] 11 12 route53_a_record.tf hosted with \infty by GitHub view raw Looking forward from you guys to join this journey and spend a minimum an hour every day for the next 100 days on DevOps work and post your progress using any of the below medium. 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