**AWS Route 53 (Easy)**

**Parse the following DNS query log from AWS Route 53.**

**How many total requests are recorded in this log?**

Scroll to the bottom of the log and see what number the last entry is.

Answer: 4519

**What is the IP address of the resolver that made the largest number of requests?**

1. Open Linux terminal.
2. Move to whichever directory the .log file is stored in via the *cd* command.
   1. cd: current directory. Moves the user into the specified directory.
   2. E.g. “cd Downloads” moves the user into the Downloads folder.
3. Type in *cat route53.log | cut -d " " -f9 | sort*
   1. *|* separates commands, allowing multiple commands in one line.
   2. *cut* cuts specified sections of text out of view.
      1. *–d” “* creates a specified delimiter; in this case a space.
      2. *–f9* shows text in-b/w the 9th and 10th delimiter (if there is one); in this case IP addresses.
   3. *Sort* sorts the text alphanumerically.
4. Look through all the IP addresses and eyeball which ones are repeated heavily.

Answer: 155.225.66.25

**What is the least requested domain name?**

1. Type in *cat route53.log | cut -d " " -f4 | sort*
2. Look through all the domain names and eyeball which ones aren’t repeated.
   1. backup.cityinthe.cloud only queried once.

Answer: backup.cityinthe.cloud

**What is the client subnet (in CIDR notation) that made the largest number of requests?**

1. Type in *cat route53.log | cut -d " " –f10 | sort*
2. Look through all the CIDR notations and eyeball which ones are repeated the most.

Answer: 192.154.46.0/24

**Which minute of the day had the largest number of requests?**

1. Type in *cat route53.log | cut -d " " –f2 | sort*
2. Look through all the times and eyeball which ones are repeated the most.

Answer: 19:35

**Which city received the 10th largest number of requests?**

1. Complete the below question first.
2. us-east-1 has 3 city zones … brute force guess.

Answer: Miami

**What AWS region does cityinthe.cloud use for its Virtual Private Cloud?**

1. Go to <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>
2. Look up AWS zones.
   1. Only 4 zones in the US … brute force guess.

Answer: us-east-1