



Criar a própria chave SSH - Network public

Obviamente é possível criar uma **chave própria**, a ideia é que a **máquina** que queria se conectar na **máquina virtual** possua essa **chave** enquanto a **máquina virtual** detém a **chave pública**.

Da pra usar um comando do **SSH** que **gera um par de chaves (pública e privada)**, especificando o tipo dela:

```
lucas@DESKTOP-A5T3N3N MINGW64 ~/desktop/ambiente_dev/Bionic
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
```

Depois disso ele **pergunta em que pasta salvar essas chaves**, aí depende a pasta que você quiser, no caso vou deixar onde tem o próprio **Vagrantfile**, também pode **escolher uma senha** para proteger o acesso a essas **chaves**:

```
lucas@DESKTOP-A5T3N3N MINGW64 ~/Desktop/ambiente_dev/Bionic
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/c:/Users/lucas/.ssh/id_rsa): C:\Users\lucas\Desktop\ambiente_dev\Bionic\id_bionic
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\lucas\Desktop\ambiente_dev\Bionic\id_bionic
Your public key has been saved in C:\Users\lucas\Desktop\ambiente_dev\Bionic\id_bionic.pub
The key fingerprint is:
SHA256:qpgMOUh00FQ8P0eMIu19Co5sWhyyocRUh97AK/4goe0 lucas@DESKTOP-A5T3N3N
The key's randomart image is:
+--[RSA 3072]-----+
|  .+o.              |
| oo+.              |
| .+o +B            |
| =ooo..o           |
| BBoo  S           |
| BB+...           |
| B=. o.            |
| .OE+..           |
| +.               |
| +.               |
+-----[SHA256]-----+
lucas@DESKTOP-A5T3N3N MINGW64 ~/Desktop/ambiente_dev/Bionic
$ ls
id_bionic id_bionic.pub Vagrantfile
```

Agora que a chave pública está criada, precisamos copiar ela pra **máquina virtual**, é bem simples também já que a pasta **vagrant** é uma pasta compartilhada, então a **máquina virtual** conhece os arquivos que estão lá que são da **máquina local**:

```
lucas@DESKTOP-A5T3N3N MINGW64 ~/Desktop/ambiente_dev/Bionic
$ vagrant ssh
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-58-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Tue Feb  8 17:32:39 UTC 2022

System load:  0.0               Processes:    92
Usage of /:   2.6% of 61.80GB   Users logged in: 0
Memory usage: 11%              IP address for eth0: 10.0.2.15
Swap usage:   0%               IP address for eth1: 192.168.100.41

 * Super-optimized for small spaces - read how we shrank the memory
   footprint of MicroK8s to make it the smallest full K8s around.
   https://ubuntu.com/blog/microk8s-memory-optimisation

255 packages can be updated.
198 updates are security updates.

Last login: Tue Feb  8 17:32:01 2022 from 10.0.2.2
vagrant@vagrant:~$ ls /vagrant/
id_bionic id_bionic.pub Vagrantfile
vagrant@vagrant:~$
```

Basta **copiar** a chave pública pra dentro da **máquina virtual**:

```
vagrant@vagrant:~$ cp /vagrant/id_bionic.pub .
vagrant@vagrant:~$ ls
id_bionic
vagrant@vagrant:~$ cat id_bionic.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgDAQlZdLHMtQH+1N7h1iod5D0YImIC8lwDtz509kreHJb4ezPl+pPyfuq2UzmB4oMnLuQt2k/H7IIiXESqPguSV/q8KnrD
9ESkk+JgH3UDSDFwSXvsGxg46yZrwrDTcbn5takqly1wXgdyvmk8ZGi1StcztdGRI3NV+fq+Z5DeXSqqaBDMzeq1foN15IEFQvniZQ89UC1v1JRNMSd0tCLoNxnN/9+iRar
nXAXz2ZHndeVDjXwkaUJ3mo8Ylg22dsjcyox8922ckGpsfs2haU+vuqz2wmtVHLjXB6VBqE2eZkc8psylSbXBoHvkV3evlGSrZzpkfzdy7QM3VE4a8xvNEEC9Y7jhXmp0G
jZDnWVCPUw6oF48ufL4/W3yqe/E7nveOLYkaUlymYD1wle6KjM/14I9X55KHsseuFNcNN+qyINDrceRbc41IEsUAENB7teUx5uUY+1yEk81+H2xr8FP191WZ415oJ3mm/
6Zc= lucas@DESKTOP-A5T3N3N
vagrant@vagrant:~$
```

E agora **pegar o conteúdo dessa chave pública** e **passar para o arquivo de authorized_keys** da máquina virtual:

```
vagrant@vagrant:~$ cat id_bionic.pub >> .ssh/authorized_keys
vagrant@vagrant:~$ cat .ssh/authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA8y3qabymSKRT01ZYDaySphY1S4bo1p2QLa5YS9ZamZpBr4BBkr
5GycBP/G8K8LpSiPEy77MKg4C8U210JkEPDcb2pz3JyfIen8i4/VutndQhpVO4du0jScAn04Q9weqtmmhwcA43BHd
Rj9ra+IKAgrcUVJk1FcfSI/XcepgYagLJcWSeWhcmxJyArQG9Plz8h8x87qNhmGz7mZ4YOLNo796KoVL8SuA4N9y
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAq1zdLHmIqH+iN7h1iod5D0YImIC81wDtz5O9kReHJb4eZP1+p
9ESkk+JgH3UDsDfWsxvsgxg46yzrwrDTcBn5taKqly1wXGdyvmk8ZGi1StcztDGrI3NV+fq+Z5DeXSYqaBDMzeqlf
nXAX7zZHndeVDjXwkaUJ4mo8Y1gz2dsJcyOxB9z2ckGpsfs2haU+vuqz2wmtvHLjXB6VBqE2eZkc8psylsbXBoHVk
jZDnWvcPuW6oQFN48ufL4/W3yqe/E7nveOLYkauYmYD1wle6KjM/i4I9X55kHsseUfNCNN+qyINDrceRbc4iIEsU
62c= lucas@DESKTOP-A5T3N3N
vagrant@vagrant:~$
```

Agora que a **chave pública** está na **máquina virtual** eu posso usar a **chave privada** da **máquina local** **para me conectar à máquina virtual**:

```
lucas@DESKTOP-A5T3N3N MINGW64 ~/Desktop/ambiente_dev/Bionic
$ ls
id_bionic  id_bionic.pub  Vagrantfile
lucas@DESKTOP-A5T3N3N MINGW64 ~/Desktop/ambiente_dev/Bionic
$ ssh -i id_bionic vagrant@192.168.100.41
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-58-generic x86_64)

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vagrant@vagrant:~$
```