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

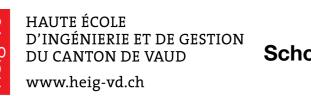
Application on your local machine (also a type of process)

Amazon Web Services resource

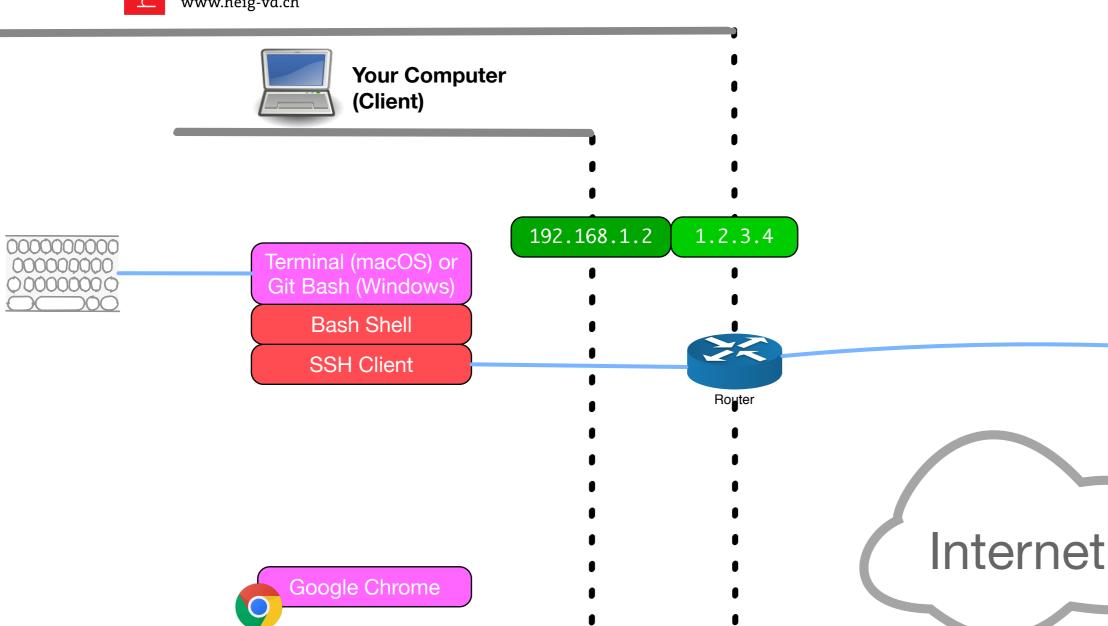
Database (MySQL or MongoDB)



Exercice step E1 Description



School Network



EXERCICE: Run your own virtual server on Amazon Web Services (bonus)

E1 Launch an AWS EC2 instance

E2 Configure a security group (open ports for your instance in the AWS firewall)

E3 Allocate an elastic IP address and assign it to your instance (this makes your instance reachable on a new public Internet IP address)

Create your own user

E5 Change your hostname



port 443

Amazon Web Services Cloud

