Jason's Weekly Summary

Week 7:

- **Done**
    - Bottlenose Lab: SSH and Perform the Commands to Make the Operations
    - Bottlenose Lab: Editor in Linux: Create and Modify Files
    - Bottlenose Lab: Test the Knowledge on Basic Networking and Web applications
    - Bottlenose Lab: Linux Security Overview
    - Bottlenose Lab: Managing Linux Services, Processes and Jobs
    - Bottlenose Lab: Linux Network Troubleshooting
    - Bottlenose Lab: Linux Filesystems and Filesystem Hierarchy Standard
    - Bottlenose Lab: System Libraries and Package Management Basics
    - Module 11: Linux networking

- **Main problem 1**:
    - **Solution 1**:

- **Plan for the next week**
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Week 6:

- **Done**
    - Canvas labs and modules
    - Project2: Networking project
    - Udemy SAA-C03 Notes
    - Udemy all sections

- **Main problem 1**: EC2 instance does not have a public IP address assigned despite enabling auto-assign public IP during launch.
    - **Solution 1**: need to enable the auto-assign public IP address setting in the **subnet configuration.**

- **Plan for the next week**
    - Gong to take the SAA exam by the end of the week
    - Linux ticket challenge

Week 5:

- **Done**
  - Bottlenose Lab: I cannot ping an instance which is in a peered VPC!
  - Bottlenose Lab: Unable to ping google.com from "PrivateInstance"
  - Bottlenose Lab: I cannot SSH into my instance even though it has a public IP
  - Bottlenose Lab: Unable to connect to 1 server while other connectivity is working fine.
  - Bottlenose Lab: Can't reach my website behind a load balancer
  - Networking Quiz
  - Cloud Foundations Project Narrative Version
  - Udemy & SAA notes: section: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
  - still working on → UNIX and Linux System Administration Handbook - section 13 TCP/IP networking

- **Main problem 1**: SIM ticketing
  - **Solution 1**: Resolved it by following the instructions from the link. Remember to clean up the services after exploring, especially on Friday since I won't check email that frequently.

- **Plan for the next week**
  - Keep preparing for the SAA
  - Networking project

Week 4:

- **Done**
  - Group Project: Cloud Foundations Presentation
  - Tech U Modules & Labs
  - Networking with Jeffrey Jsense:
    - I my position as an intern, I'm learning how to understand this about myself.
    - how do you deal with ambiguity?
      - Communicate
      - Prioritize tasks
      - Stay flexible

- **Main problem**: Not able to access the public IP address(VPC are correct setting)
  - **Solution**: SSH into the EC2 instance and check the status of the httpd service using command "***sudo systemctl status httpd.service***". If the service is inactive, use a command "***sudo systemctl start httpd.service***" to start the service and check the status again.

- **Plan for the next week**

- Keep preparing for the SAA, and hopefully, my goal is to take the SAA exam on Friday of week 6
- **Idea**: Notes Portal: try to set up a static website on S3, use CloudFront for CDN distribution, and access my pdf formatted notes through CloudFront URL. (The static web will display the names of all files, for example: setupVPC.pdf. When I click on the name, the website will redirect to examplecloudfront.net/notes/setupVPC)

Week 3:

- **Done**
  - Bottlenose Lab: Customize An Existing EC2 Instance
  - Bottlenose Lab: To create a database and table and insert data into the table in a mysql server. You can use the below links for reference.
  - Cloud Foundations Project demo video & PowerPoint
  - Explore services: S3, Glue, Athena, QuickSight, EC2, and RDS

- **Main problem 1**: Encounters issues importing data from Athena to QuickSight; tables do not appear in QuickSight
  - **Solution**: To ensure Athena and QuickSight are in the same region. (I attempted to resolve the issue through permission settings and IAM policy configurations without success, before finally realizing the problem was due to the region settings)

- **Main problems 2**: After assigning a secondary public IPv4 I used the secondary public login EC2 instance. However, the private IP address remained the same as the primary private IP assigned initially.
  - **Reason**: When we assign a secondary public IPv4 address to an Amazon EC2 instance, it does not automatically change the private IPv4 address of the instance. The secondary public IPv4 address is associated with the primary private IPv4 address of the instance. (The private IPv4 address is used for communication within the Virtual Private Cloud (VPC) and is not directly accessible from the internet. The public IPv4 address (primary or secondary) is used for communication over the internet.)

- **Main problem 3**: Failed to establish a connection between the MySQL database and the EC2 service. *(ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/lib/mysql/mysql.sock' (2))*
  - **Solution**: Need to configure the inbound rules in the Database security group
    - Select the SG in the database that is not included in the EC2 instance
      - Add an inbound rule with the type set to MySQL/Aurora.
      - Copy the SG ID from EC2 that is not in RDS to the source field

- **Plan for the next week**
  - Keep preparing SAA
  - Presentation of cloud foundation project
  - Tech U Canvas
  - Finish the Bottlenose Lab: EC2 instance failing Instance Status Checks

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Week 2:

- **Done**
  - Completed Week 2 Onboarding Plan
  - Networked with Surya Putluri and Madhuri Dandeboina:
    - Recommend completing the lab with fewer attempts
    - Encourage to connect with people who have recently transitioned from CSA to CSE
    - Prepare a weekly report and sharing the link with manger and mentor
    - Explore the RePost, and before answering any questions, consult with mentor or manager to double check the answer
    - Get familiar with the daily workflow as a CSE
  - Completed Tech U module
  - Pass CCP exam

- **Main problem**: During the lab where we replicated object between S3 buckets, I wondered why we need to set PassRole and GetRole in the IAM role policy, considering we already selected a specific role when creating the replication rule in S3
  - **Solution**: Reach out other Interns and mentor. Selecting a specific IMA role when creating an S3 replication rule does not automatically assign all the permissions set in that IAM role to the S3 service. Instead, it enables that S3 service to assume the role, but the specific permissions needed for replication(such as `PassRole` and `GetRole`) must still be explicitly granted in the IAM role policy.
  - *Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_passrole.html*

- **Plan for the next week**
  - Prepare for the group project scheduled for next Thursday
  - Review the reference link from the BottleNose Lab
  - Prepare for the Solutions Architect – Associate Certification
  - Learn and practice PL (Customer obsession, Earn Trust, Bias for action, Deliver Results, Learn and be curious, Ownership, Dive Deep)

Week 1:

- **Done**
  - Completed Day 1 & Week 1 in the Onboarding Plan
    - Familiarized with company culture and values
    - Get acquainted with commonly used tools and resources
  - Networked with Colleagues:
    - Learned about their job responsibilities and experiences
    - Established initial work contacts to lay the foundation for future collaboration
  - Registered for the CCP exam on May 24

- **Main problem**: unfamiliarity with internal processes and resources, leading to lower initial work efficiency
  - **Solution**: Actively sought guidance from colleagues to quickly familiarize with relevant processes; utilized company intranet resources for self-learning.

- **Plan for the next week**
  - Keep preparing for the CCP exam on next week Friday.
  - Keep working on KENT.
  - Preparing for the Tech U section.
  - Continue with the subsequent activities in the Onboarding Plan and maintain communication with team members, participate in more team activities to further understand team dynamics