T5 - Systems and Networks Seminar

Day 05

Ansible

{EPITECH.}

You have probably noticed it, it's painful and repetitive to install servers.
There are automation solutions that you will discover today

Task 00 - client

If you don't have a Linux host, you need to install a vm client debian 10.
Your client must be able to reach your server

Task 01 - server (3PT)

Install a new virtual machine with Debian 10.
The machine must be clear and clean.
Nothing needs to be installed apart the base system.

- Configure the ssh server to be able to access with "root" account from your host.
  Also, you must be able to log in to the root account without password.

- The network card must be connected in brigde mode and be accessible by your host for deploy your playbook.

Task 02 - Install ansible

Ansible automates tasks.
Your role is to install it in your host. (in your client if you don't have a Linux host)

Task 03- Network name (1PT)

Create a role which change the name to `nsapoold05` for your server

Task 04 - User (2pts)

Create a role which create a user named *marvin* with the following characteristics:

- Password: NsaPool42
- "home" directory: /home/marvin

Task 05 - Custom message of the day (2PT)

Create a role which change the welcome message when you login into the server.

Task 06 - Base (2PT)

Create a role which update remote directory apt and install following packages :
- vim
- git
- tree
- htop
- curl
- emacs
- net-tools
- sudo
- make
- unzip
- python3
- python3-pip

Task 07 - Installation apache (2PT)

Create a role which install latest version of apache2 and copy provided website in root directory of apache. Website must listen on port 80.

Task 08 - Installation of PHP (3pt)

Create a role which install php >= 7.3 and the following modules

- php-cli
- php-fpm
- php-json
- php-pdo
- php-mysql
- php-zip
- php-gd
- php-mbstring
- php-curl
- php-xml
- php-pear
- php-bcmath
- php-intl

to end, Ensure timezone is set to "Europe/Paris" in php.ini

Task 09 - Install mysql and copy database. (2pt)

Create a role which install latest MariaBD version and copy provided database.
Create a user for the database with the following features:

- user: `nsad04`
- rights: All on all databases
- password: `E24h7U5kA9HJhq5VM98pm7p5zmJpf8AK`

Task 10 - End (1pt)

Finally, if everything works, you should see a success about marvin user on the website available at http://[ip]/data.php