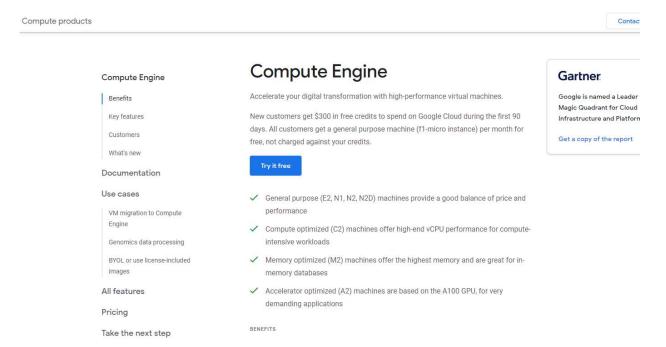
Navodila za ustvarjanje virtualke na GCloud-u

Link -> GCloud

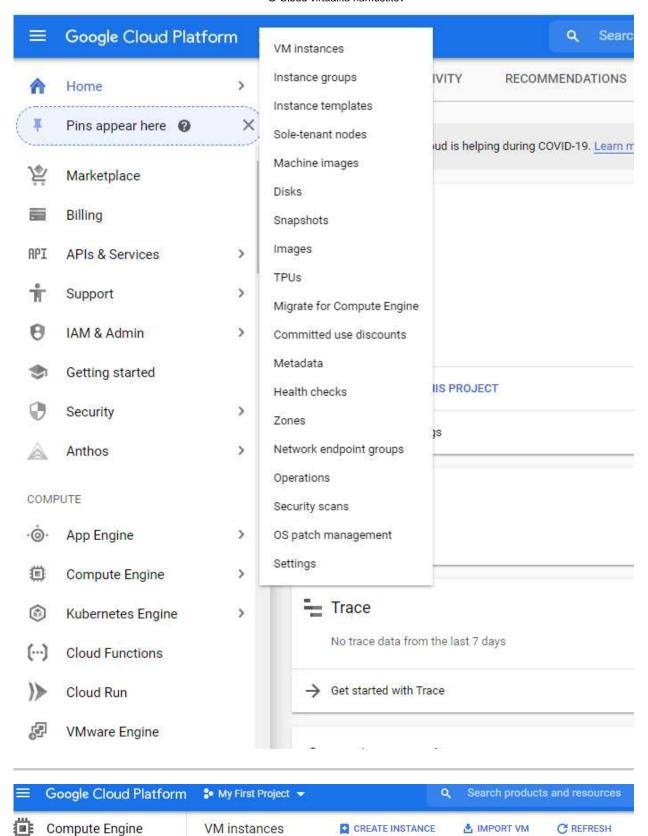
"Try for free" in se prijavimo z google računom. Potrebno je podatki bančni račun.

Accelerate your digital transformation with high-performance virtual machines. New customers get \$300 in free credits to spend on Google Cloud during the first 90 days. All customers get a general purpose machine (f1-micro instance) per month for free, not charged against your credits.

-> Bančna kartica je porebna zaradi preverjanja indentitete. Po poteku promocijskega obdobija, je porebno posebej aktivirati če želite plačevati za virtualke.



Usvarimo virtualno mašino. -> Izberemo VM istances

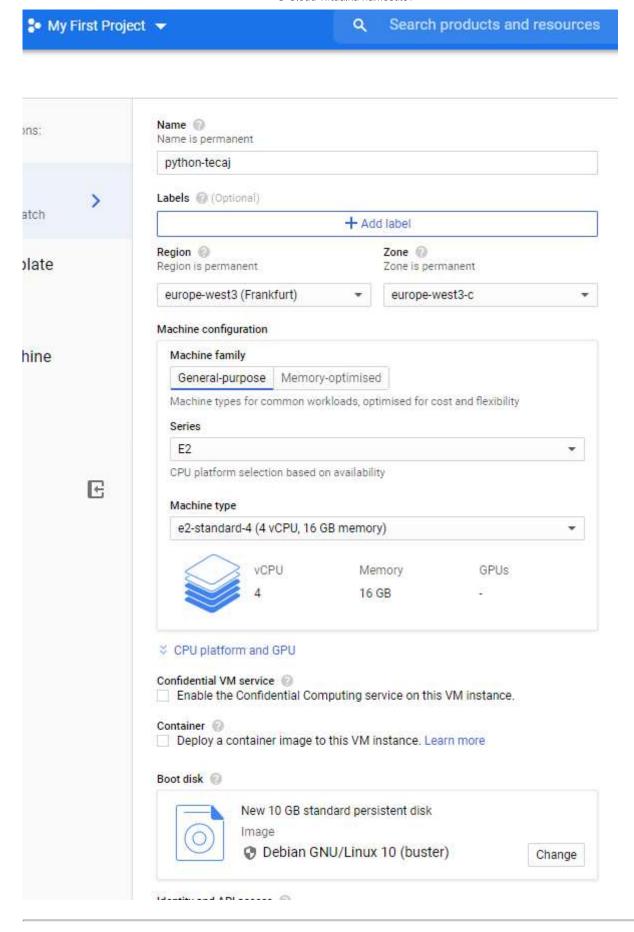


Name: python-tecaj (oziroma poljubno)

VM instances

Region: Evropska regija (optimalno: europe-west-3)

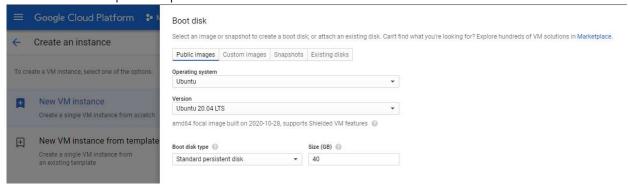
Machine configuration: e2-standard-4 (oziroma poljubno)



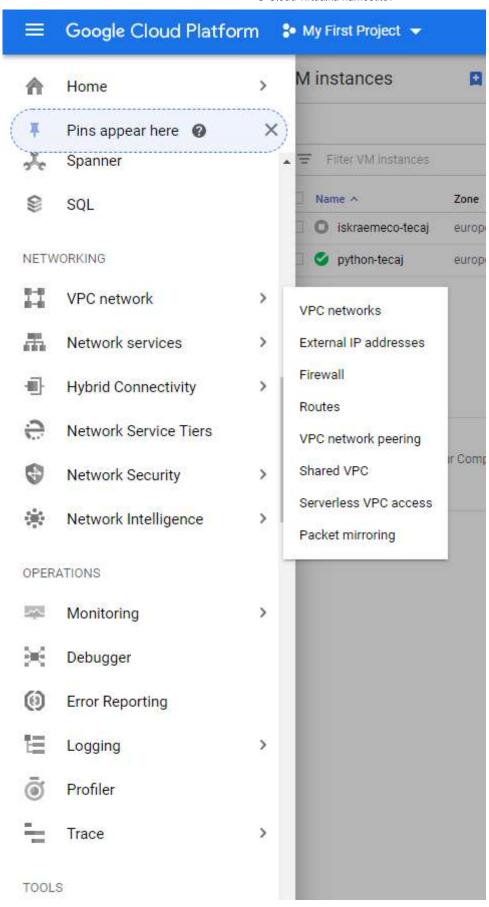
Boot disk: Spremenimo v Ubuntu 20.0.4 LTS

Size (GB): 40GB

Ostale nastavitve pustimo privzete.



Odpremo Networking -> VPC network -> External IP addresses.



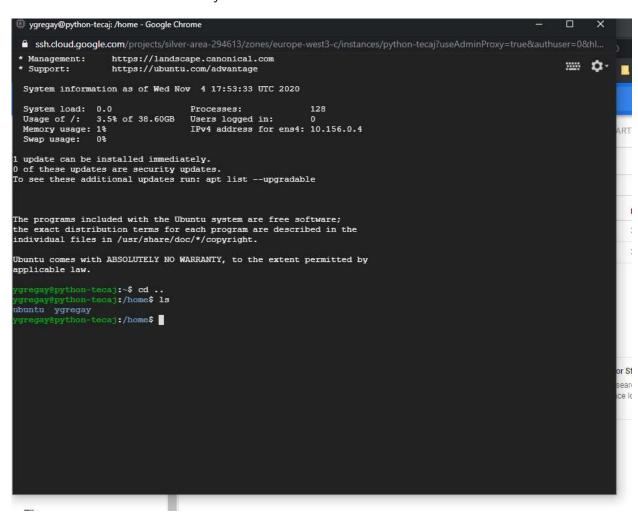
Tip naše virtualke spremenito iz *Ephemeral* v *Static*. Ime je lahko poljubno.



Sprva vzpostavimo SSH povezavo tako, da kliknemo gumb SSH, ki nam odpre konzolo v novem browser oknu.



Premaknemo se v home direktorij.



Ustvarimo novega uporabnika sudo adduser <new user>

```
thon-tecaj:~$ cd .
 gregay@python-tecaj:/home$ 1s
ubuntu ygregay
ygregay@python-tecaj:/home$ sudo adduser gregor
Adding user `gregor' ...
Adding new group `gregor' (1003) ...
Adding new user `gregor' (1002) with group `gregor' ...
Creating home directory `/home/gregor' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for gregor
Enter the new value, or press ENTER for the default
         Full Name []:
         Room Number []:
         Work Phone []:
         Home Phone []:
         Other []:
Is the information correct? [Y/n] Y
```

In ga premaknemo v sudo skupino. sudo usermod -aG sudo <new_user>

```
ygregay@python-tecaj:~$ sudo usermod -aG sudo gregor
ygregay@python-tecaj:~$ _
```

Zamenjamo na novonarejenega uporabnika. su <new user>

In se premaknemo v njegovo mapo. cd

Ustvarimo mapo .ssh. mkdir .ssh

In se premaknemo v to mapo. cd .ssh

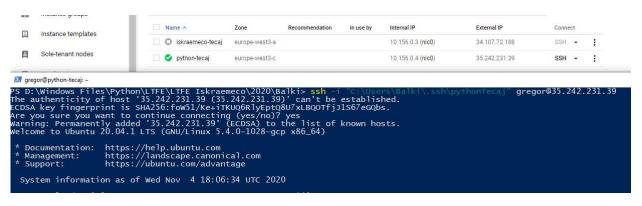
```
gregay python-tecaj:/home$ su gregor
Password:
gregor@python-tecaj:/home$ cd
gregor@python-tecaj: $ 1s
gregor@python-tecaj:~$ ls -la
total 20
drwxr-xr-x 2 gregor gregor 4096 Nov 4 17:56 .
drwxr-xr-x 5 root root 4096 Nov 4 17:56 ...
-rw-r--r-- 1 gregor gregor 220 Nov 4 17:56 .bash logout
-rw-r--r- 1 gregor gregor 3771 Nov 4 17:56 .bashrc
-rw-r--r-- 1 gregor gregor 807 Nov 4 17:56 .profile
regor@python-tecaj:~$ mkdir .ssh
regor@python-tecaj:~$ cd .ssh
regor@python-tecaj:~/.ssh$ ls -la
total 8
drwxrwxr-x 2 gregor gregor 4096 Nov 4 18:00 .
drwxr-xr-x 3 gregor gregor 4096 Nov 4 18:00 ...
regor@python-tecaj:~/.ssh$
```

Ustvarimo nov file authorized keys. nano authorized keys

Vanj prilepimo public key (to je public key našaga računalnika s katerim se želimo povezati na vritualko).



Sedaj se lahko preko powershella povežemo. ssh -i "<pot\do\nasega\kljuca>" <new_user>@<external_IP> (pot do ključa je potrebna če ni v privzeti mapi)



Zaženemo sledeče ukaze

sudo apt-get update;

sudo apt-get install -y make build-essential libssl-dev zlib1g-dev libbz2-dev libreadline-dev libsqlite3-dev wget curl llvm libncurses5-dev libncursesw5-dev xz-utils tk-dev libffi-dev liblzma-dev python-openssl;

```
curl https://pyenv.run | bash;
nano ~/.bashrc;
Na konec datoteke prilepimo:
   export PATH="$HOME/.pyenv/bin:$PATH"
   eval "$(pyenv init -)"
   eval "$(pyenv virtualenv-init -)"
```

```
gregor@python-tecaj: ~
  GNU nano 4.8
                                                                 /home/gre
 alias
               ='grep --color=auto'
    alias fgrep='fgrep --color=auto'
alias egrep='egrep --color=auto'
 export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:
# some more ls aliases
alias ll='ls -alF'
alias la='ls -A'
alias l='ls -CF'
  Add an "alert" alias for long running commands. Use like so:
alias alert 'notify-send --urgency=low -i "$([ $? = 0 ] && echo termi
 f [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
  | shopt -oq posix; then
| if [ -f /usr/share/bash-completion/bash_completion ]; then
      /usr/share/bash-completion/bash_completion
  elif [ -f /etc/bash_completion ]; then
    . /etc/bash_completion
 xport PATH="$HOME/.pyenv/bin:$PATH"
     "$(pyenv init -)
     "$(pyenv virtualenv-init -)"
                                       Where Is
NG Get Help
                  ∧⊙ Write Out
                                                          Cut Text
                     Read File
  Exit
                                        Replace
                                                          Paste Text
```

Zaženemo:

exec "\$SHELL"

Zaženemo komande:

```
pyenv install -v 3.9.0;
```

pyenv global 3.9.0;

Ustvarimo novo mapo, kjer bomo imeli gradiva.

mkdir tecaj;

In se premaknemo v to mapo.

cd tecaj;

V mapo kloniramo Git. git clone https://github.com/leon11s/python-napredni-public.git;

Kopiramo kloniran git repositorij v našo mapo. cp -r python-napredni-public <nova_mapa>

Premaknemo se v novo mapo. cd <nova_mapa>

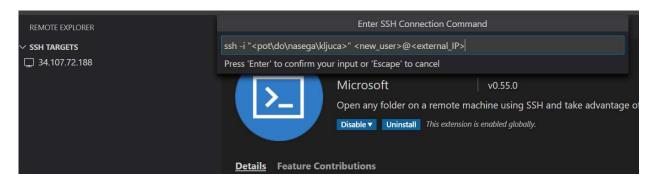
Namestimo venv: python -m pip install virtualenv

Ustvarimo virtualno okolje: python -m venv .venv

In ga zaženemo: source .venv/bin/activate

Upgradamo pip: python -m pip install --upgrade pip

Odpremo visual studio code in instaliramo Remote-SSH extension



Za ustvariti ssh ključ na windows naredimo:

ssh-keygen

"C:\Users\Gregor\.ssh\imeKljuca"