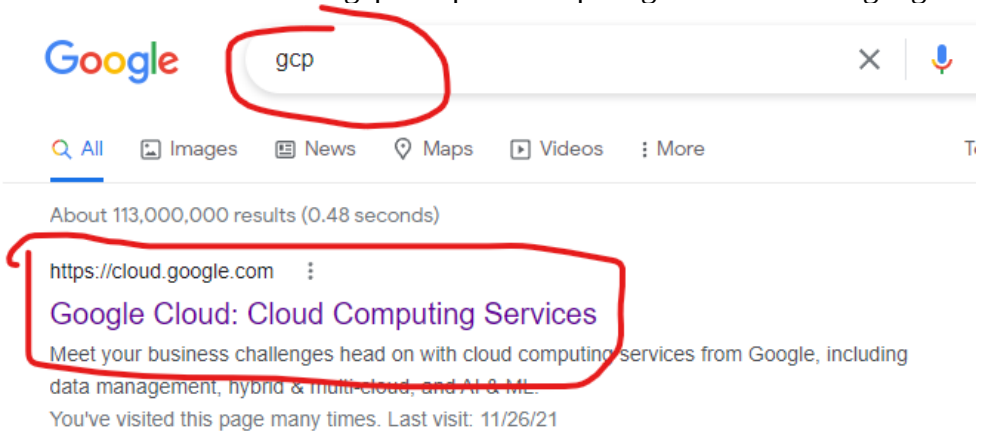
Nama: **Widya WP** **NIM:** 065xxxx **Kelompok:** XXX		**MODUL 11** **Nama Dosen :** **Gatot Budi Santoso** **Adrian Sjamsul Qomar**
Hari/Tanggal : 6 Desember 2021	**Praktikum Jaringan Komputer**	**Nama Asisten Labratorium :** **1. Annur Hangga Prihadi** **2. Harfansa Nasrullah** **3. Faiz Kumara** **4. Uray Asyifa**

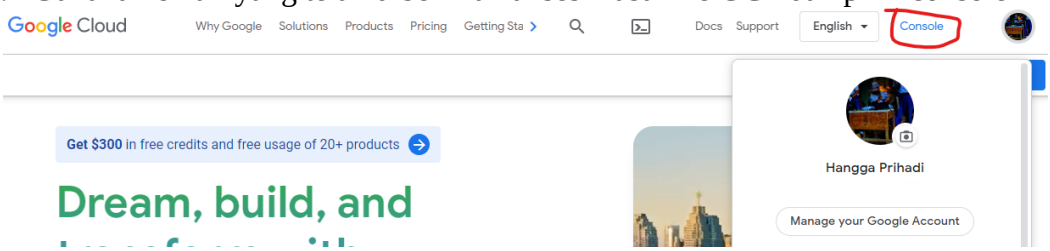
Firewall Rules GCP dan Testing Deploy

1. **Alat dan Bahan**
   - **1.1. Hardware: Laptop atau PC**
   - **1.2. Services: Google Cloud Platform**

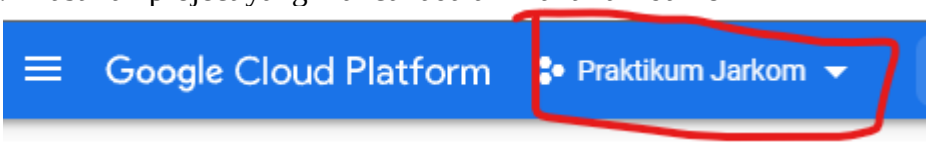
2. **Elemen Kompetensi**
   - **2.1. Mengatur Firewall**
     - 2.1.1. Buka browser lalu ketik gcp dan pilih link paling atas atau cloud.google.com



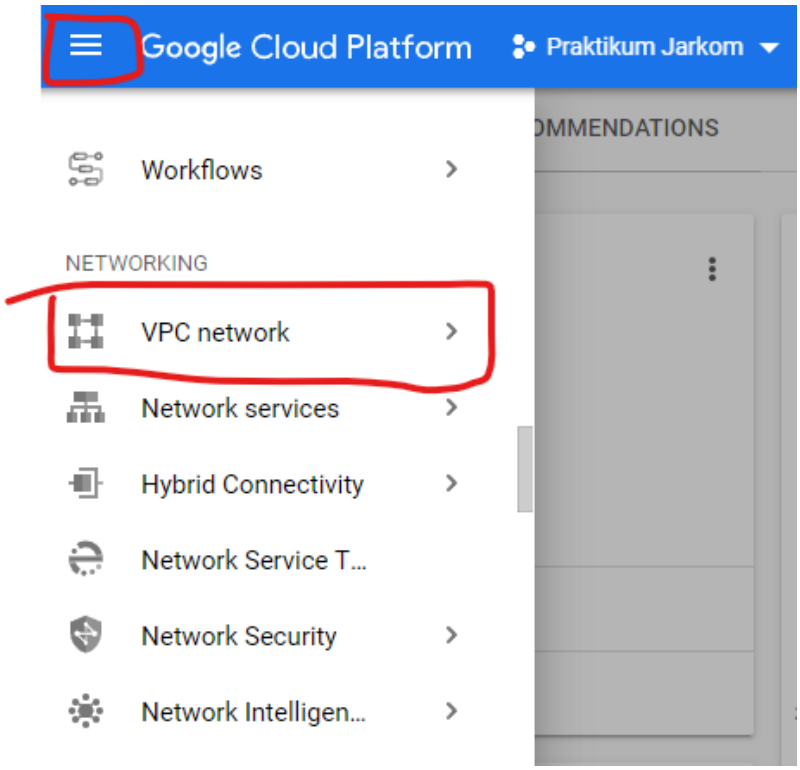
     - 2.1.2. Gunakan email yang telah diberi hak akses masuk ke GCP dan pilih console



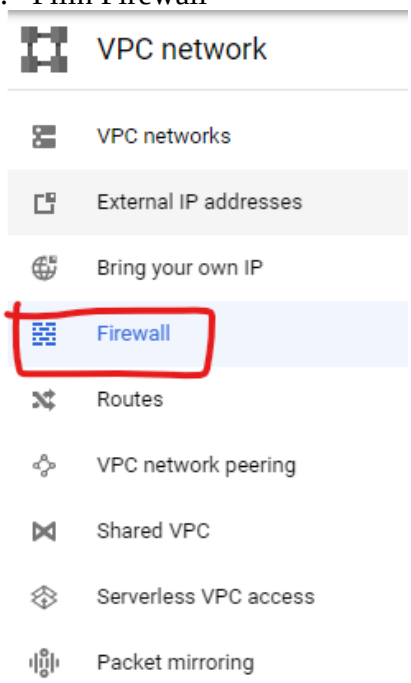
2.1.3. Pastikan project yang muncul adalah Praktikum Jarkom



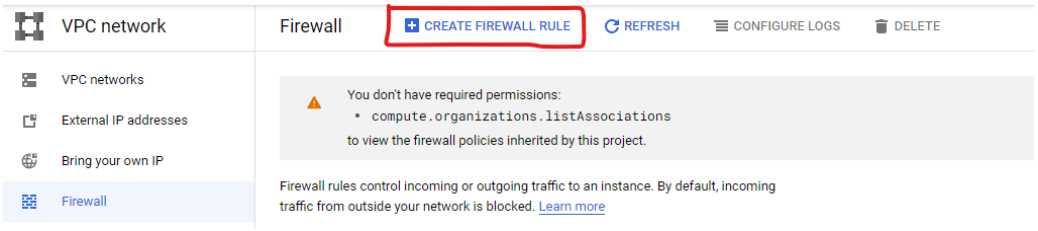
2.1.4. Pilih VPC network



2.1.5. Pilih Firewall

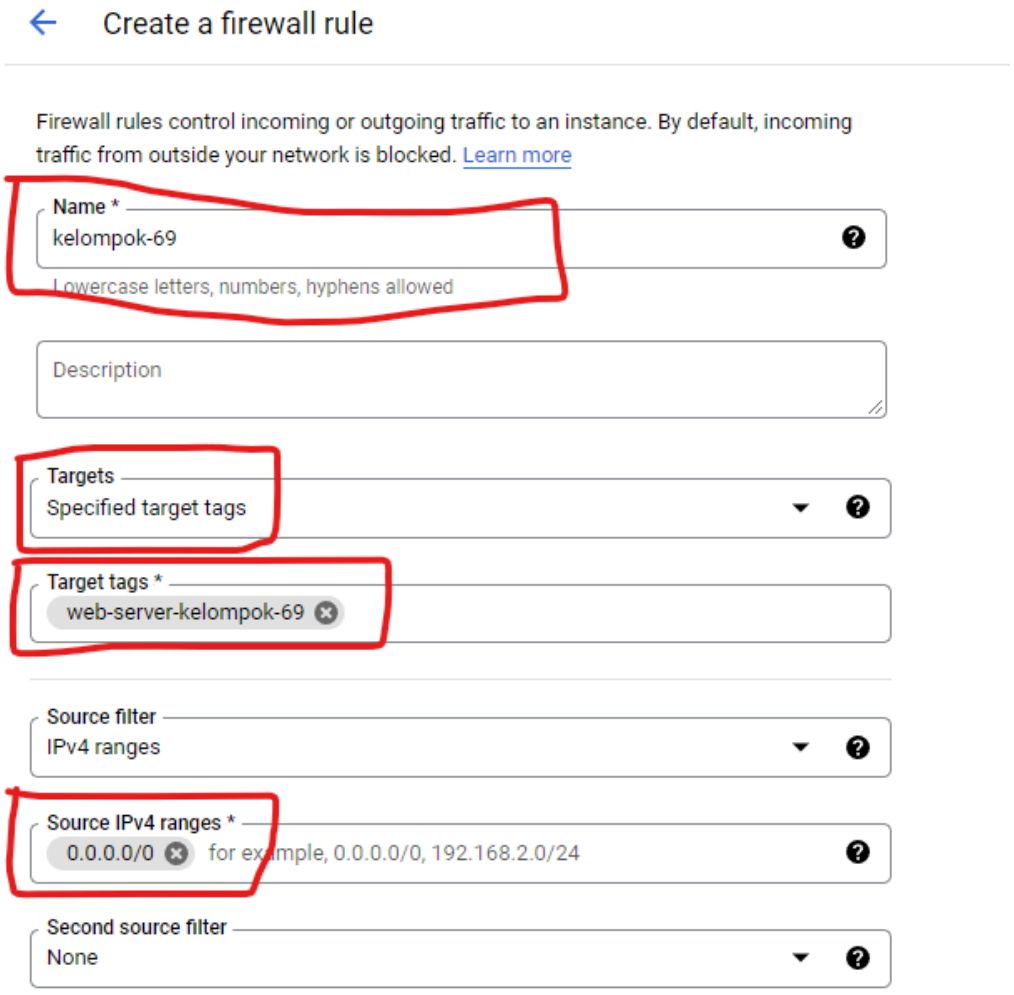


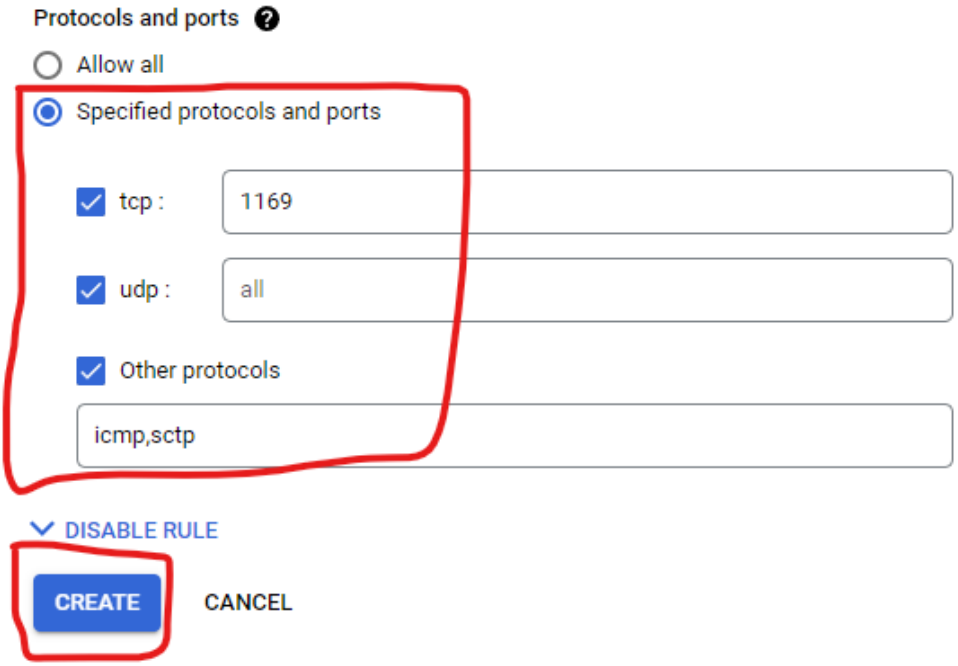
2.1.6. Pilih CREATE FIREWALL RULE



2.1.7. Atur Firewall dengan ketentuan berikut

Name	kelompok-xx (isi xx dengan nomor kelompok)
Targets	Specified target tags
Target tags	web-server-kelompok-xx (isi xx dengan nomor kelompok)
Source IPv4 ranges	0.0.0.0/0
Protocols and ports	Specified protocols and ports
Specified protocols and ports	1. Centang tcp lalu isi dengan 11xx (xx isi dengan nomor kelompok) 2. Centang udp 3. Centang Other protocols isi dengan icmp,sctp lalu klik create



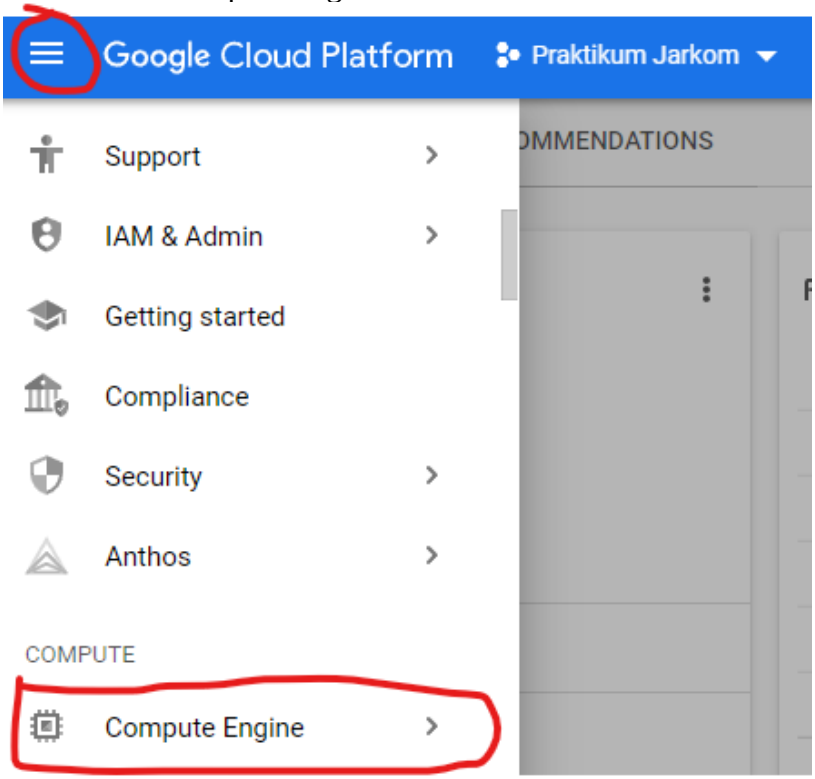


2.1.8. Pastikan Firewall kalian sukses terbuat seperti gambar berikut

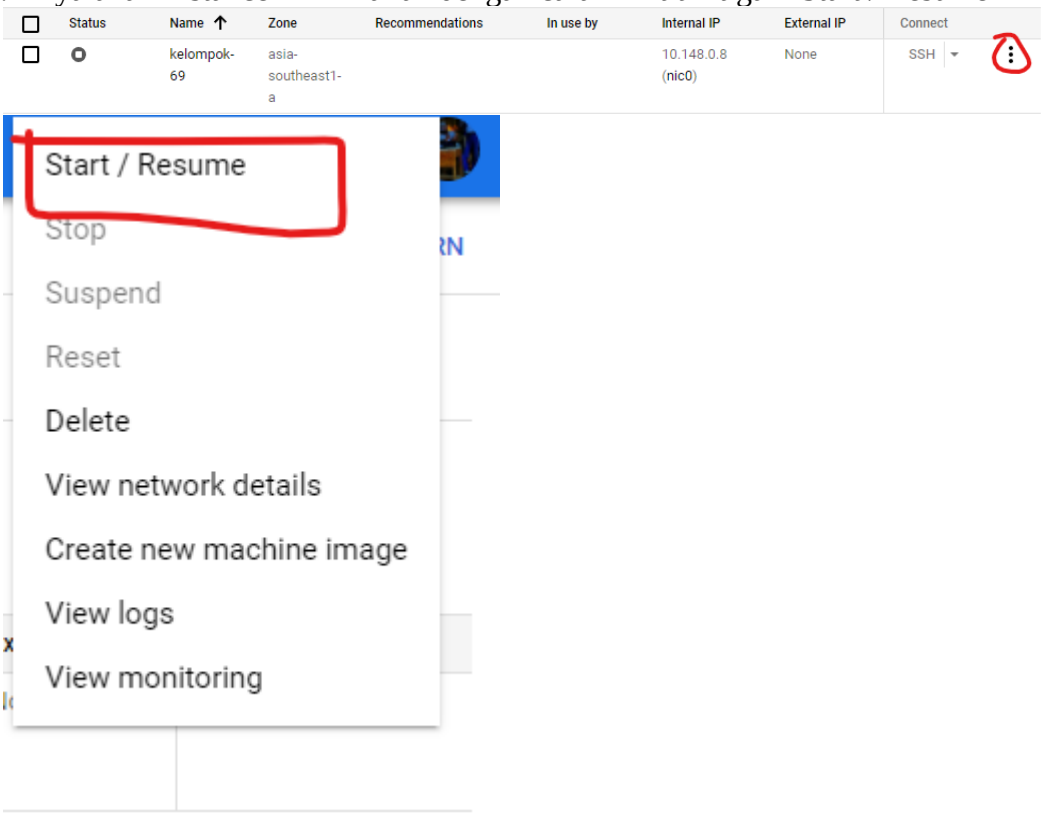
☐	default-allow-http	Ingress	http-server	IP ranges: 0.(	tcp:80	Allow	1000	default	Off
☐	kelompok-69	Ingress	web-server-(	IP ranges: 0.(	tcp:1169 udp icmp;sctp	Allow	1000	default	Off
☐	default-allow-icmp	Ingress	Apply to all	IP ranges: 0.(	icmp	Allow	65534	default	Off
☐	default-allow-internal	Ingress	Apply to all	IP ranges: 10	tcp:0-65535 udp:0-65535 icmp	Allow	65534	default	Off
☐	default-allow-rdp	Ingress	Apply to all	IP ranges: 0.(	tcp:3389	Allow	65534	default	Off
☐	default-allow-ssh	Ingress	Apply to all	IP ranges: 0.(	tcp:22	Allow	65534	default	Off

2.2. Setting GCP Instance

2.2.1. Masuk ke Compute Engine

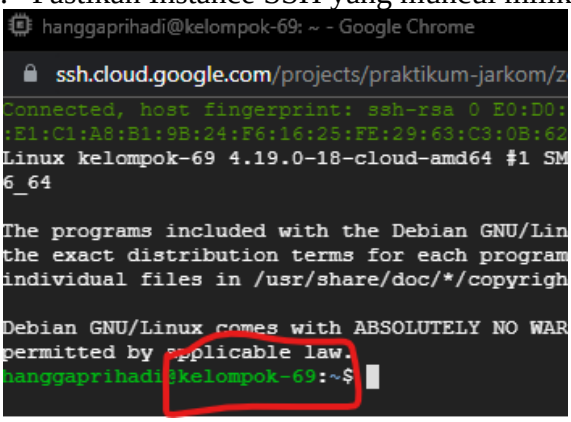


2.2.2. Nyalakan Instance milik kalian dengan cara klik titik tiga > Start / Resume

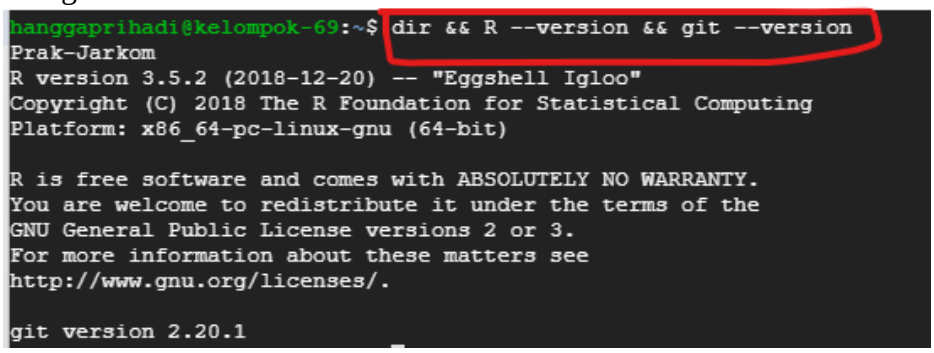


2.2.3. Pastikan Instance sudah mennyala lalu klik SSH

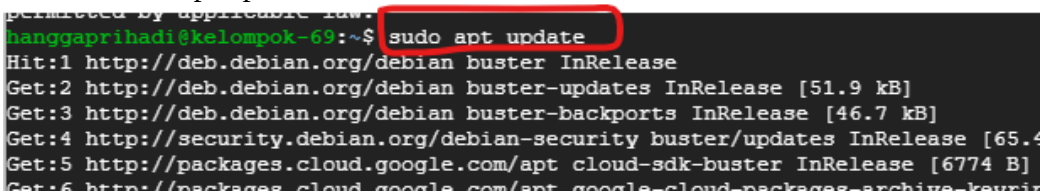
2.2.4. Pastikan Instance SSH yang muncul milik kalian



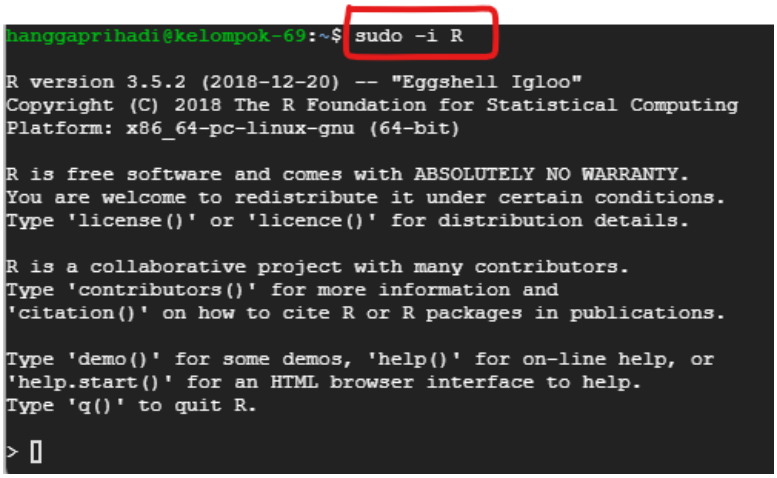
2.2.5. Pastikan file dalam Instance tidak berubah dengan cara ketik dir && R --version && git --version



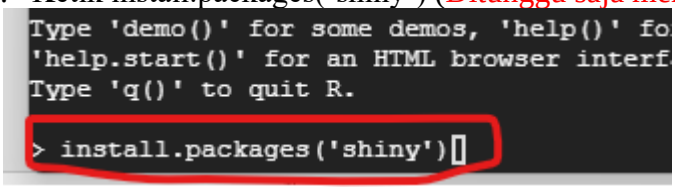
2.2.6. Ketik sudo apt update



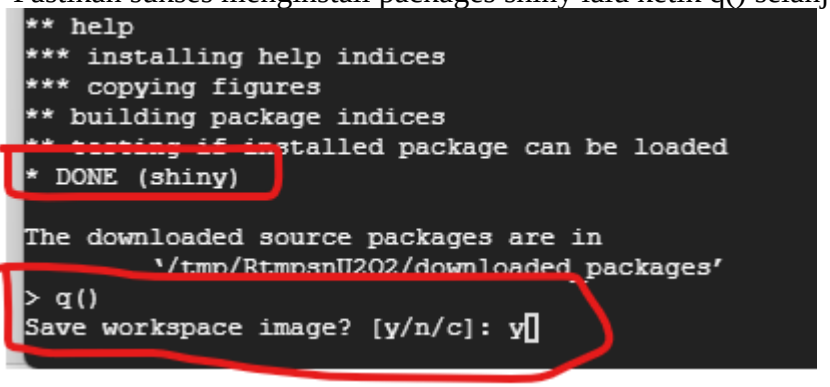
2.2.7. Ketik sudo -i R



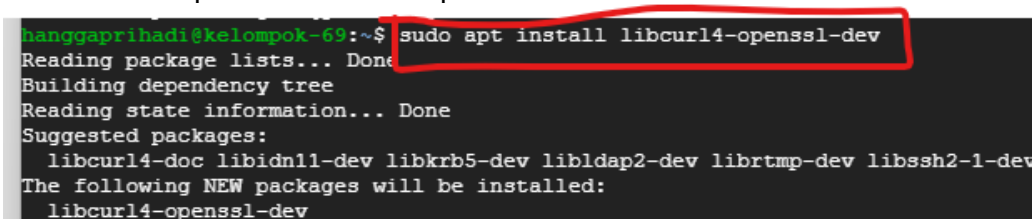
2.2.8. Ketik install.packages('shiny') (Ditunggu saja memang lama ± 40 menit)



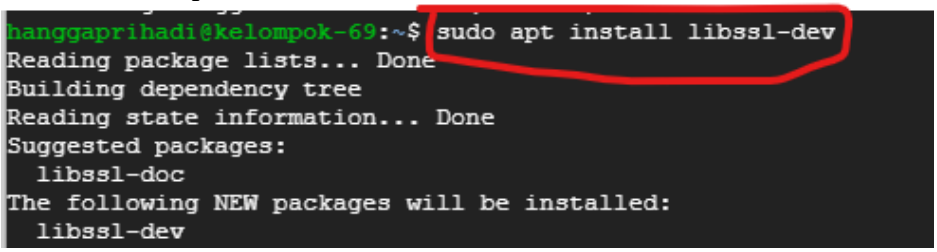
2.2.9. Pastikan sukses menginstall packages shiny lalu ketik q() selanjutnya ketik y



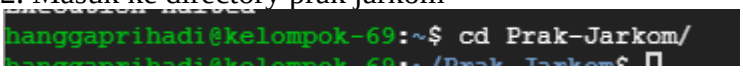
2.2.10. Ketik sudo apt install libcurl4-openssl-dev



2.2.11. Ketik sudo apt install libssl-dev



2.2.12. Masuk ke directory prak jarkom



2.2.13. Ketik sudo R -e "shiny::runApp(host='0.0.0.0', port=11xx)" isi xx dengan nomor kelompok

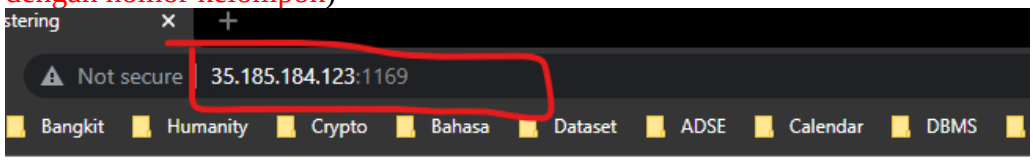
```
hanggaprihadi@kelompok-69:~/Prak-Jarkom$ sudo R -e "shiny::runApp(host='0.0.0.0', port=1169)"

R version 3.5.2 (2018-12-20) -- "Eggshell Igloo"
Copyright (C) 2018 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> shiny::runApp(host='0.0.0.0', port=1169)
Loading required package: shiny

Listening on http://0.0.0.0:1169
```

2.3. Testing

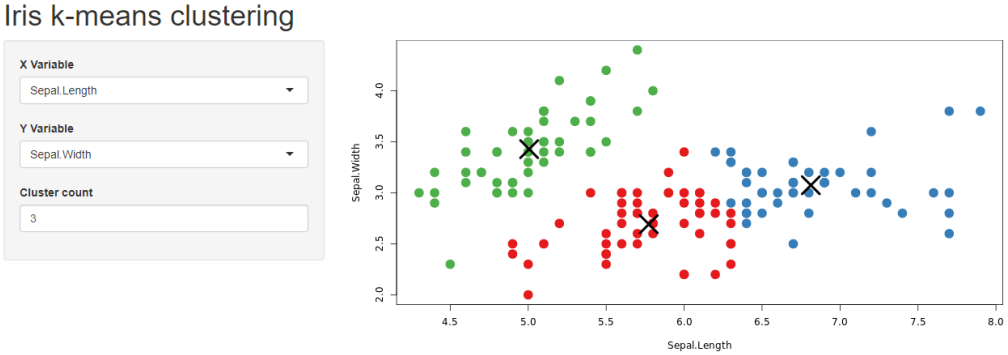
2.3.1. Copy External IP kalian

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP
✓	kelompok-69	asia-southeast1-a			10.148.0.8 (nic0)	35.185.184.123

2.3.2. Paste External IP di addbress bar kalian lalu tambahkan dengan 11xx (isi xx dengan nomor kelompok)



2.3.3. Jika sukses maka akan muncul seperti ini



3. **Simpulan**
   Isi simpulan sendiri ya (Minimal 4 baris)