LEGEND

Network or machine

Network interface

Private IP address in the local network (You can see it on your machine in your network settings, and on the server with ip addr)

W.X.Y.Z

Public IP address on the Internet (find your current network's public IP address with whatismyip.com, GitHub's current IP address with ping github.com, and your server's public IP address is defined by the AWS elastic IP)

Command executed on the server through a secure SSH tunnel (over a TCP connection on port 22)

> HTTP(S) request (over a TCP connection)

Local network connection

Reading local files _ _ _ _

Files transferred with SFTP through a secure SSH tunnel (over a TCP connection on port 22)

Commits & files transferred with Git through SSH over TCP or through HTTPS

Git repository

/path/to/repo

Long-lived process (you can list them and their relationships on the server with ps -ef --forest)

> Process Type command executed

Short-lived process (stops when done or with Ctrl-C)

command

Application on your local machine (also a type of process)

Amazon Web Services resource

Database (MySQL or MongoDB)



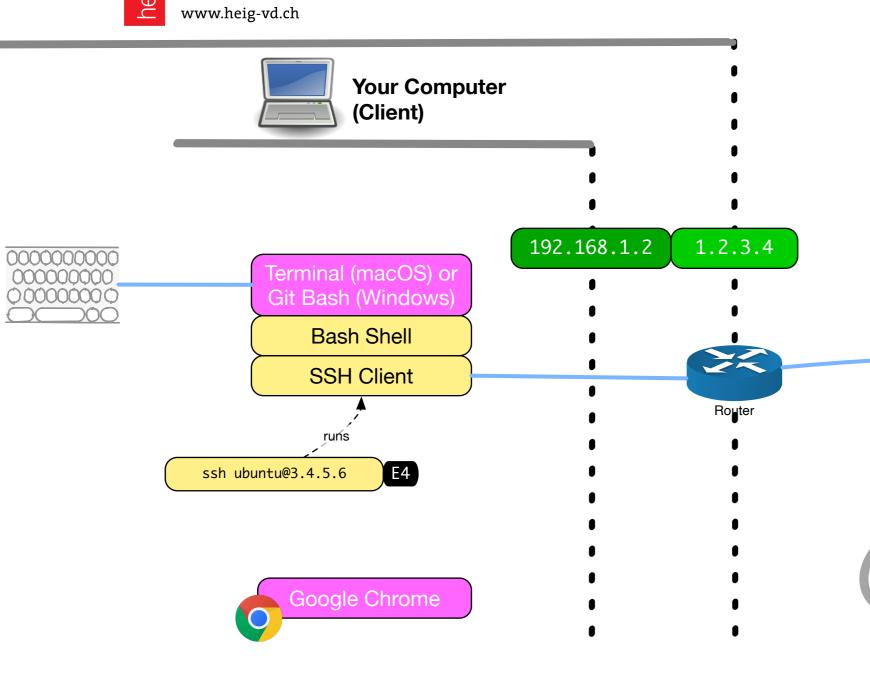


Exercice step

Database request (over a TCP connection)



School Network



Internet



E1 Launch an Azure virtual machine

E2 Configure a security group (open ports for your virtual machine in the Azure firewall)

Connect to your Azure virtual machine over SSH

E5 Create your own user

E6 Change your hostname



sudo useradd -m john_doe E5 --- modifies --- /etc/passwd

sudo passwd john_doe E5 --- modifies --- t--- /etc/shadow

echo "john-doe.archidep-2018.media" | sudo tee /etc/hostname

sudo usermod -a -G sudo john_doe E5

(copy Ubuntu's authorized_keys file) E5

sudo hostname john-doe.archidep-2018.media E6

/etc/group

/etc/hostname

/home/john_doe/.ssh/authorized_keys

