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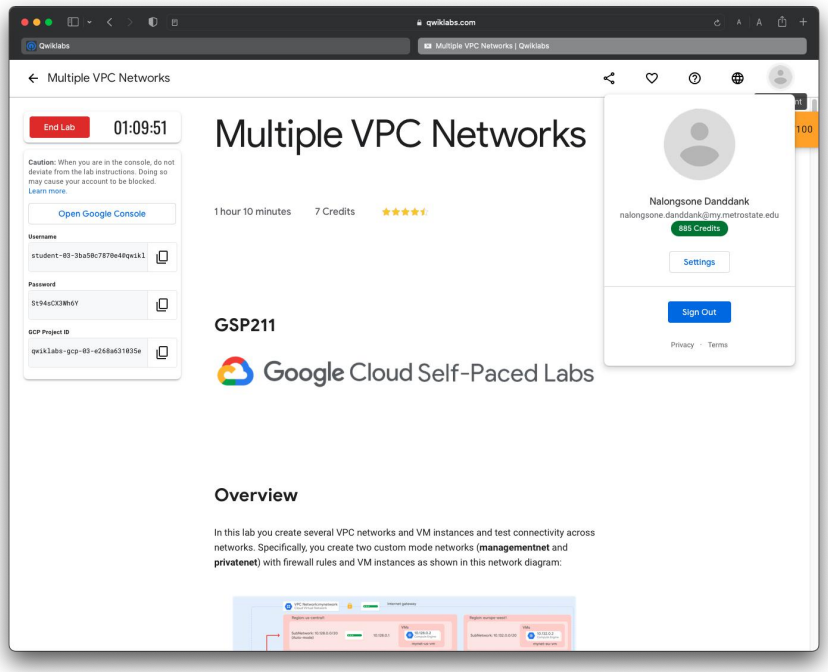
ICS 432 - 01 — Distributed and Cloud Computing Fall 2021

Lab #6 : Networking and Load Balancing in GCP

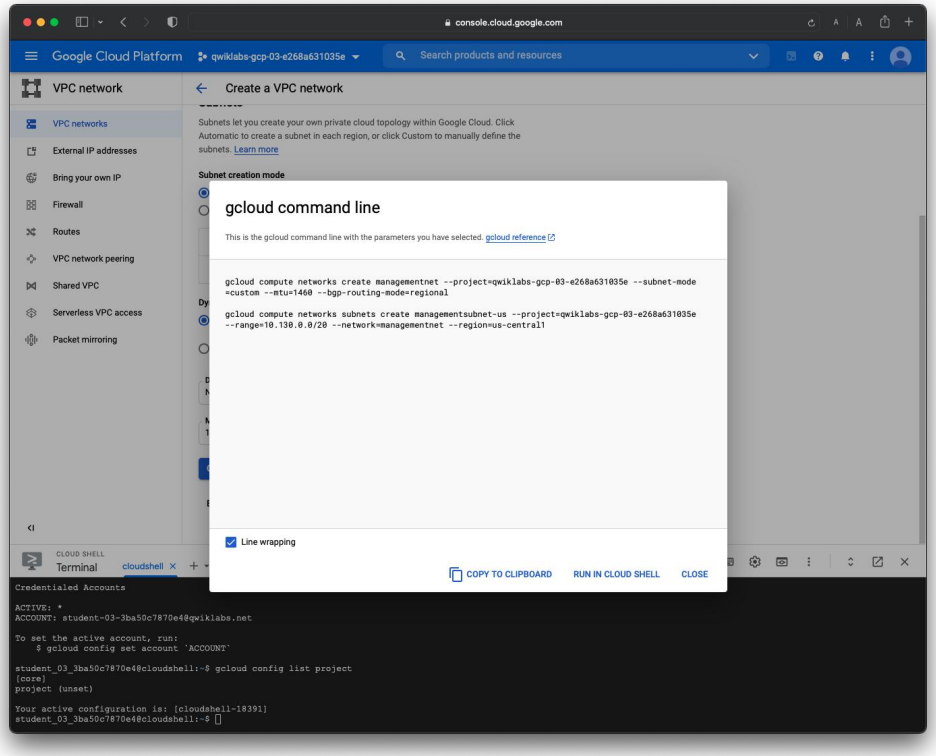
Exercise 1: Multiple VPC Networks.

Lab report screen-shot #1:

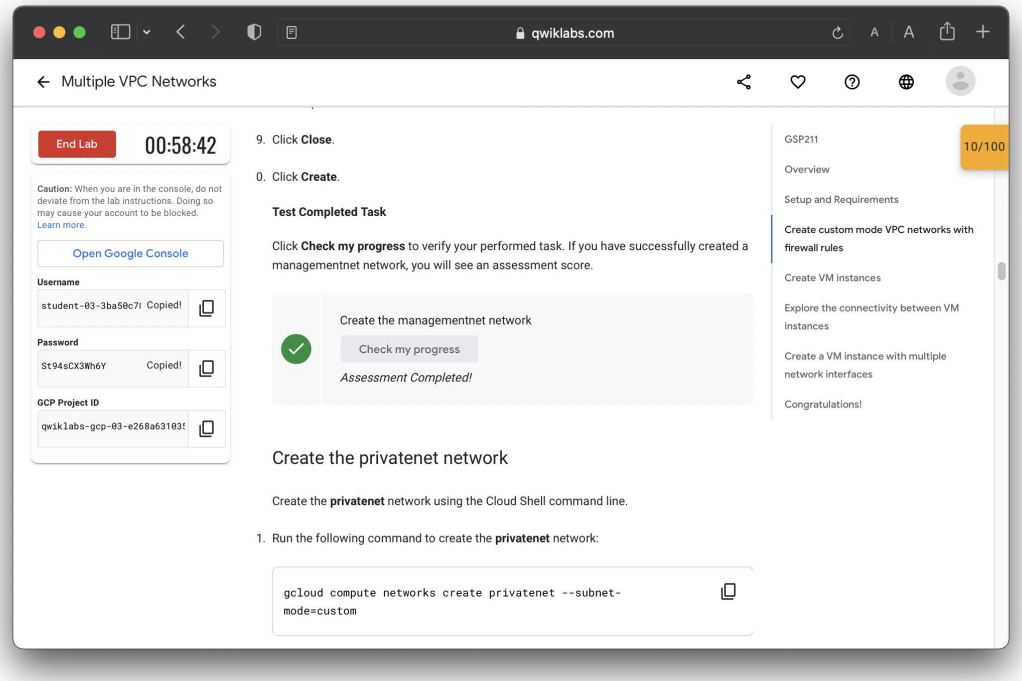


Lab report screen-shot #2:

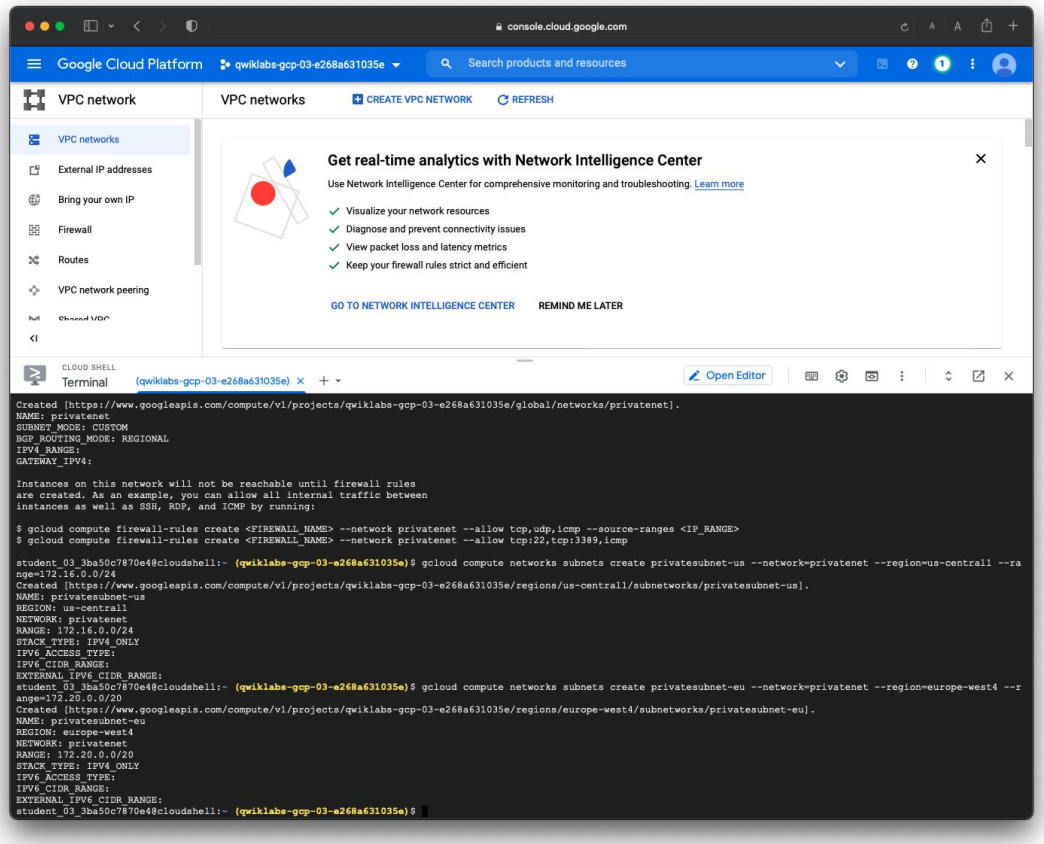
gcloud compute networks create managementnet --project=qwiklabs-gcp-03-e268a631035e --subnet-mode=custom --mtu=1460 --bgp-routing-mode=regional && gcloud compute networks subnets create managementsubnet-us --project=qwiklabs-gcp-03-e268a631035e --range=10.130.0.0/20 --network=managementnet --region=us-central1



Lab report screen-shot #3:



Lab report screen-shot #4:



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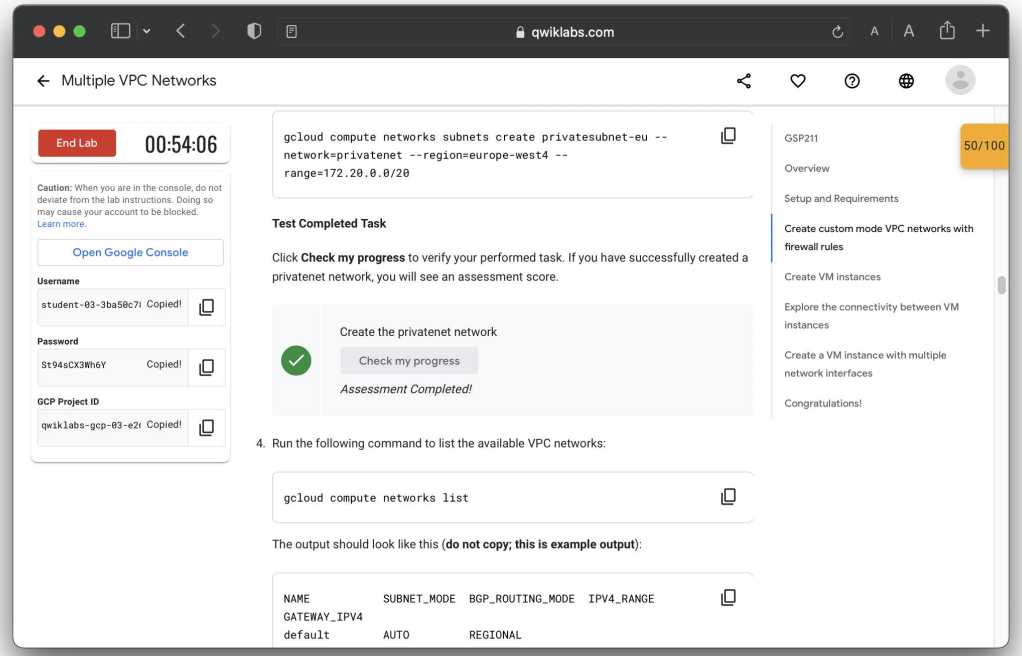

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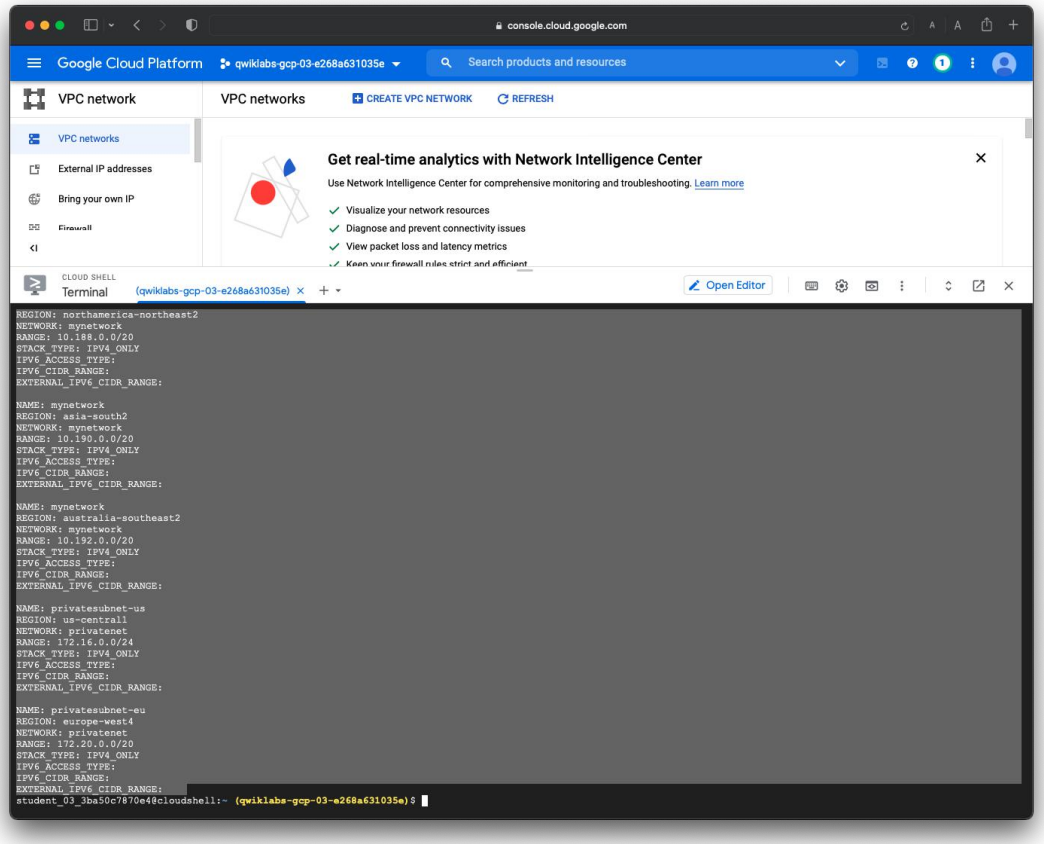
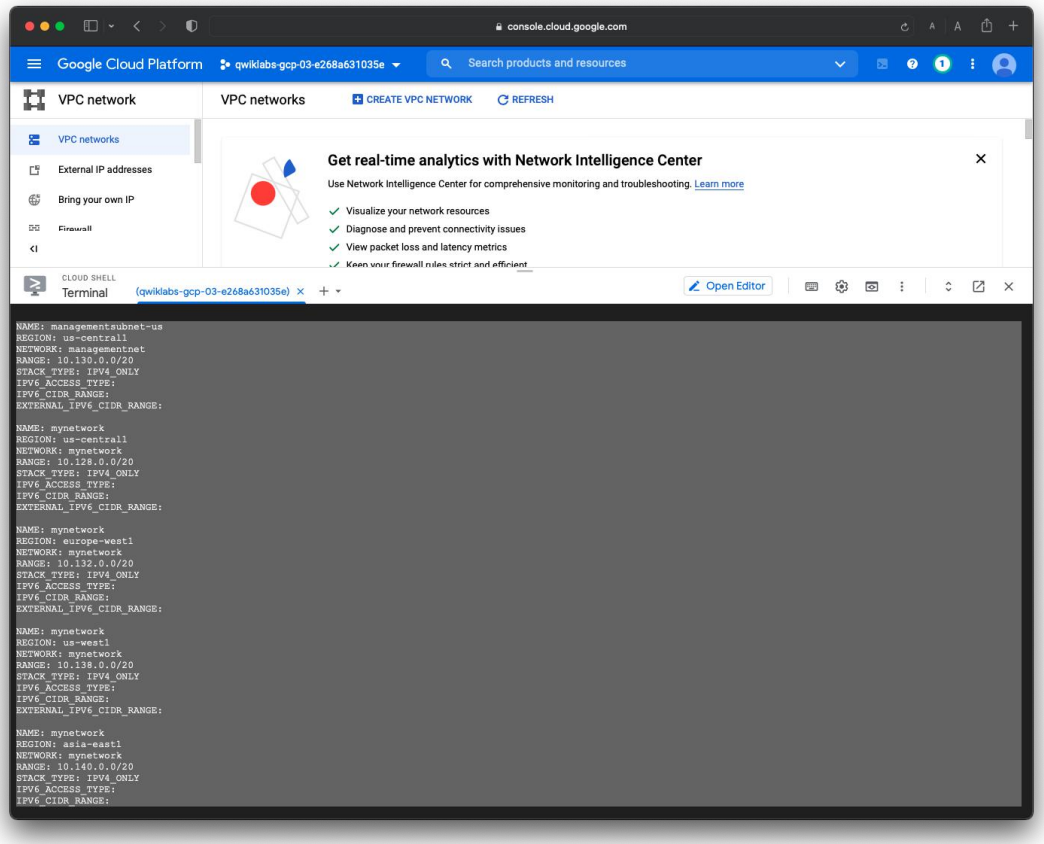
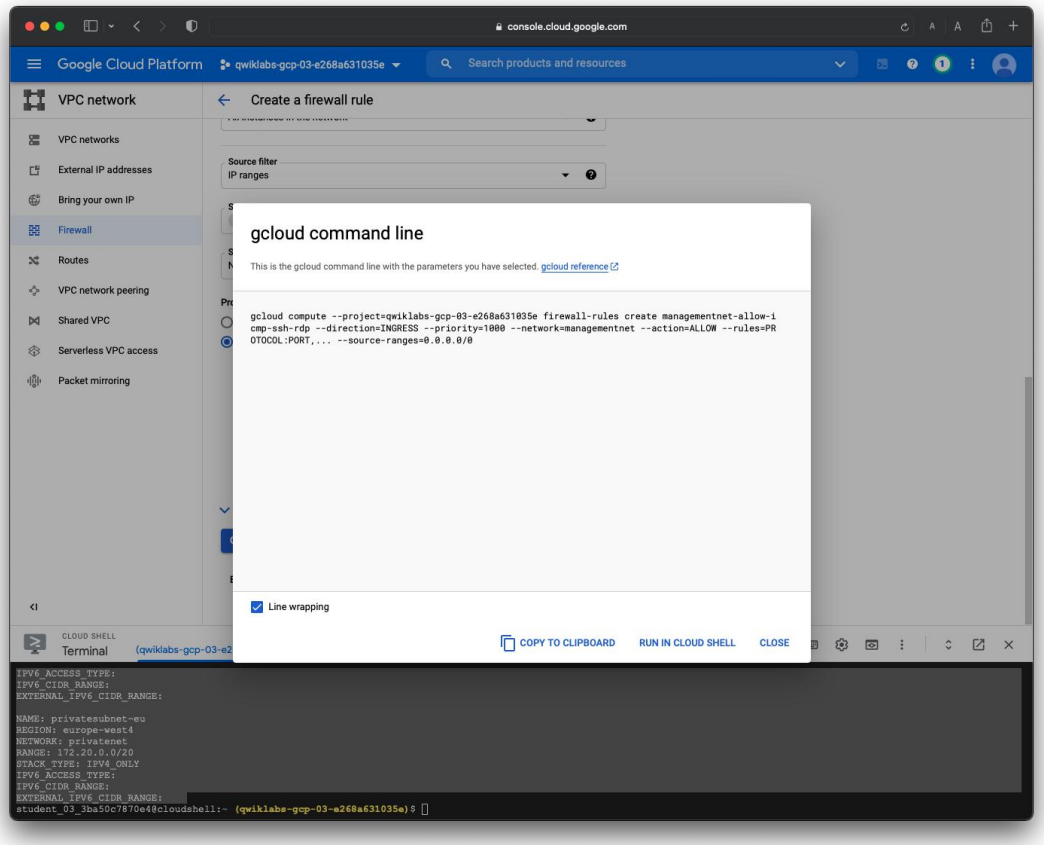


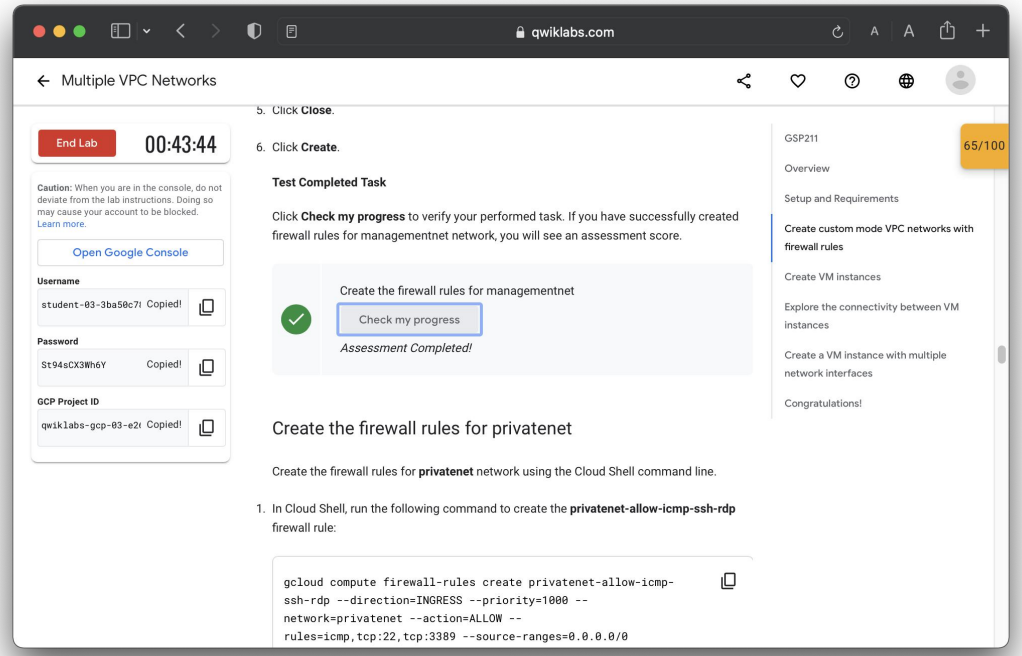


Lab report screen-shot #7:

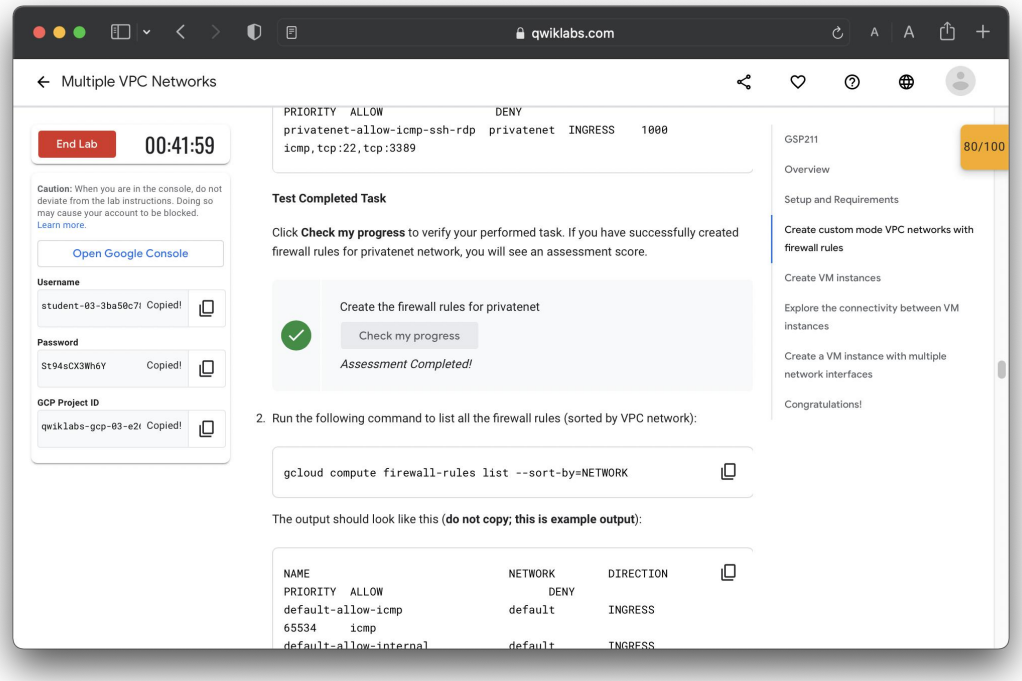
gcloud compute --project=qwiklabs-gcp-03-e268a631035e firewall-rules create managementnet-allow-icmp-ssh-rdp --direction=INGRESS --priority=1000 --network=managementnet --action=ALLOW --rules=PROTOCOL:PORT,... --source-ranges=0.0.0.0/0



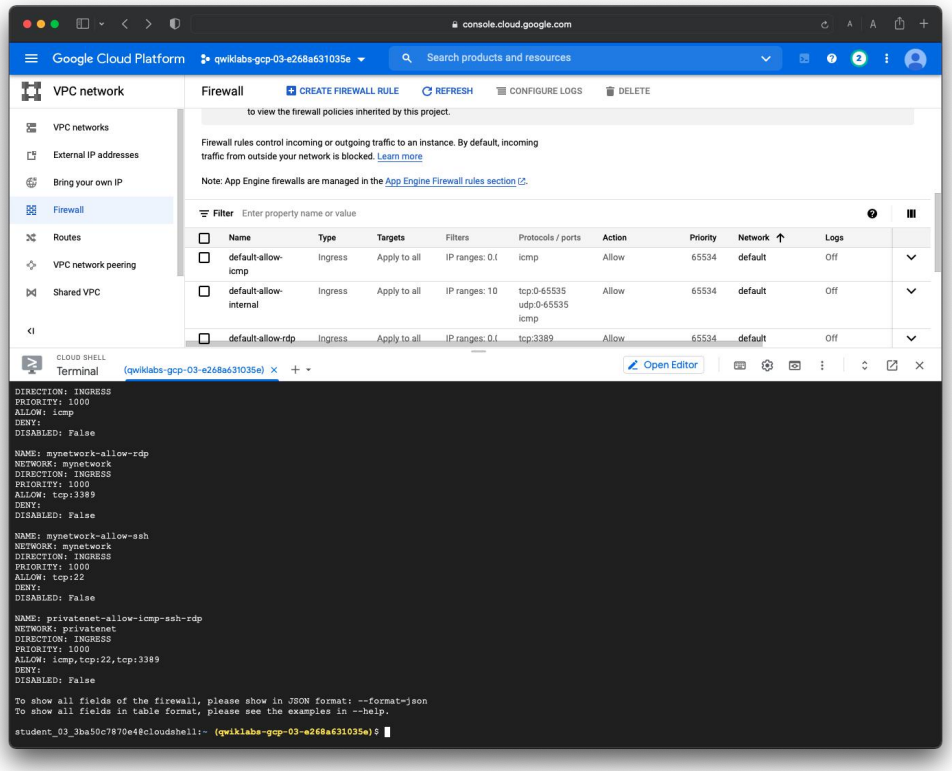
Lab report screen-shot #8:



Lab report screen-shot #9:

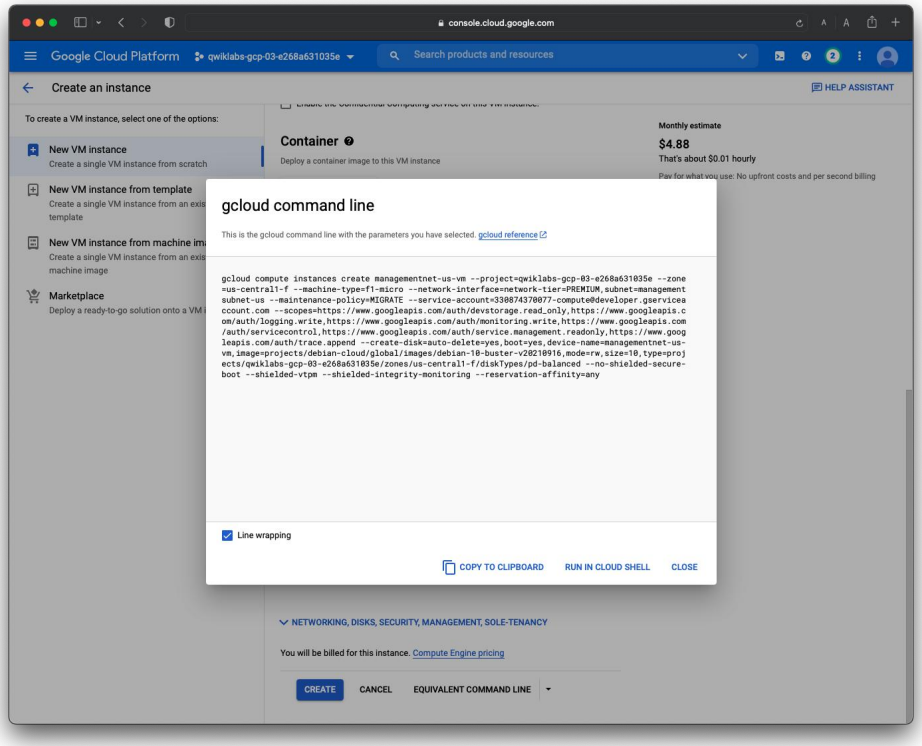


Lab report screen-shot #10:

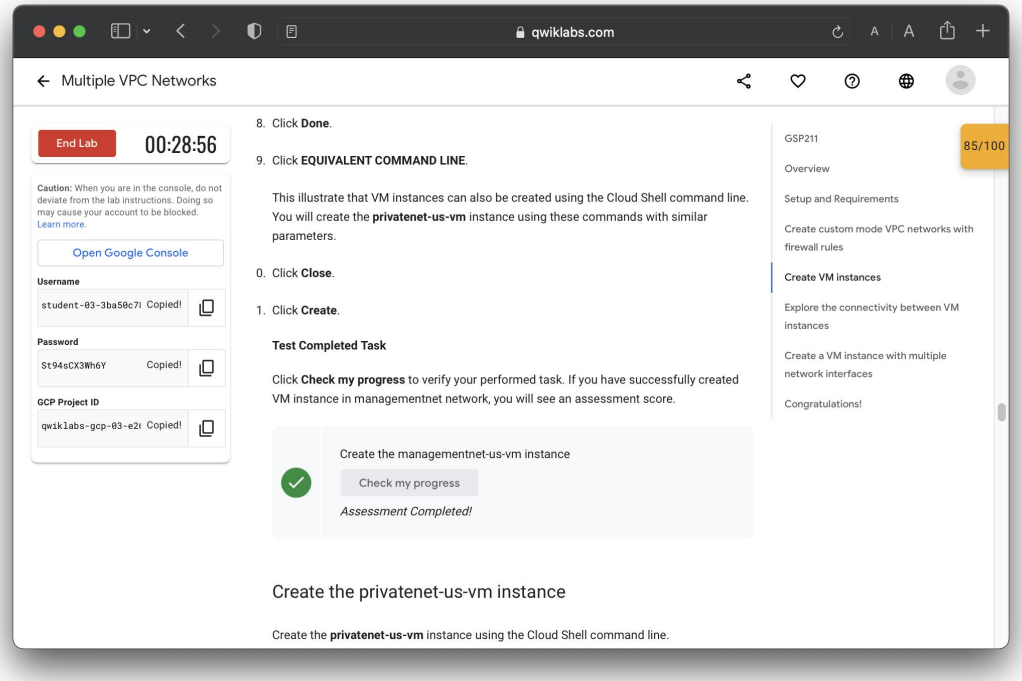


Lab report screen-shot #11:

gcloud compute instances create managementnet-us-vm --project=qwiklabs-gcp-03-e268a631035e --zone=us-central1-f --machine-type=f1-micro --network-interface=network-tier=PREMIUM,subnet=managementsubnet-us --maintenance-policy=MIGRATE --service-account=330874370077-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read_only,https://www.googleapis.com/auth/logging.write,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.com/auth/servicecontrol,https://www.googleapis.com/auth/service.management.readonly,https://www.googleapis.com/auth/trace.append --create-disk=auto-delete=yes,boot=yes,device-name=managementnet-us-vm,image=projects/debian-cloud/global/images/debian-10-buster-v20210916,mode=rw,size=10,type=projects/qwiklabs-gcp-03-e268a631035e/zones/us-central1-f/diskTypes/pd-balanced --no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --reservation-affinity=any



Lab report screen-shot #12:



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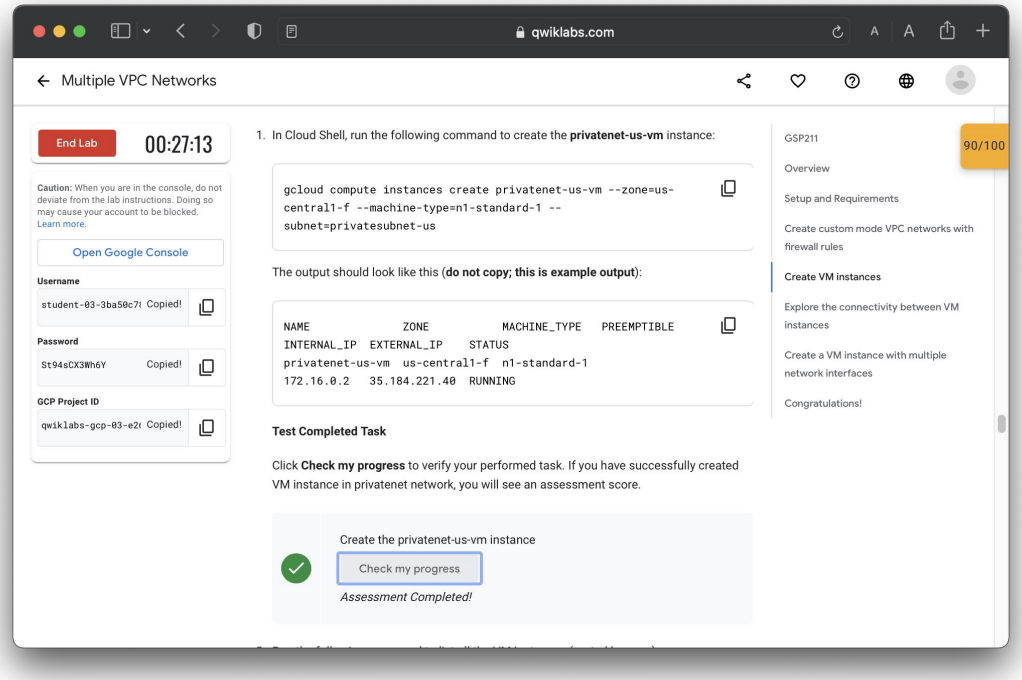
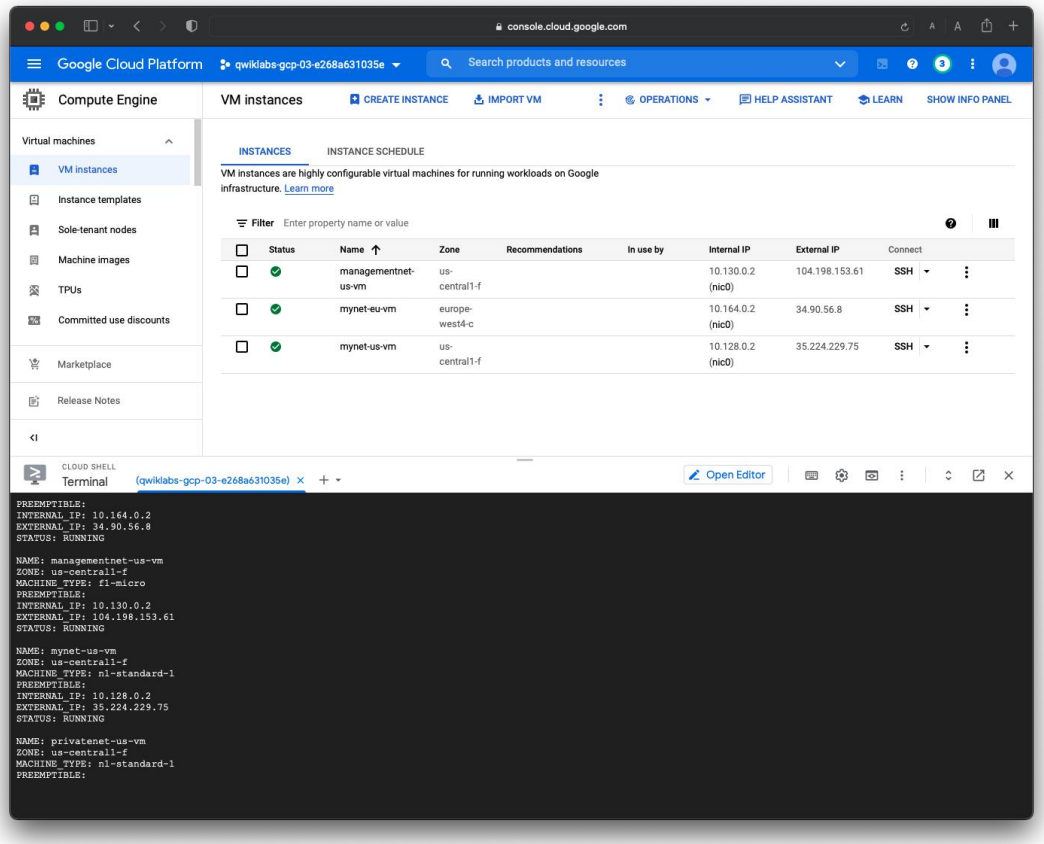


Lab report screen-shot #14:



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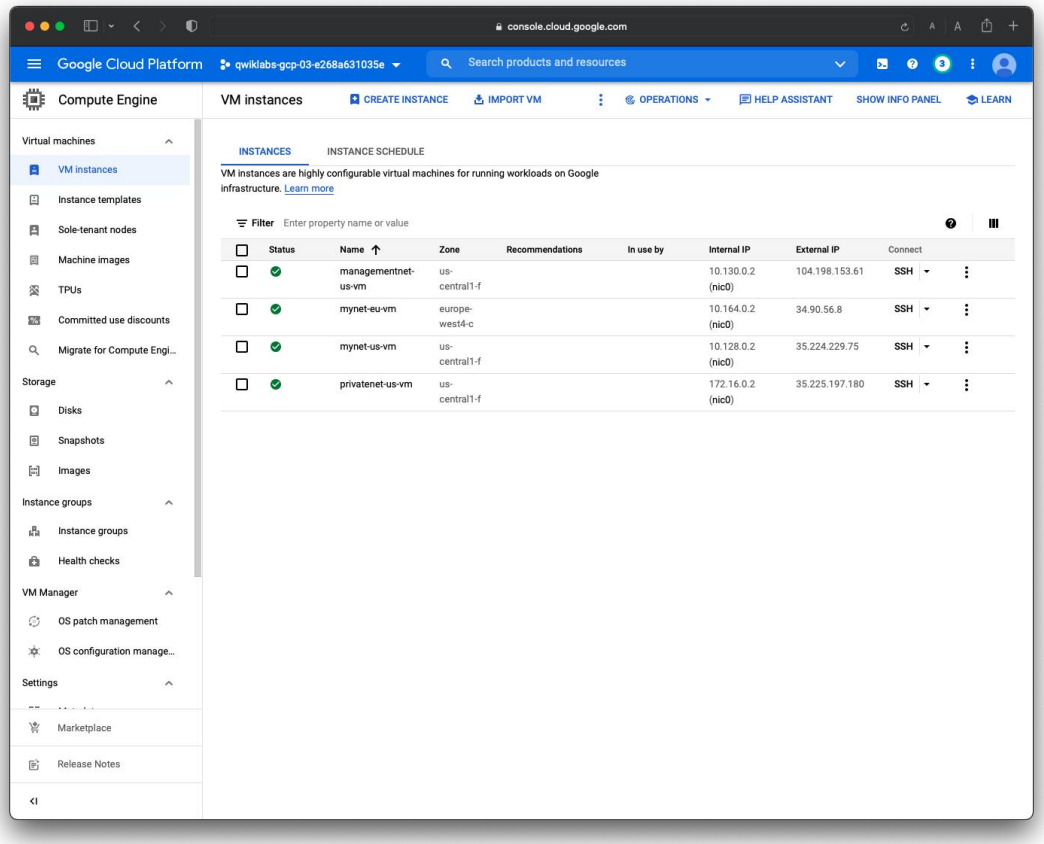

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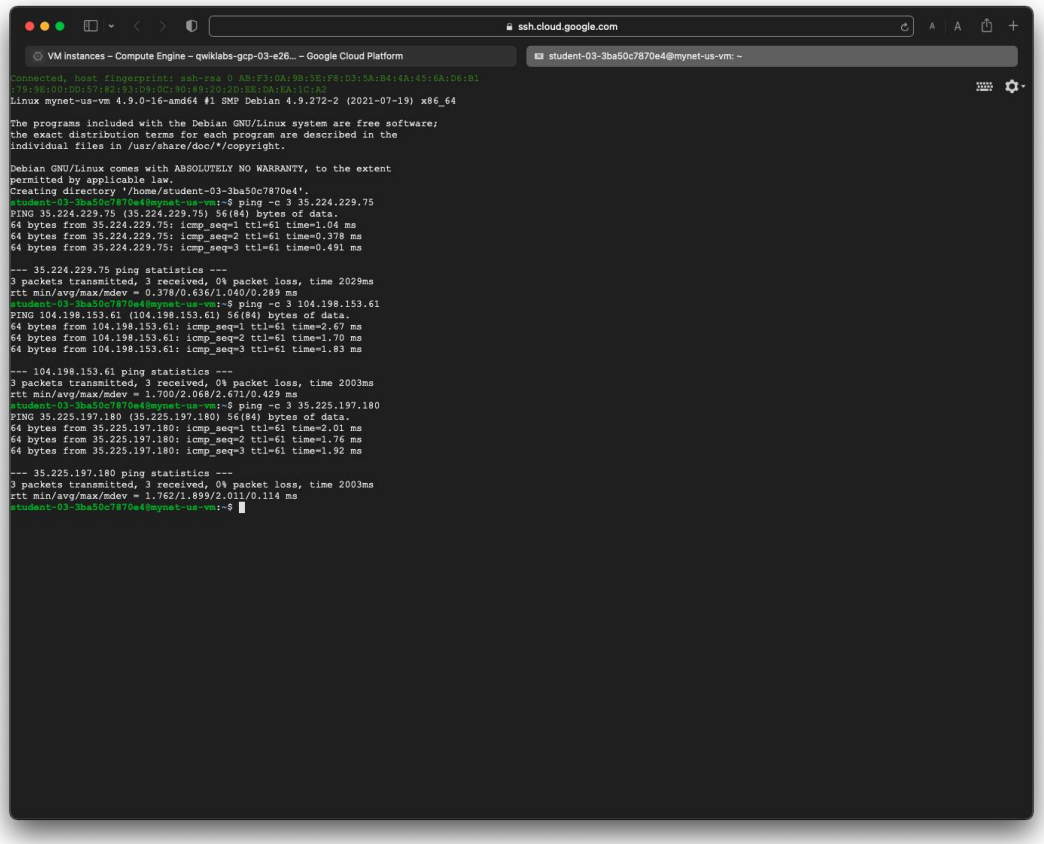

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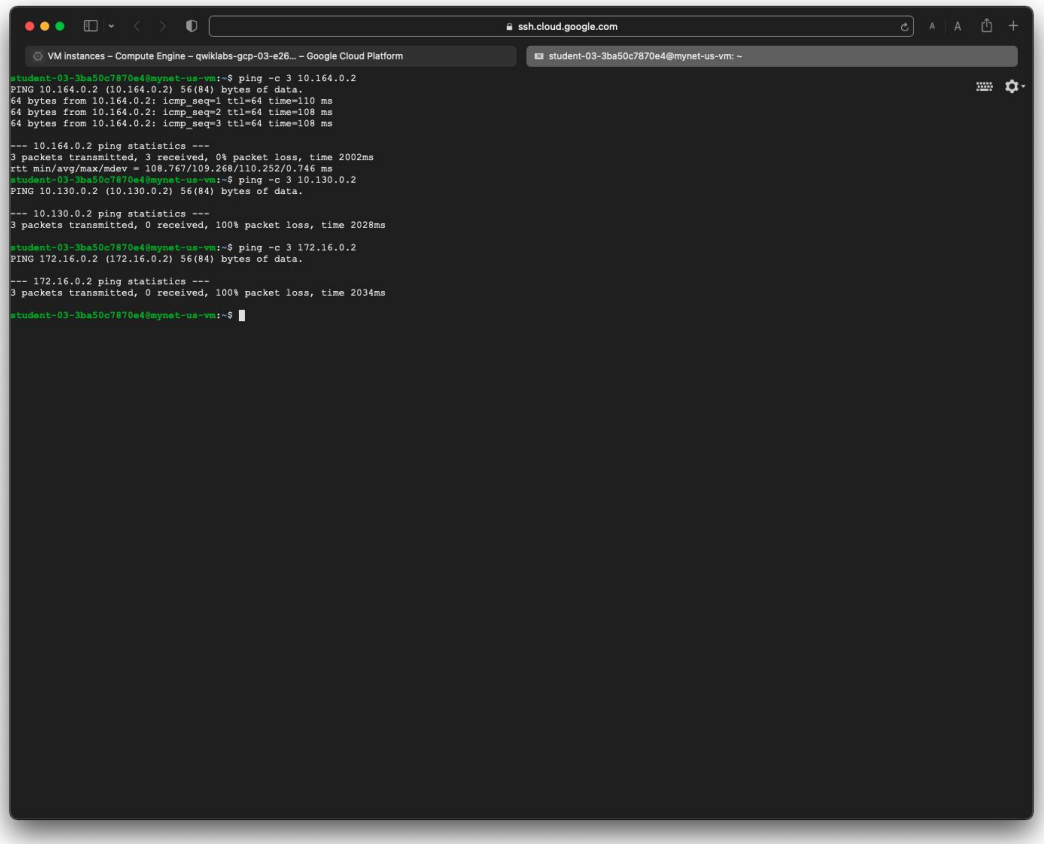

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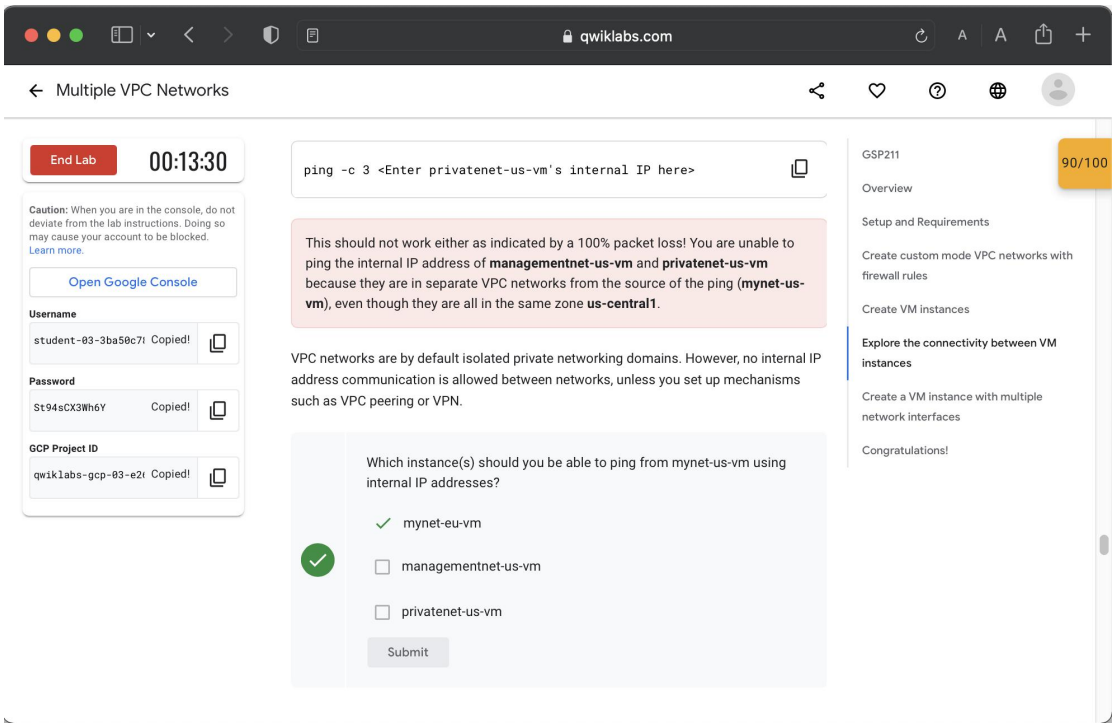
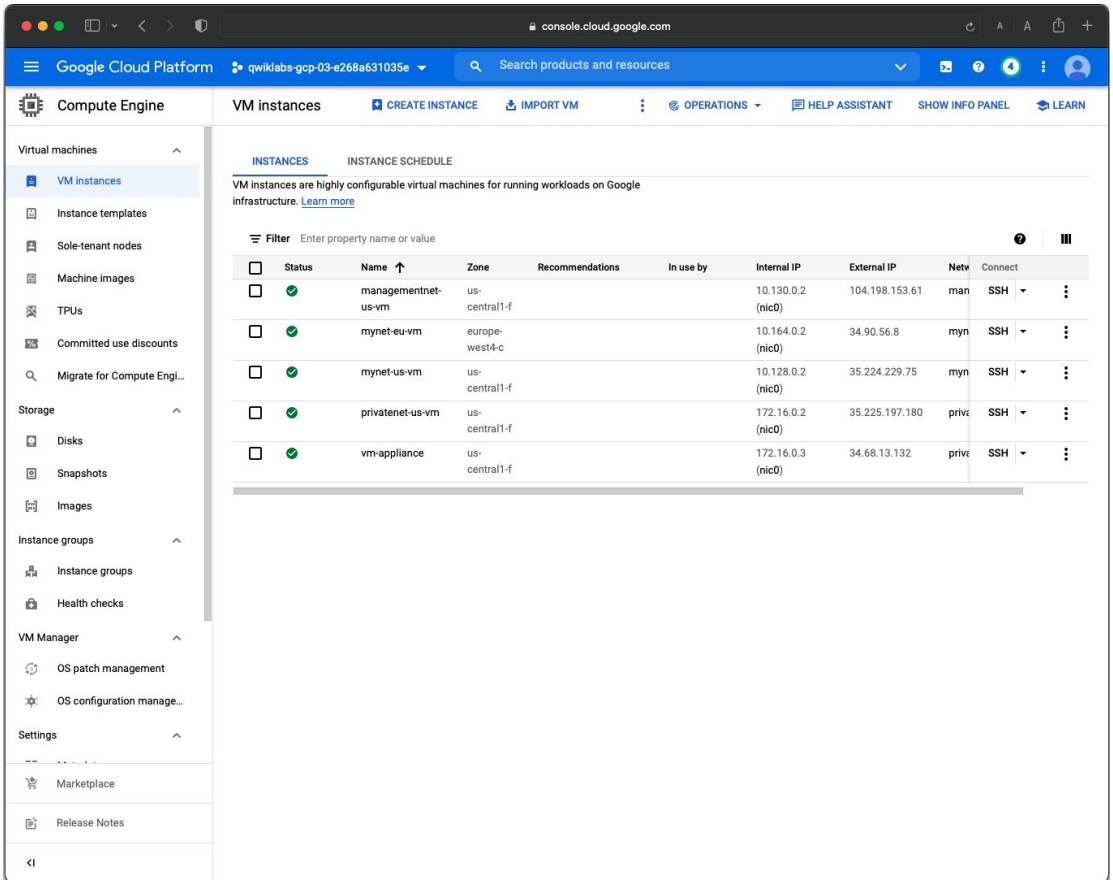
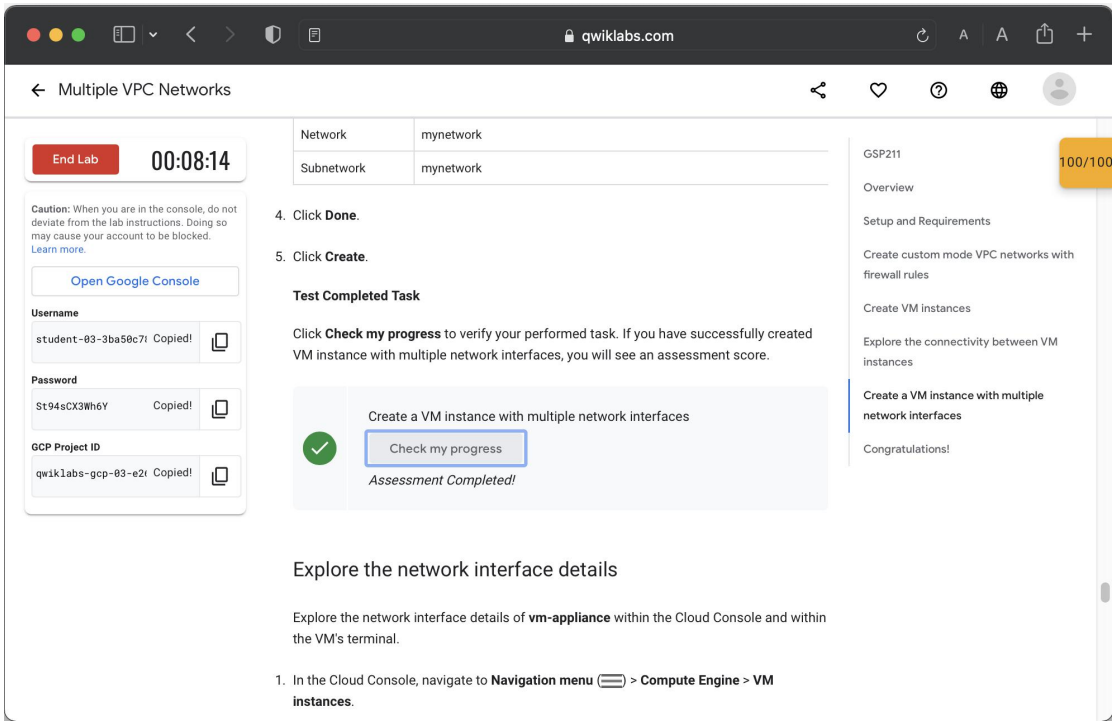


Lab report screen-shot #19:



Lab report screen-shot #20:



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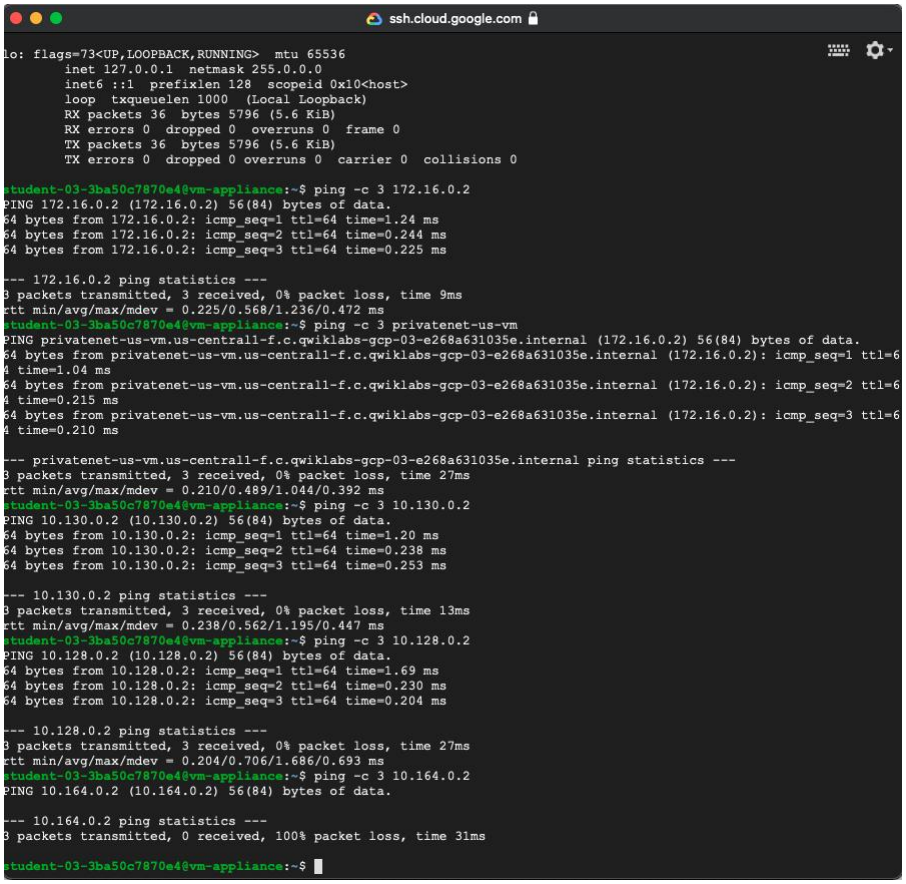

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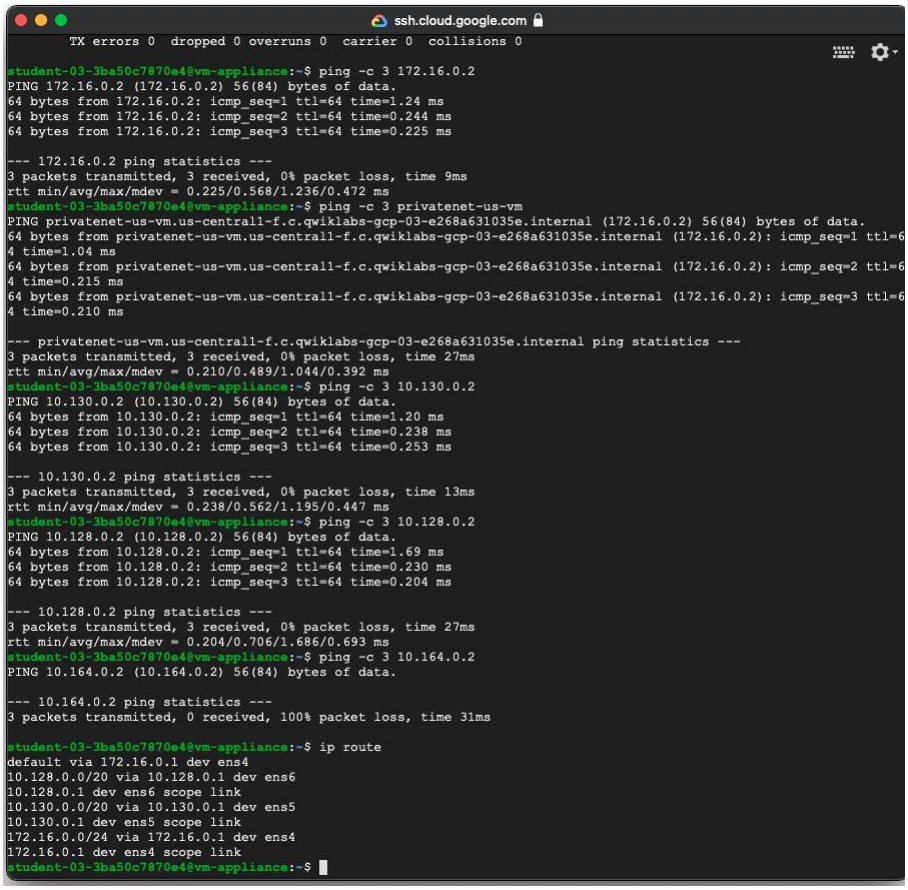

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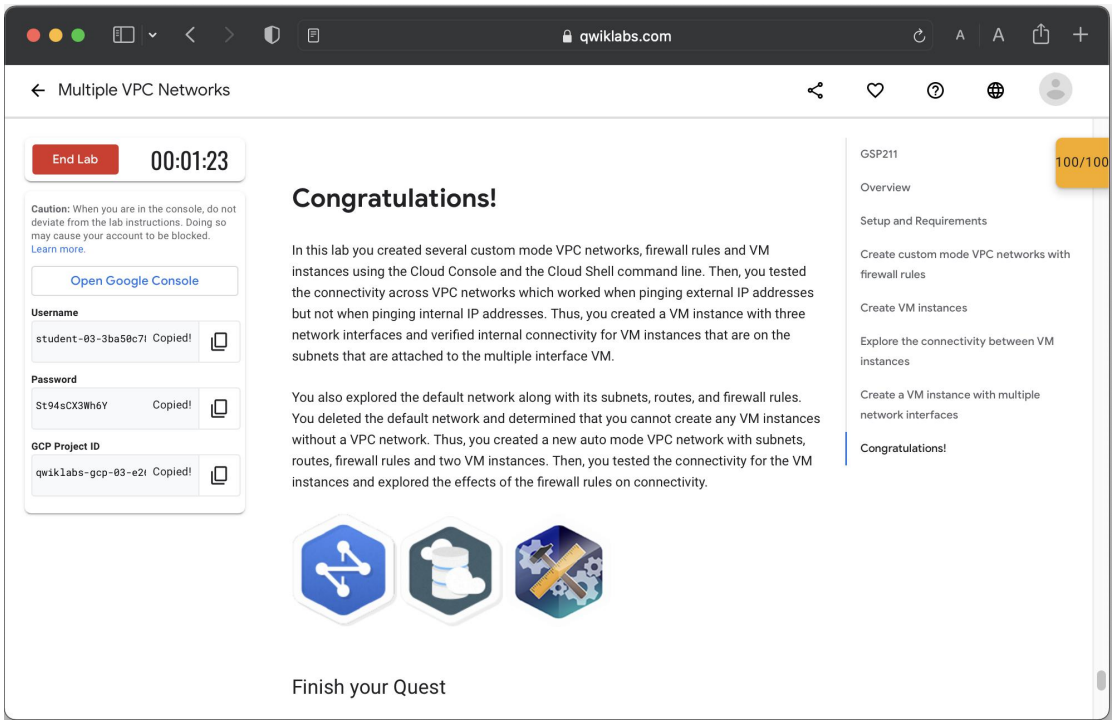
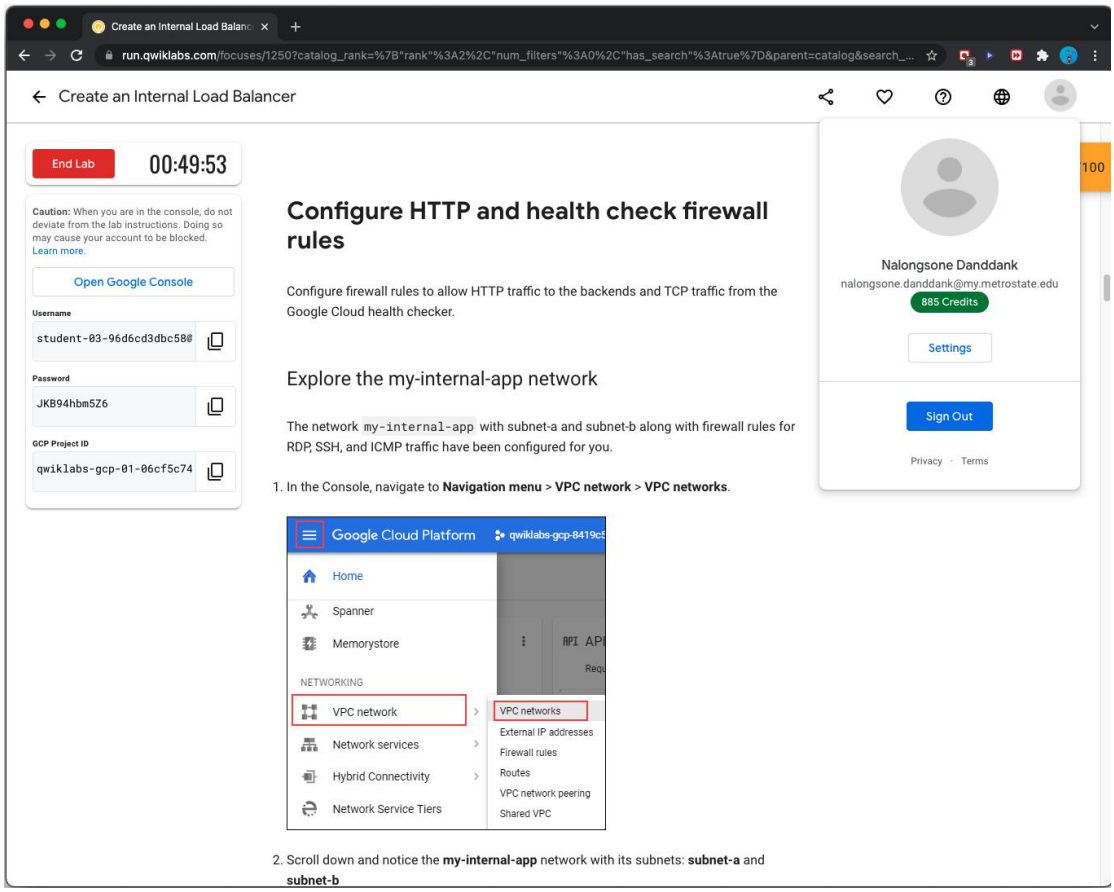


Exercise 2: Load Balancing.

Lab report screen-shot #24:



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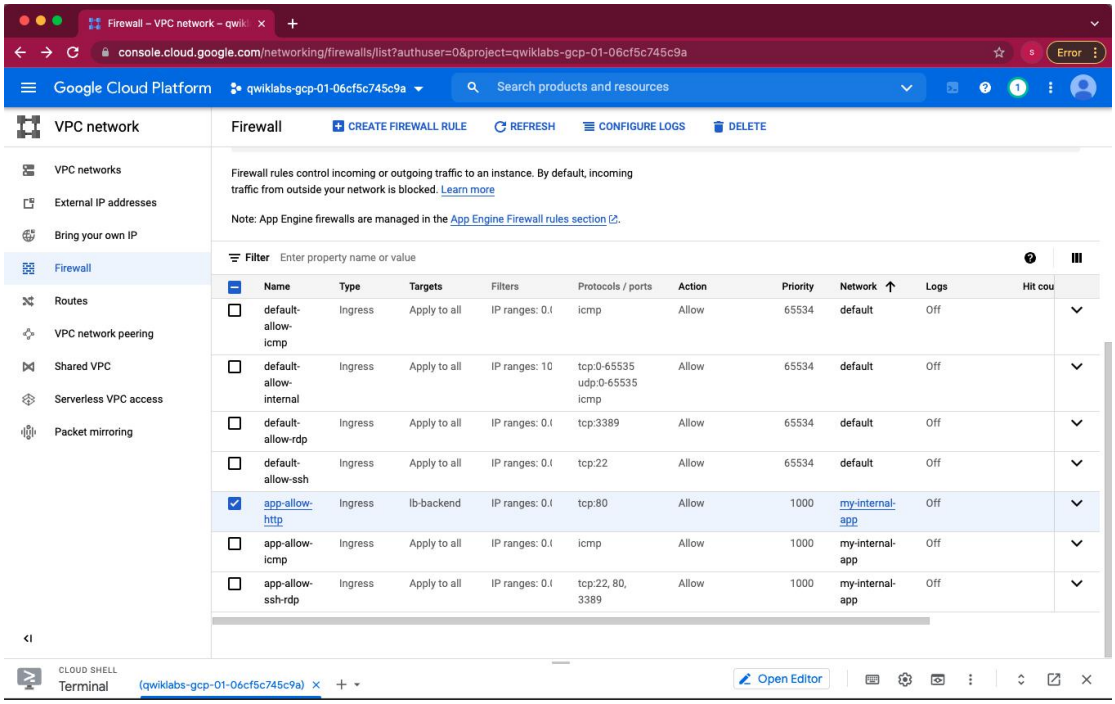

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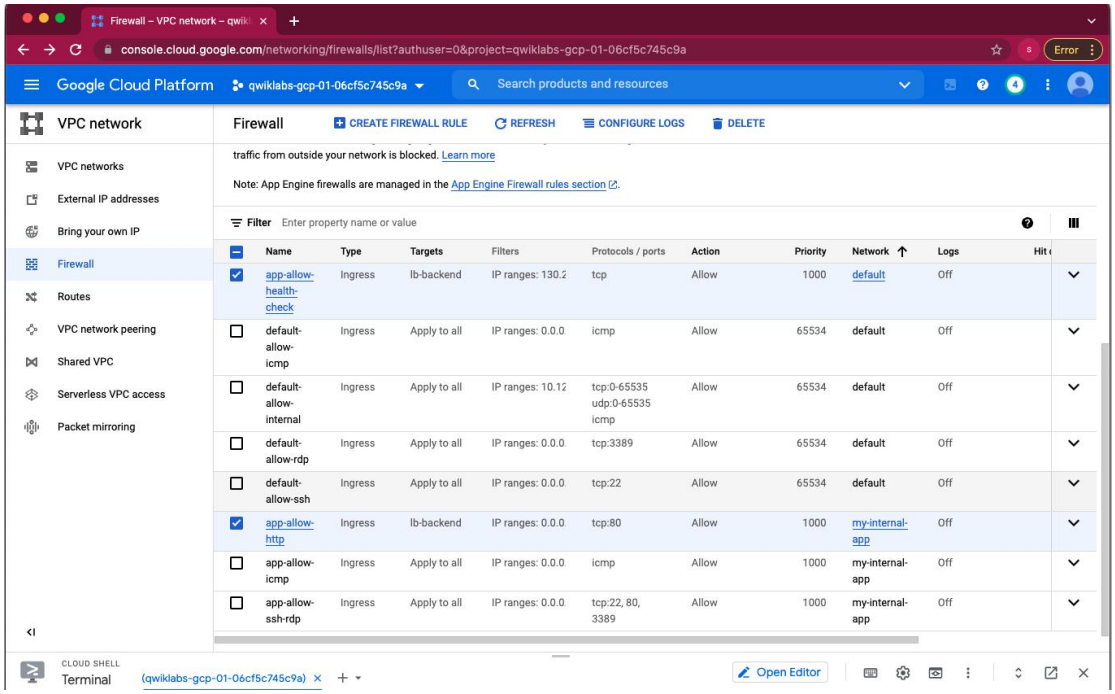

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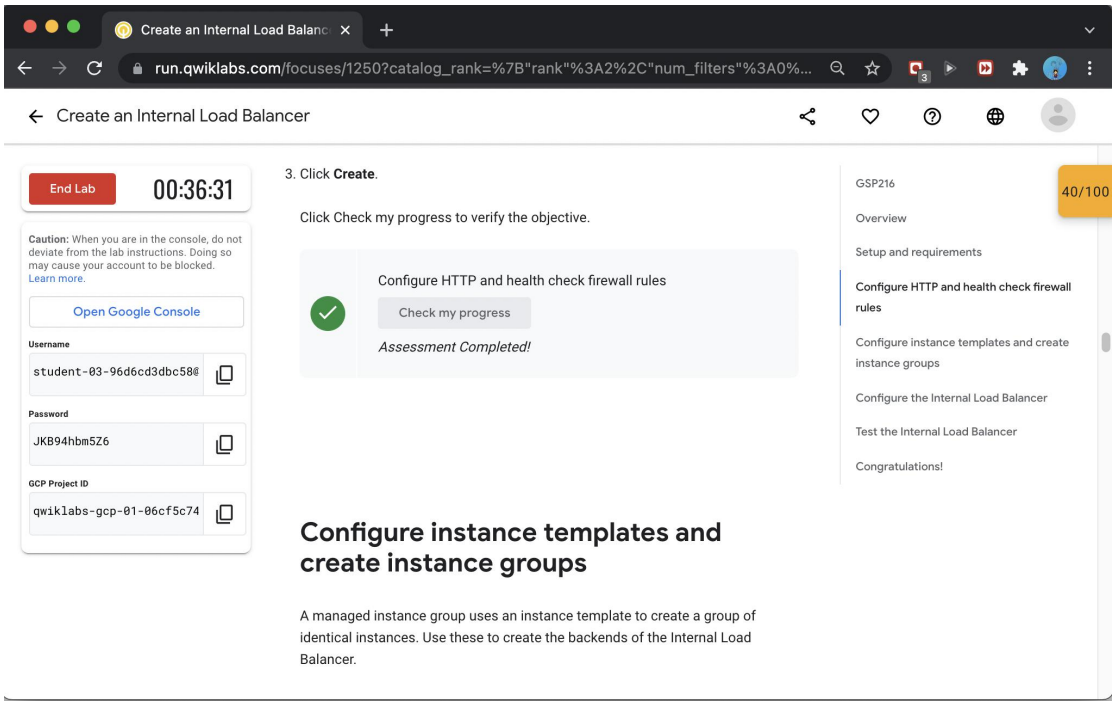

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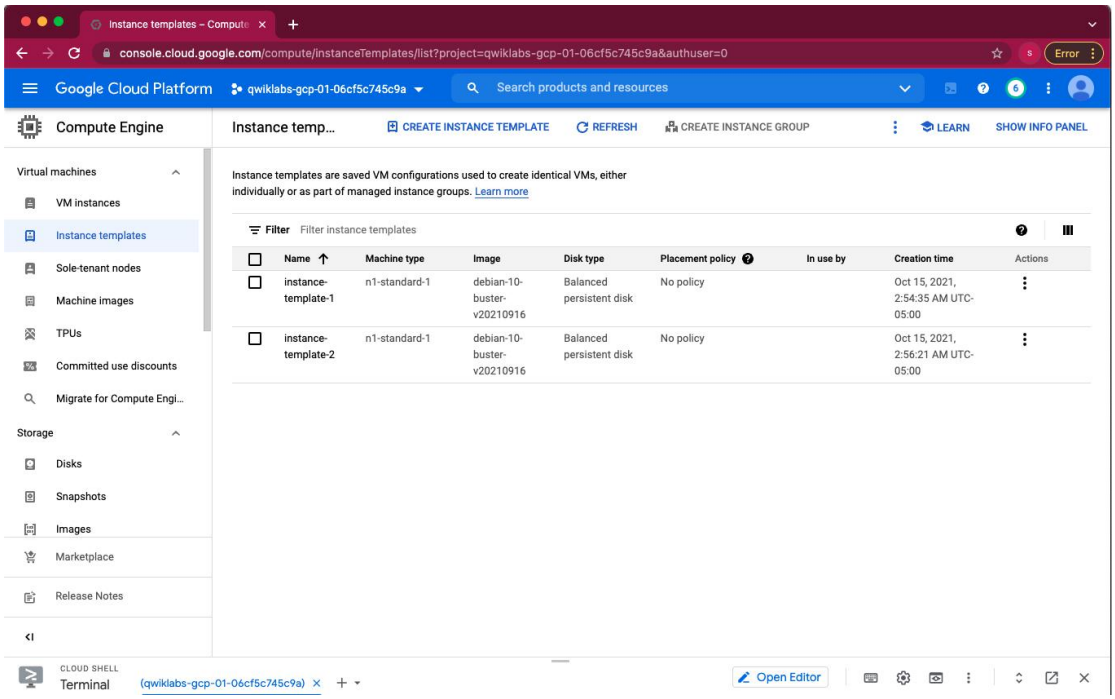

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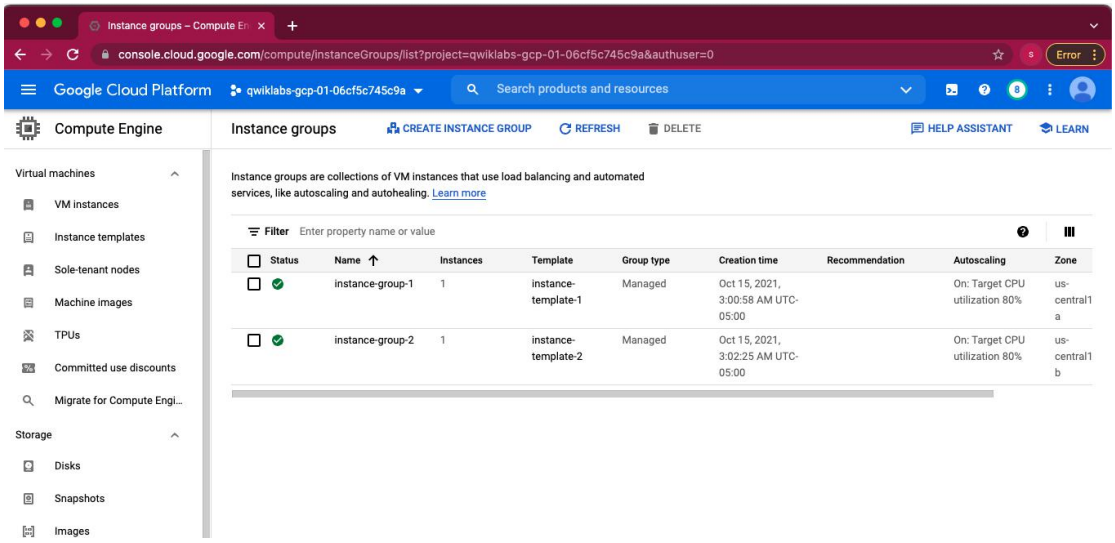

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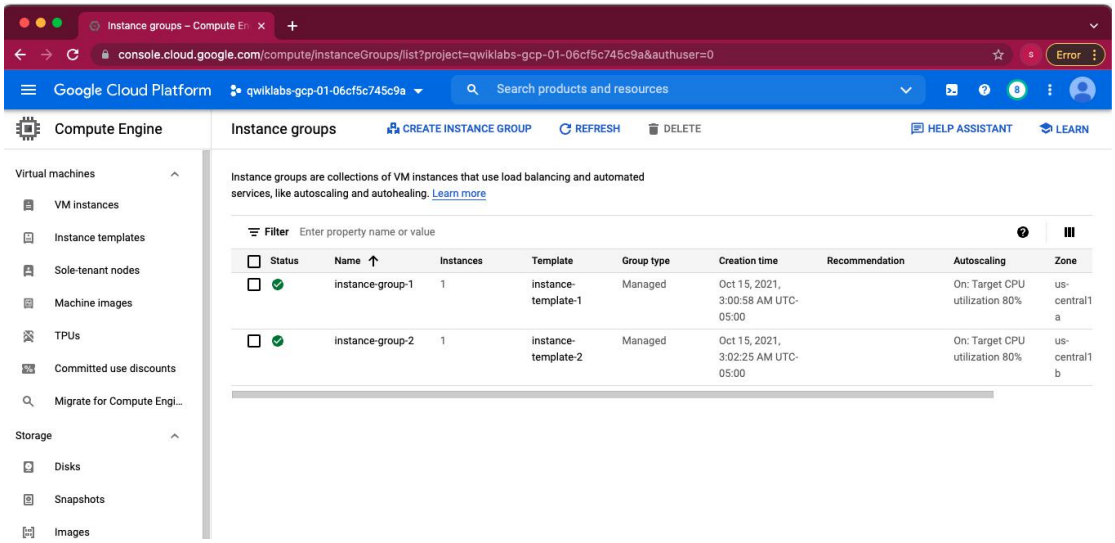
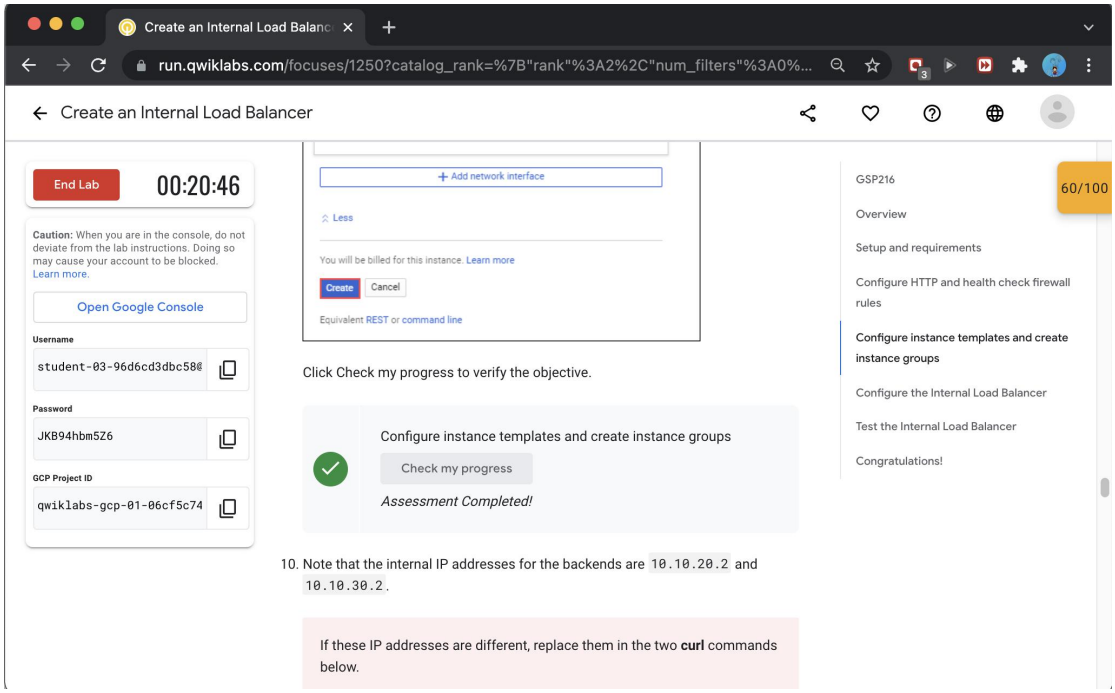


Lab report screen-shot #31:



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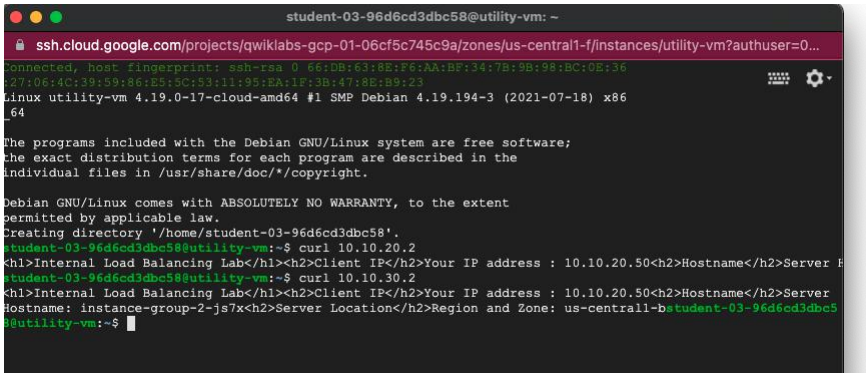

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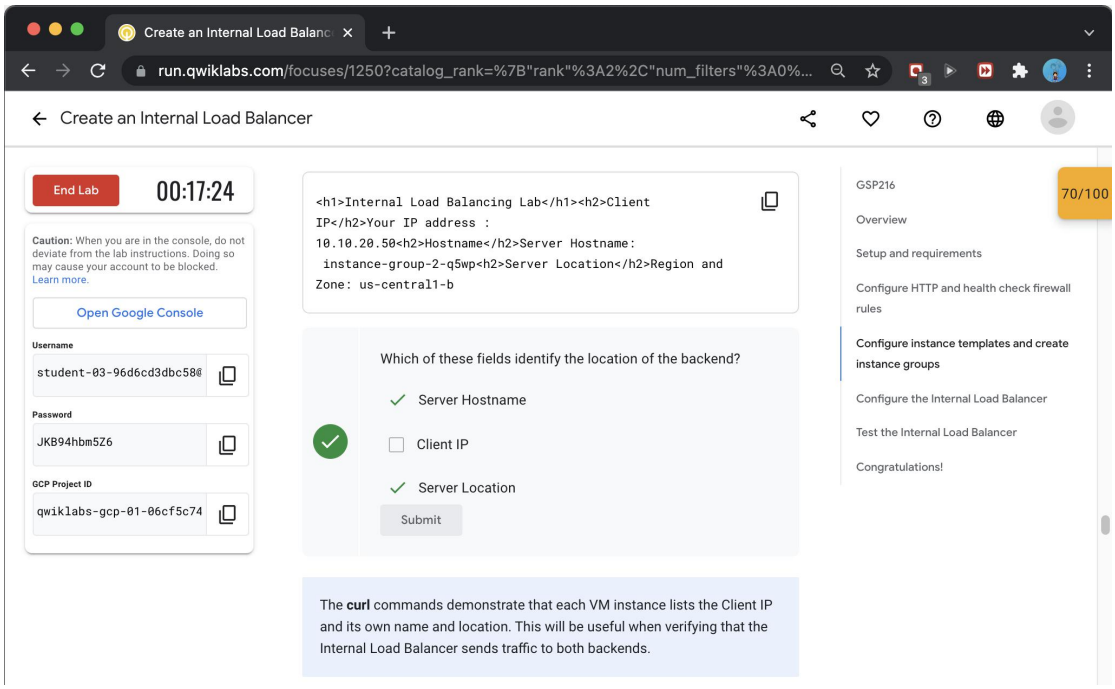

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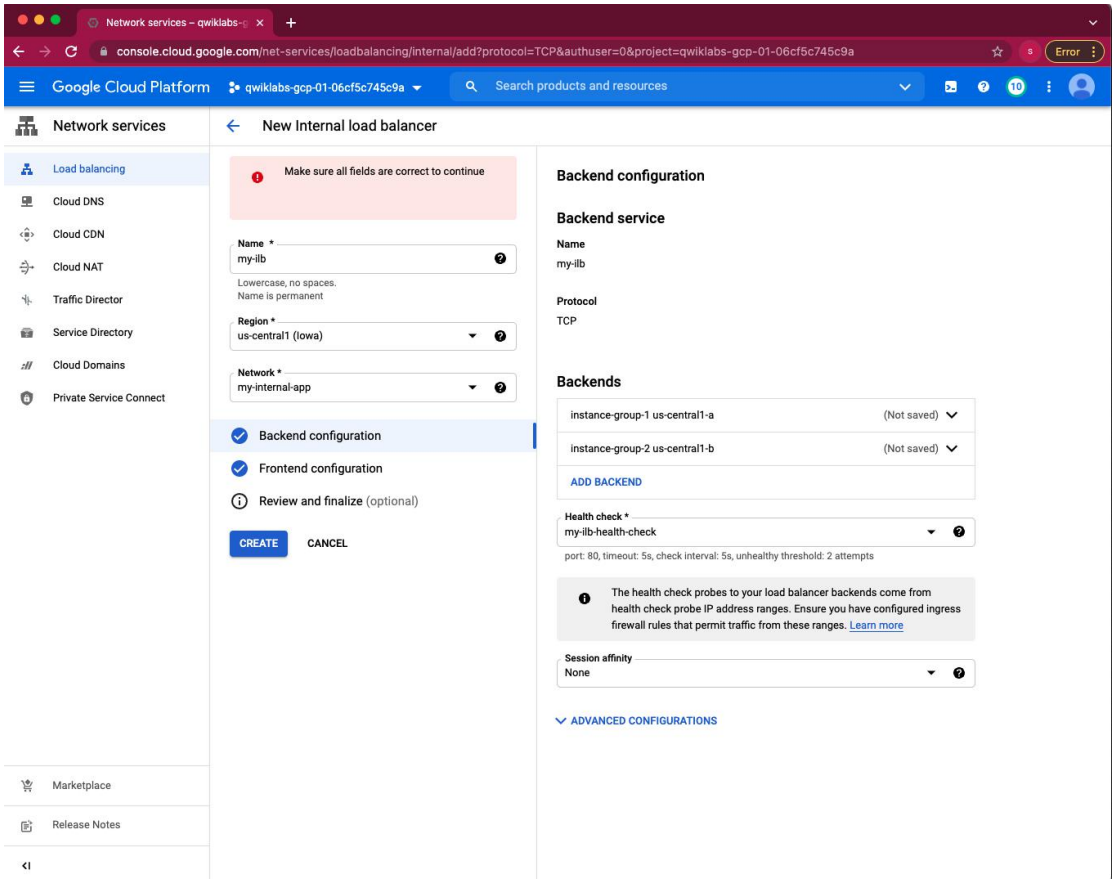

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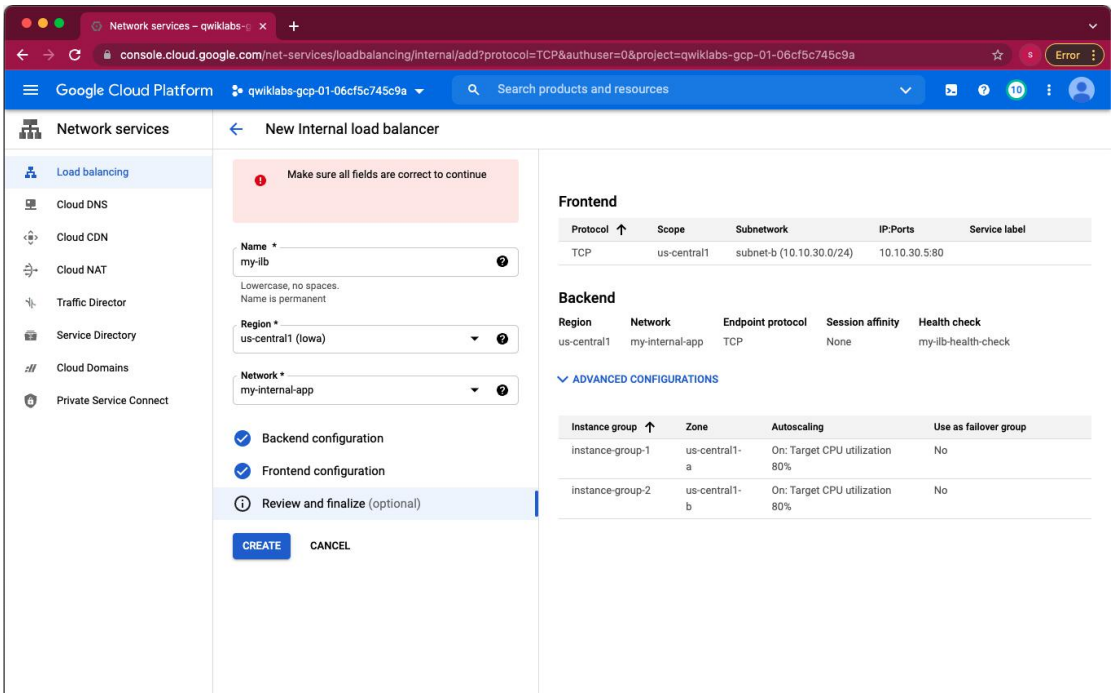

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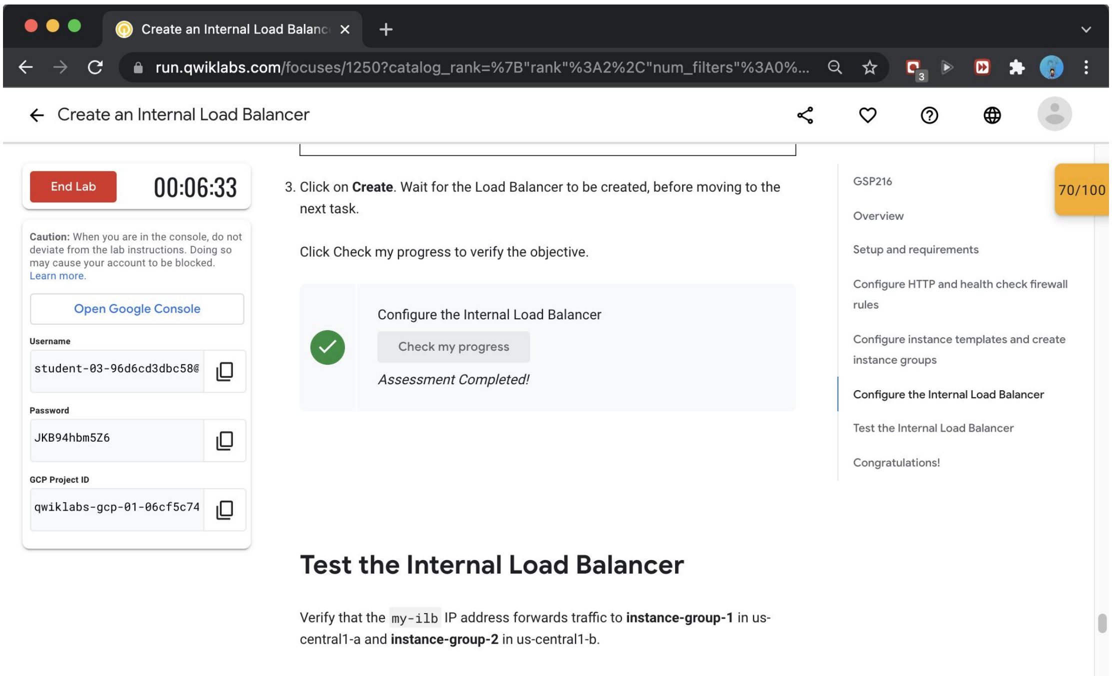

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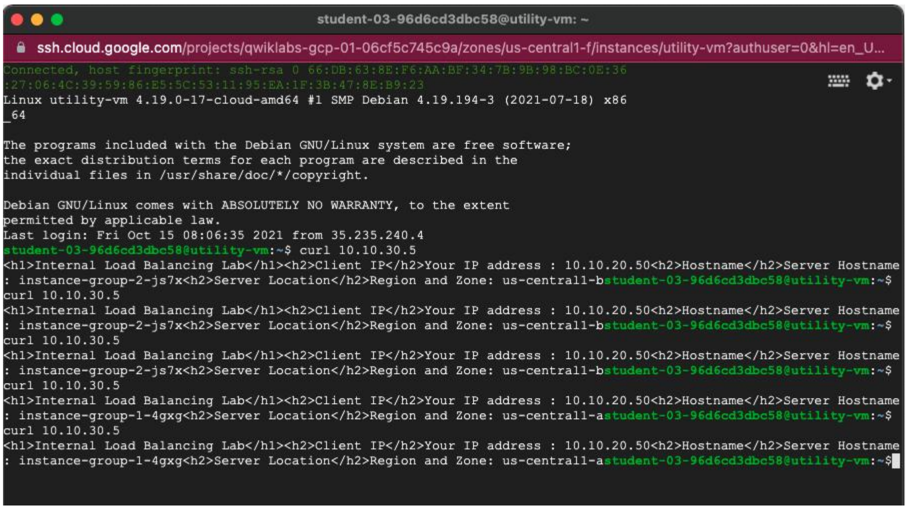

Lab report screen-shot #38: