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<p>Hari/Tanggal : 29 November 2021</p>	<p>Praktikum Jaringan Komputer</p>	<p>Nama Asisten Labratorium :</p> <ol style="list-style-type: none"> 1. Annur Hangga Prihadi 2. Harfansa Nasrullah 3. Faiz Kumara 4. Uray Asyifa

GCP Instance

1. Alat dan Bahan

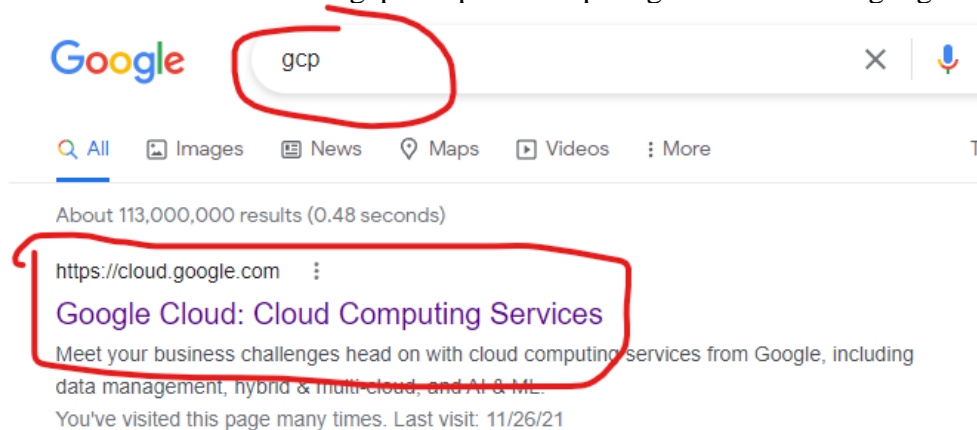
1.1. Hardware: Laptop atau PC

1.2. Services: Google Cloud Platform

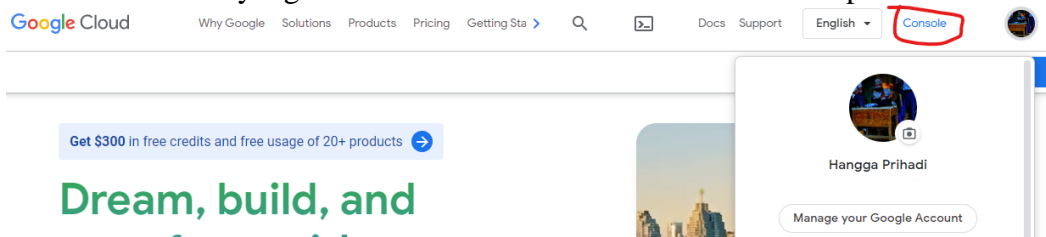
2. Elemen Kompetensi

2.1. Membuat GCP Instance

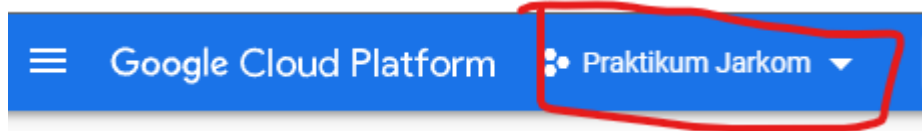
2.1.1. Buka browser lalu ketik gcp dan pilih link paling atas atau cloud.google.com



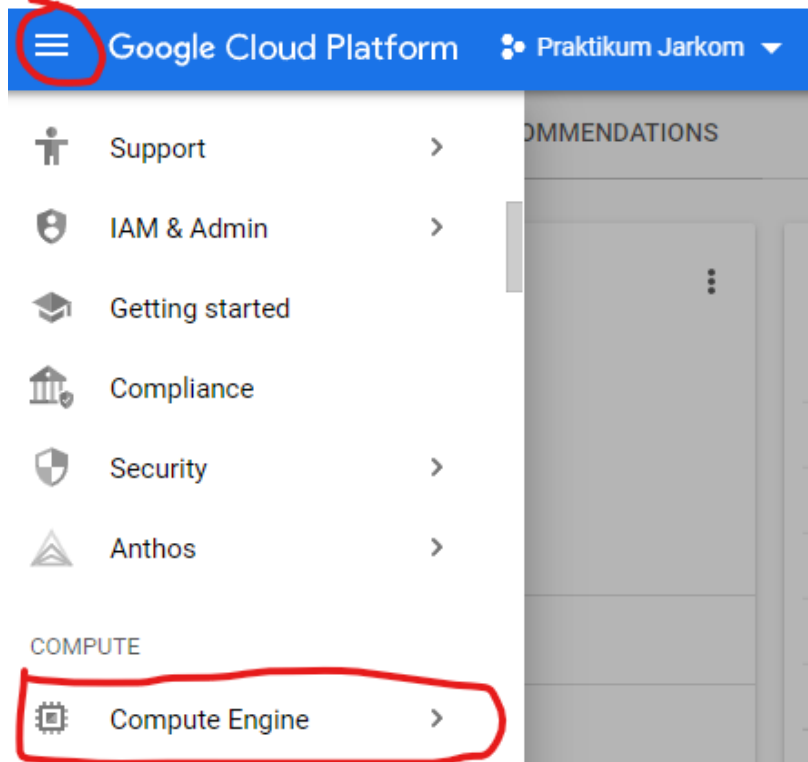
2.1.2. Gunakan email yang telah diberi hak akses masuk ke GCP dan pilih console



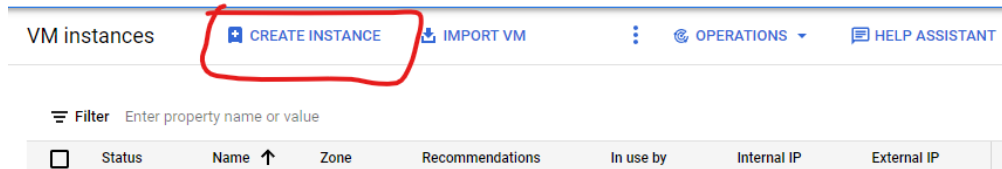
2.1.3. Pastikan project yang muncul adalah Praktikum Jarkom



2.1.4. Pilih Compute Engine



2.1.5. Pilih Create Instance



2.1.6. Buat GCP Instance dengan ketentuan berikut

Name	kelompok-xx (isi xx dengan nomor kelompok)
Region	asia-southeast1 (Singapore)
Zone	asia-southeast1-a
Series	E2
Machine type	e2-micro (2 vCPU, 1 GB memory)
Firewall	Centang Allow HTTP traffic lalu klik NETWORKING, DISKS, SECURITY, MANAGEMENT, SOLE-TENANCY
Network tags	web-server-kelompok-xx (isi xx dengan nomor kelompok) lalu klik create

Name *
kelompok-69

Labels ?

+ ADD LABELS

Region *
asia-southeast1 (Singapore) ?
Region is permanent

Zone *
asia-southeast1-a ?
Zone is permanent

Machine configuration

Machine family

GENERAL-PURPOSE

COMPUTE-OPTIMIZED

MEMORY-OPTIMIZED

Machine types for common workloads, optimized for cost and flexibility

Series
E2

CPU platform selection based on availability

Machine type
e2-micro (2 vCPU, 1 GB memory)



vCPU

1 shared core

Memory

1 GB

Firewall ?

Add tags and firewall rules to allow specific network traffic from the Internet

☒ Allow HTTP traffic

☐ Allow HTTPS traffic

▼ NETWORKING, DISKS, SECURITY, MANAGEMENT, SOLE-TENANCY

Networking

Hostname and network interfaces

Network tags
web-server-kelompok-69

CREATE

CANCEL

EQUIVALENT COMMAND LINE

2.1.7. Pastikan instance kalian sukses terbuat seperti gambar berikut

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	✓	kelompok-69	asia-southeast1-a			10.148.0.8 (nic0)	35.197.143.163	SSH

2.2. Setting GCP Instance

2.2.1. Klik SSH pada Instance milik kalian

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	✓	kelompok-69	asia-southeast1-a			10.148.0.8 (nic0)	35.197.143.163	SSH

2.2.2. Pastikan Instance SSH yang muncul milik kalian

```
hanggapriyadi@kelompok-69: ~ - Google Chrome
ssh.cloud.google.com/projects/praktikum-jarkom/z
Connected, host fingerprint: ssh-rsa 0 E0:D0:
:E1:C1:A8:B1:9B:24:F6:16:25:FE:29:63:C3:0B:62
Linux kelompok-69 4.19.0-18-cloud-amd64 #1 SM
6_64
The programs included with the Debian GNU/Lin
the exact distribution terms for each program
individual files in /usr/share/doc/*/copyright
Debian GNU/Linux comes with ABSOLUTELY NO WAR
permitted by applicable law.
hanggapriyadi@kelompok-69:~$
```

2.2.3. Ketik sudo apt update

```
hanggapriyadi@kelompok-69:~$ sudo apt update
Hit:1 http://deb.debian.org/debian buster InRelease
Get:2 http://deb.debian.org/debian buster-updates InRelease [51.9 kB]
Get:3 http://deb.debian.org/debian buster-backports InRelease [46.7 kB]
Get:4 http://security.debian.org/debian-security buster/updates InRelease [65.4 kB]
Get:5 http://packages.cloud.google.com/apt cloud-sdk-buster InRelease [6774 B]
Get:6 http://packages.cloud.google.com/apt google-cloud-packages-archive-keyring InRelease [4928 B]
```

2.2.4. Ketik sudo apt install r-base, jika disuruh input y/n silahkan input y (**Ditunggu saja memang agak lama**)

```
hanggapriyadi@kelompok-69:~$ sudo apt install r-base
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
After this operation, 700 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

2.2.5. Ketik sudo apt install git, jika disuruh input y/n silahkan input y

```
hanggapriyadi@kelompok-69:~$ sudo apt install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  git-man libcurl3-gnutls liberror-perl libpcre2-8-0
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui g
The following NEW packages will be installed:
  git git-man libcurl3-gnutls liberror-perl libpcre2-8-0
0 upgraded, 5 newly installed, 0 to remove and 3 not upgraded.
Need to get 7827 kB of archives.
After this operation, 39.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

2.2.6. Pastikan R dan git telah terinstall dengan cara ketik R --version && git --version

```
hanggapriyadi@kelompok-69:~$ R --version && git --version
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 the terms of the
GNU General Public License versions 2 or 3.
For more information about these matters see
http://www.gnu.org/licenses/.

git version 2.20.1
```

2.2.7. Ketik git clone https://github.com/hanggaa/Prak-Jarkom.git

```
hanggapriyadi@kelompok-69:~$ git clone https://github.com/hanggaa/Prak-Jarkom.git
Cloning into 'Prak-Jarkom'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 6 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), done.
```

2.2.8. Ketik sudo -i R

```
hanggapriyadi@kelompok-69:~$ sudo -i R
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.

> 
```

2.2.9. Ketik `install.packages('Rcpp')`

```
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.  
> install.packages('Rcpp')  
█
```

2.2.10. Setelah sukses install Rcpp lalu ketik `q()` selanjutnya ketik `y`

```
* DONE (Rcpp)  
The downloaded source packages are in  
  '/tmp/RtmpfplYOD/downloaded packages'  
> q()  
Save workspace image? [y/n/c]: y  
█
```

3. Simpulan

Isi simpulan sendiri ya (Minimal 4 baris)