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)

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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)

1.2.3.4

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

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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)

Application

Amazon Web Services resource



Database (MySQL or MongoDB)



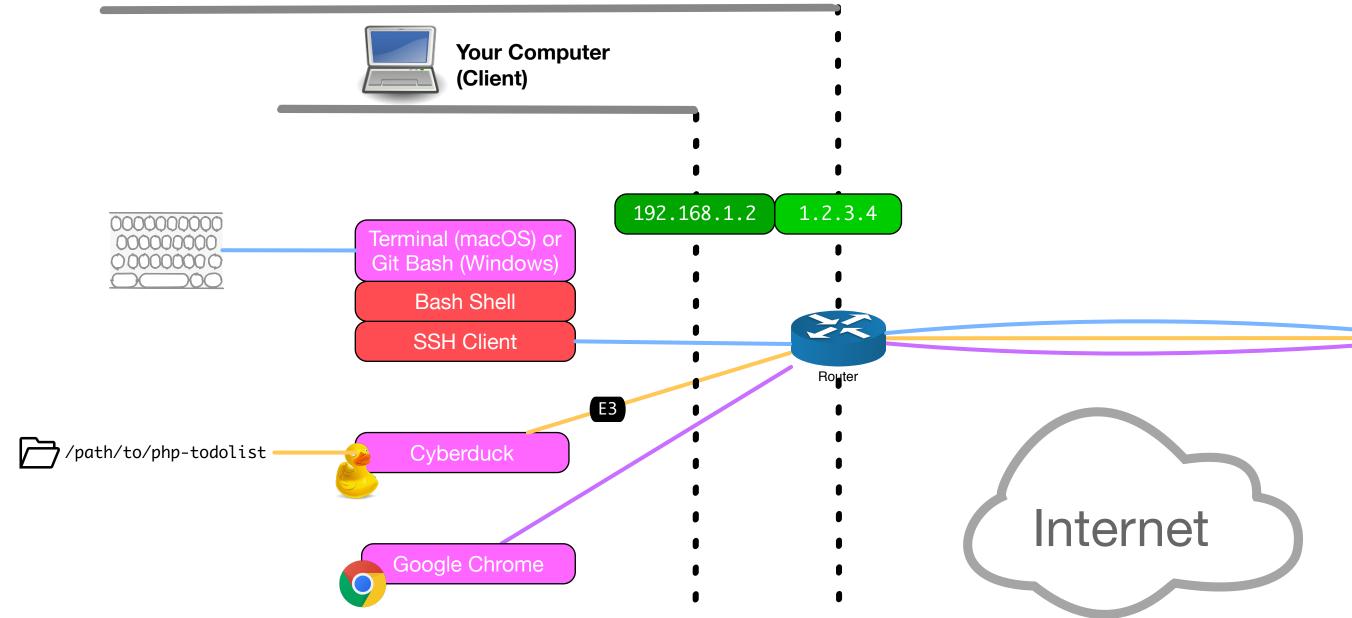
Exercice step

E1 Description

HAUTE ÉCOLE
D'INGÉNIERIE ET DE GESTION
DU CANTON DE VAUD

www.heig-vd.ch

School Network



EXERCICE: Deploy a PHP application with SFTP

- Install MySQL with APT & secure installation (APT automatically configures systemd to launch MySQL)
- Install PHP and PHP-FPM with APT (also automatically configures systemd to launch PHP-FPM)
- Upload the application with Cyberduck (or another SFTP client)
- E4 Initialize the todolist MySQL database
- E5 Update the configuration
- E6 Run the PHP development server



