

**INSTITUTO INFNET
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GRADUAÇÃO EM SISTEMAS DE
INFORMAÇÃO**



**Projeto de Bloco - Arquitetura de
Infraestrutura de Aplicações**

TESTE DE PERFORMANCE – TP2

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Conteúdo

1.	Introdução	3
2.	Conteúdo	3

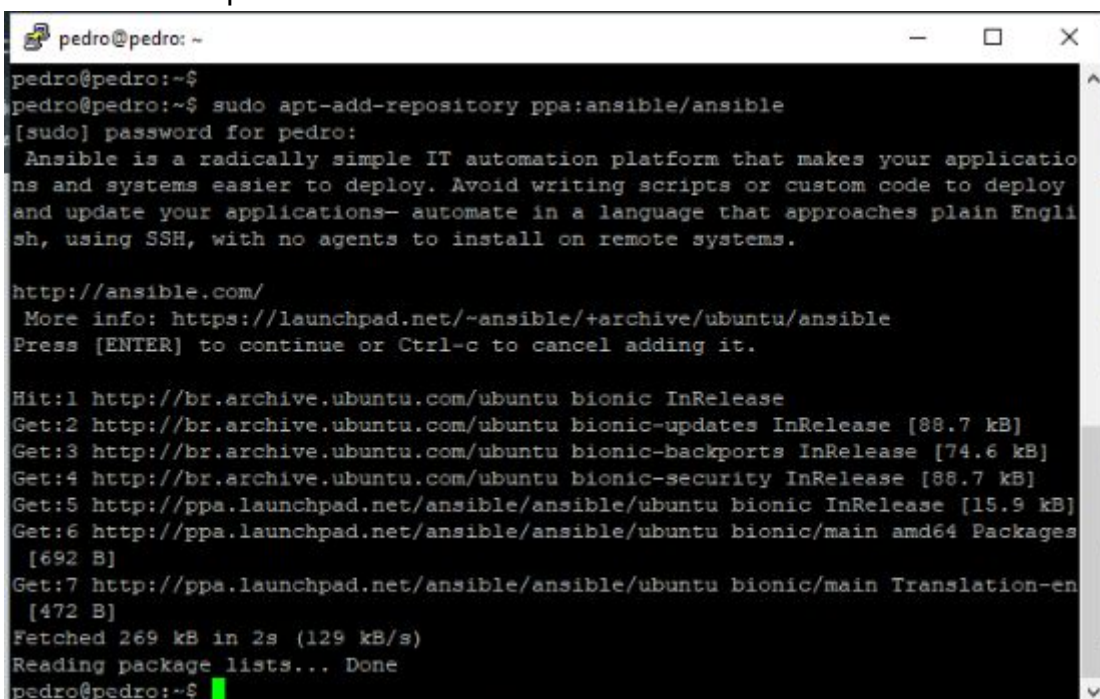
1. Introdução

2. Conteúdo

1 - Instalando o ssh

```
pedro@pedro:~$  
pedro@pedro:~$  
pedro@pedro:~$  
pedro@pedro:~$  
pedro@pedro:~$  
pedro@pedro:~$ sudo apt-get install openssh-server  
[sudo] password for pedro:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  liburap0 ncurses-term openssh-sftp-server ssh-import-id  
Suggested packages:  
  molly-guard monkeysphere rssh ssh-askpass  
The following NEW packages will be installed:  
  liburap0 ncurses-term openssh-server openssh-sftp-server ssh-import-id  
0 upgraded, 5 newly installed, 0 to remove and 14 not upgraded.  
Need to get 683 kB of archives.  
After this operation, 5,422 kB of additional disk space will be used.  
Do you want to continue? [Y/n] Y
```

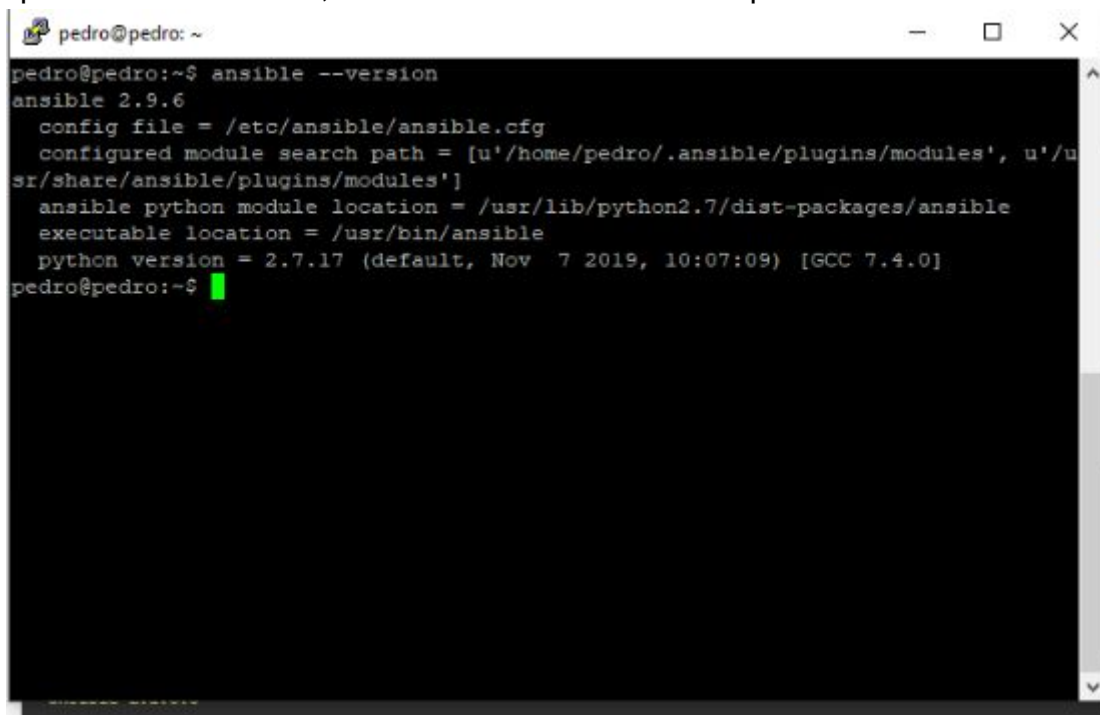
2 - Adicionando repositório ansible



```
pedro@pedro: ~  
pedro@pedro:~$  
pedro@pedro:~$ sudo apt-add-repository ppa:ansible/ansible  
[sudo] password for pedro:  
Ansible is a radically simple IT automation platform that makes your applications  
and systems easier to deploy. Avoid writing scripts or custom code to deploy  
and update your applications— automate in a language that approaches plain English,  
using SSH, with no agents to install on remote systems.  
  
http://ansible.com/  
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible  
Press [ENTER] to continue or Ctrl-c to cancel adding it.  
  
Hit:1 http://br.archive.ubuntu.com/ubuntu bionic InRelease  
Get:2 http://br.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]  
Get:3 http://br.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]  
Get:4 http://br.archive.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]  
Get:5 http://ppa.launchpad.net/ansible/ansible/ubuntu bionic InRelease [15.9 kB]  
Get:6 http://ppa.launchpad.net/ansible/ansible/ubuntu bionic/main amd64 Packages  
[692 B]  
Get:7 http://ppa.launchpad.net/ansible/ansible/ubuntu bionic/main Translation-en  
[472 B]  
Fetched 269 kB in 2s (129 kB/s)  
Reading package lists... Done  
pedro@pedro:~$
```

3 -

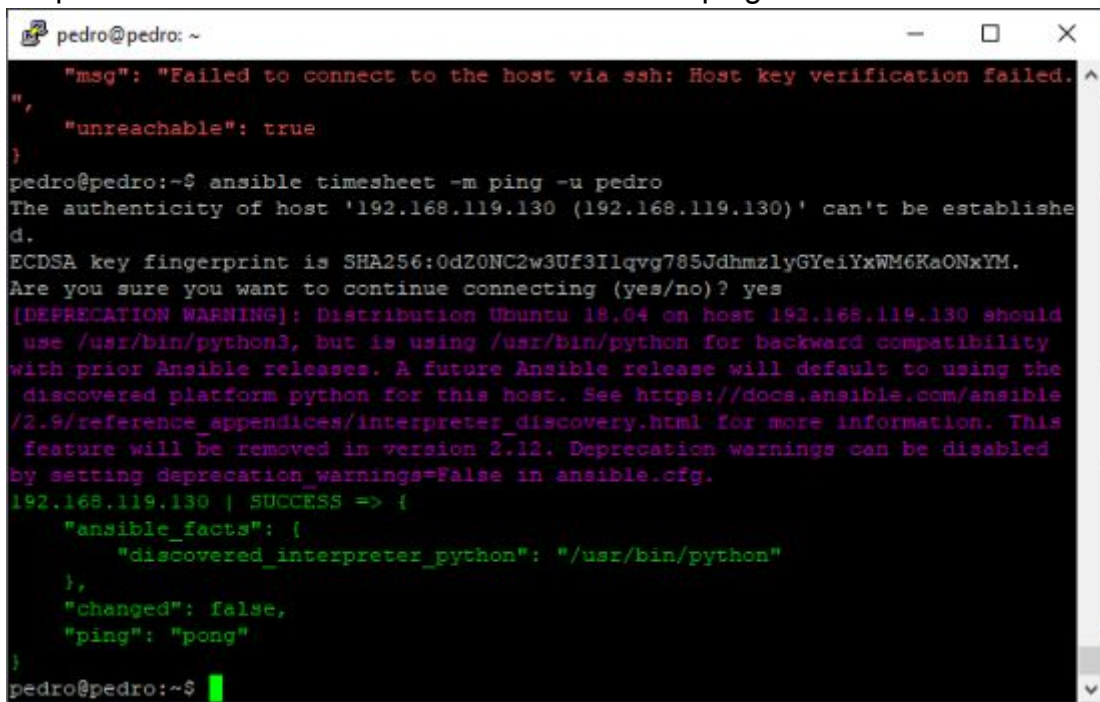
após instalar o ansible, o comando `ansible --version` para mostrar a versão



```
pedro@pedro:~$ ansible --version
ansible 2.9.6
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/home/pedro/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 2.7.17 (default, Nov  7 2019, 10:07:09) [GCC 7.4.0]
pedro@pedro:~$
```

4 -

Grupo de servidor com o nome “timesheet” e um ping



```
pedro@pedro:~$ ansible timesheet -m ping -u pedro
The authenticity of host '192.168.119.130 (192.168.119.130)' can't be established.
ECDSA key fingerprint is SHA256:0dZ0NC2w3Uf3Ilqvg785JdhmzlyGYeiYxWM6KaONxYM.
Are you sure you want to continue connecting (yes/no)? yes
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host 192.168.119.130 should use /usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
192.168.119.130 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
pedro@pedro:~$
```

5 -

Rodando o `ansible-playbook playbook.yml` Após a criação do `playbook.yml` e suas configurações

```
pedro@pedro: ~  
PLAY [timesheet] *****  
  
TASK [Gathering Facts] *****  
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host 192.168.119.130 should  
use /usr/bin/python3, but is using /usr/bin/python for backward compatibility  
with prior Ansible releases. A future Ansible release will default to using the  
discovered platform python for this host. See https://docs.ansible.com/ansible  
/2.9/reference_appendices/interpreter_discovery.html for more information. This  
feature will be removed in version 2.12. Deprecation warnings can be disabled  
by setting deprecation_warnings=False in ansible.cfg.  
ok: [192.168.119.130]  
  
TASK [Instalar timesheet] *****  
[WARNING]: Updating cache and auto-installing missing dependency: python-apt  
changed: [192.168.119.130]  
  
TASK [Garante que o NTP esta rodando] *****  
ok: [192.168.119.130]  
  
PLAY RECAP *****  
192.168.119.130 : ok=3 changed=1 unreachable=0 failed=0 s  
kipped=0 rescued=0 ignored=0  
pedro@pedro:~$
```

6 -

Gerando a estrutura básica

```
pedro@pedro: ~/wordpress-ansible/roles  
ok: [192.168.119.130]  
  
TASK [Garante que o NTP esta rodando] *****  
ok: [192.168.119.130]  
  
PLAY RECAP *****  
192.168.119.130 : ok=3 changed=0 unreachable=0 failed=0 s  
kipped=0 rescued=0 ignored=0  
  
pedro@pedro:~$ mkdir wordpress-ansible  
pedro@pedro:~$ cd wordpress-ansible  
pedro@pedro:~/wordpress-ansible$ touch playbook.yml  
pedro@pedro:~/wordpress-ansible$ touch hosts  
pedro@pedro:~/wordpress-ansible$ mkdir roles  
pedro@pedro:~/wordpress-ansible$ cd roles  
pedro@pedro:~/wordpress-ansible/roles$ ansible-galaxy init server  
- Role server was created successfully  
pedro@pedro:~/wordpress-ansible/roles$ ansible-galaxy init php  
- Role php was created successfully  
pedro@pedro:~/wordpress-ansible/roles$ ansible-galaxy init mysql  
- Role mysql was created successfully  
pedro@pedro:~/wordpress-ansible/roles$ ansible-galaxy init wordpress  
- Role wordpress was created successfully  
pedro@pedro:~/wordpress-ansible/roles$
```


7 -

Adicionando o conteúdo no arquivo de inventário

```
pedro@pedro: ~/wordpress-ansible
192.168.119.130 : ok=0 changed=0 unreachable=0 failed=1 s
kipped=0 rescued=0 ignored=0

pedro@pedro:~/wordpress-ansible$ ansible-playbook -i hosts playbook.yml -k -K
SSH password:
BECOME password[defaults to SSH password]:

PLAY [wordpress] *****

TASK [Gathering Facts] *****
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host 192.168.119.130 should
use /usr/bin/python3, but is using /usr/bin/python for backward compatibility
with prior Ansible releases. A future Ansible release will default to using the
discovered platform python for this host. See https://docs.ansible.com/ansible
/2.9/reference_appendices/interpreter_discovery.html for more information. This
feature will be removed in version 2.12. Deprecation warnings can be disabled
by setting deprecation_warnings=False in ansible.cfg.
ok: [192.168.119.130]

PLAY RECAP *****
192.168.119.130 : ok=1 changed=0 unreachable=0 failed=0 s
kipped=0 rescued=0 ignored=0

pedro@pedro:~/wordpress-ansible$
```

8 -

Acrescentando na role server

```
pedro@pedro: ~/wordpress-ansible
host. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html
for more information. This feature will be removed in version 2.12. Deprecation warnings can be
disabled by setting deprecation_warnings=False in ansible.cfg.
ok: [192.168.119.130]

TASK [server : Atualiza o cache apt de nosso servidor] *****
ok: [192.168.119.130]

TASK [server : Instala os pacotes necessarios] *****
[DEPRECATION WARNING]: Invoking "apt" only once while using a loop via squash_actions is
deprecated. Instead of using a loop to supply multiple items and specifying 'name: "{ item }"',
please use 'name: ['apache2', 'mysql-server', 'php-mysql', 'php', 'libapache2-mod-php',
'mcrypt', 'python-mysqldb']' and remove the loop. This feature will be removed in version 2.11.
Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.

changed: [192.168.119.130] => (item=[u'apache2', u'mysql-server', u'php-mysql', u'php', u'libapach
e2-mod-php', u'mcrypt', u'python-mysqldb'])

PLAY RECAP *****
192.168.119.130 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescue
d=0 ignored=0

pedro@pedro:~/wordpress-ansible$
pedro@pedro:~/wordpress-ansible$
```

9 -

Acrescentado conteúdo na role PHP e rodando ansible-playbook hosts playbook.yml

```
pedro@pedro: ~/wordpress-ansible
ok: [192.168.119.130]

TASK [server : Atualiza o cache apt de nosso servidor] *****
ok: [192.168.119.130]

TASK [server : Instala os pacotes necessarios] *****
[DEPRECATION WARNING]: Invoking "apt" only once while using a loop via squash_actions is
deprecated. Instead of using a loop to supply multiple items and specifying 'name: "{{ item }}"',
please use 'name: ['apache2', 'mysql-server', 'php-mysql', 'php', 'libapache2-mod-php',
'mcrypt', 'python-mysqldb']' and remove the loop. This feature will be removed in version 2.11.
Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.

changed: [192.168.119.130] => (item=[u'apache2', u'mysql-server', u'php-mysql', u'php', u'libapach
e2-mod-php', u'mcrypt', u'python-mysqldb'])

PLAY RECAP *****
192.168.119.130      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescue
d=0    ignored=0

pedro@pedro:~/wordpress-ansible$
pedro@pedro:~/wordpress-ansible$ nano roles/php/tasks/main.yml
pedro@pedro:~/wordpress-ansible$ nano roles/php/tasks/main.yml
pedro@pedro:~/wordpress-ansible$ ansible-playbook -i hosts playbook.yml
```

10 -

Depois de configurar o mysql e rodar o ansible

```
pedro@pedro: ~/wordpress-ansible

[DEPRECATION WARNING]: Invoking "apt" only once while using a loop via squash_actions is
deprecated. Instead of using a loop to supply multiple items and specifying 'name: "{{ item }}"',
please use 'name: ['apache2', 'mysql-server', 'php-mysql', 'php', 'libapache2-mod-php',
'mcrypt', 'python-mysqldb']' and remove the loop. This feature will be removed in version 2.11.
Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
ok: [192.168.119.130] => (item=[u'apache2', u'mysql-server', u'php-mysql', u'php', u'libapache2-mo
d-php', u'mcrypt', u'python-mysqldb'])

TASK [php : Instala as extensoes PHP necessarias] *****
[DEPRECATION WARNING]: Invoking "apt" only once while using a loop via squash_actions is
deprecated. Instead of using a loop to supply multiple items and specifying 'name: "{{ item }}"',
please use 'name: ['php-gd', 'php-ssh2']' and remove the loop. This feature will be removed in
version 2.11. Deprecation warnings can be disabled by setting deprecation_warnings=False in
ansible.cfg.
ok: [192.168.119.130] => (item=[u'php-gd', u'php-ssh2'])

TASK [mysql : Cria o banco de dados para o WordPress] *****
ok: [192.168.119.130]

TASK [mysql : Cria um usuario de banco para o WordPress] *****
[WARNING]: Module did not set no_log for update_password
ok: [192.168.119.130]

TASK [wordpress : Baixa o WordPress] *****
```

11 -

Depois configurar o wordpress e rodar o ansible

```
pedro@pedro: ~/wordpress-ansible

TASK [wordpress : Baixa o WordPress] *****
ok: [192.168.119.130]

TASK [wordpress : Descompacta o WordPress] *****
ok: [192.168.119.130]

TASK [wordpress : Atualiza o site Apache padrao] *****
ok: [192.168.119.130]

TASK [wordpress : Renomeia o arquivo de configuracao de exemplo] *****
ok: [192.168.119.130]

TASK [wordpress : Atualiza a configuracao WordPress] *****
changed: [192.168.119.130] => (item={u'regexp': u"'DB_NAME'", u'line': u"define('DB_NAME', 'wordpress');"})
changed: [192.168.119.130] => (item={u'regexp': u"'DB_USER'", u'line': u"define('DB_USER', 'wordpress');"})
changed: [192.168.119.130] => (item={u'regexp': u"'DB_PASSWORD'", u'line': u"define('DB_PASSWORD', 'wp_db_pass
word');"})

PLAY RECAP *****
192.168.119.130      : ok=11  changed=1  unreachable=0  failed=0  skipped=0  rescued=0  ignor
ed=0

pedro@pedro:~/wordpress-ansible$
```

12 - Site wordpress

