

```
10:admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ exitnano tasks/tasks.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 111 linhas lidas ] GNU nano 4.8 tasks/tasks.yml
^G Ajuda^O Gravar^W Procurar^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txt
^X Sair^R Carregar^_ Substituir ^U Colar txt ^T Ortografia ^ Ir p/ linha M-E RefazerM-6 Copiar txt
---- name: Atualiza o cache (equivalente a apt update)apt:update cache: truecache_valid time: 3600- name: "Atualiza o
sistema operativo"apt:upgrade: safe- name: "Instalar as dependencias necessaria ao programa leantime"apt:pkg:- mc-
screen- git- apache2- mysql-server- php- php-mysql- php-ldap- php-cli- php-soap- php-json- graphviz- php-xml- php-gd- php-
zip- libapache2-mod-php- php-dev- libmcrypt-dev- gcc- make- autoconf- libc-dev
[?12l[?25h[?25l - autoconf - libc-dev - pkg-config- pwgen- curl- unzip - zip - php-mbstring- expect- net-tools - python3-
mysqldb - python3-apt- python3-pycurl
# Fonte de inspiraÃo: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html- name:
"Instala o serviÃo apache2 no arranque do sistema"service:name: apache2state: startedenabled: true
# Fonte: https://www.mydailytutorials.com/using-ansible-find-module-search-filesfolder- name: "Rotina Auxiliar: Procura o
caminho do ficheiro php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurse: trueregister: caminho_php_ini
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "Ativa vÃrias
opÃÃes no ficheiro php.ini, utilizando o mÃdulo lineinfile."ansible.builtin.lineinfile:path: "{ {
caminho_php_ini.files[0].path } }"regex: "{ { item.regex } }"line: "{ { item.line } }"
[?12l[?25h[?25lregex: "{ { item.regex } }"line: "{ { item.line } }"with_items:regex: "^file_uploads" line: "file_uploads =
1"regex: "^upload_max_filesize" line: "upload_max_filesize = 1G"regex: "^max_file_uploads" line: "max_file_uploads =
20"regex: "^post_max_size" line: "post_max_size = 2G"regex: "^memory_limit" line: "memory_limit = 2G"- regex:
"^max_input_time" line: "max_input_time = 3600"
# Fonte: https://docs.ansible.com/ansible/2.7/modules/file_module.html- name: Cria a directoria temporÃria leantime e a
directoriar de apache leantimefile:path: "{ { item.path } }"state: directory mode: 0755 owner: www-data group: www-
datawith_items:- path: "/tmp/leantime"- path: "/var/www/leantime"
# Fonte: Ansible for DevOps - Server and configuration management for humans de Jeff Geerling, pÃgina 98
- name: "Cria a base de dados de mysql para o leantime" mysql_db: "db=leantime_database state=present"
- name: "Cria o utilizador para a base de dados leantime"mysql_user:namlogin_leantime } }"
[?12l[?25h[?25lmysql_user:namlogin_leantime } }"password: "{ { password_leantime } }"priv:
"leantime_database.*:ALL"host: localhoststate: present
"Faz o download do software leantime a partir do repositÃrio git"get_url:url:
https://github.com/Leantime/leantime/releases/download/{ { versao_leantime } }/Leantime-{ { versao_leantime } }.zipdest:
/tmp/leantime
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?
25l[?12l[?25h[?25l[?12l[?25h[?25lModificado
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[illegible]

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[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?
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25lr[?12l[?25h[?25lc[?12l[?25h[?25l[?12l[?25h[?25l [?12l[?25h[?25lt[?12l[?25h[?25lr[?12l[?25h[?25lu[?12l[?25h[?25le[?
12l[?25h[?25l
[?12l[?25h[?25l M-D Formato DOSM-A AnexarB SeguranÃ§aC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros
[?12l[?25h[?25l78
[?12l[?25h[?25l[?12l[?25h[?25lModificado
[?12l[?25h[?25l M-D Formato DOSM-A AnexarB SeguranÃ§aC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros
Nome do ficheiro onde escrever: tasks/tasks.yml [?12l[?25h[?25l [ A escrever... ] [ 133 linhas escritas ]^O Gravar^W
Procurar ^K Cortar txt ^J Justificar ^C Pos cursorU Desfazer M-A Marcar txtX Sair ^R Carregar^\\ Substituir ^U Colar txt
^T Ortografia ^ Ir p/ linha M-E Refazer M-6 Copiar txt
[?12l[?25h[?25l[?12l[?25h[?1049l
[?1l>[?2004l]0;admllocal@devOps: ~/leantime_ansibleadmllocal@devOps:~/leantime_ansible$ molecule lint
INFO default scenario test matrix: dependency, lint
INFO Performing prerun...
INFO Using .cache/roles/nunomourinho.leantime_ansible symlink to current repository in order to enable Ansible to find
the role using its expected full name.
INFO Added ANSIBLE_ROLES_PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles
INFO Running default > dependency
WARNING Skipping, missing the requirements file.
WARNING Skipping, missing the requirements file.
INFO Running default > lint
COMMAND: set -e
yamllint .
ansible-lint
```

```
Loading custom .yamllint config file, this extends our internal yamllint config.
]0;admllocal@devOps: ~/leantime_ansibleadmllocal@devOps:~/leantime_ansible$ molecule converge
INFO default scenario test matrix: dependency, create, prepare, converge
INFO Performing prerun...
INFO Using .cache/roles/nunomourinho.leantime_ansible symlink to current repository in order to enable Ansible to find
the role using its expected full name.
INFO Added ANSIBLE_ROLES_PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles
INFO Running default > dependency
WARNING Skipping, missing the requirements file.
WARNING Skipping, missing the requirements file.
INFO Running default > create
WARNING Skipping, instances already created.
INFO Running default > prepare
WARNING Skipping, instances already prepared.
INFO Running default > converge

PLAY [Converge]
*****

TASK [Gathering Facts]
*****
ok: [ubuntu-20.04]

TASK [Include leantime_ansible]
*****

TASK [leantime_ansible : Atualiza a cache (equivalente a apt update)]
*****
ok: [ubuntu-20.04]

TASK [leantime_ansible : Atualiza o sistema operativo]
*****
ok: [ubuntu-20.04]

TASK [leantime_ansible : Instalar as dependencias necessaria ao programa leantime]
*****
ok: [ubuntu-20.04]

TASK [leantime_ansible : Instala o serviÃ§o apache2 no arranque do sistema]
*****
ok: [ubuntu-20.04]
```

TASK [leantime_ ansible : Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Ativa várias opções no ficheiro php.ini, utilizando o módulo lineinfile.]

ok: [ubuntu-20.04] => (item={'regex': '^file_uploads', 'line': 'file_uploads = 1'})
ok: [ubuntu-20.04] => (item={'regex': '^upload_max_filesize', 'line': 'upload_max_filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_file_uploads', 'line': 'max_file_uploads = 20'})
ok: [ubuntu-20.04] => (item={'regex': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^memory_limit', 'line': 'memory_limit = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_input_time', 'line': 'max_input_time = 3600'})

TASK [leantime_ ansible : Cria a directoria temporária leantime e a directoria de apache leantime]

ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'})
ok: [ubuntu-20.04] => (item={'path': '/var/www/leantime'})

TASK [leantime_ ansible : Cria a base de dados de mysql para o leantime]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Cria o utilizador para a base de dados leantime]

[WARNING]: Module did not set no_log for update_password

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Faz o download do software leantime a partir do repositório git]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Descomprime o software leantime]

changed: [ubuntu-20.04]

TASK [leantime_ ansible : Copia o ficheiro de configuração configuration.sample.php]

changed: [ubuntu-20.04]

PLAY RECAP

ubuntu-20.04 : ok=13 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible\$ molecule idempotence

INFO default scenario test matrix: idempotence

INFO Performing prerun...

INFO Using .cache/roles/nunomourinho.leantime_ansible symlink to current repository in order to enable Ansible to find the role using its expected full name.

INFO Added ANSIBLE_ROLES_PATH=~/ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./cache/roles

INFO Running default > idempotence

PLAY [Converge]

TASK [Gathering Facts]

ok: [ubuntu-20.04]

TASK [Include leantime_ ansible]

TASK [leantime_ ansible : Atualiza a cache (equivalente a apt update)]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Atualiza o sistema operativo]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Instalar as dependencias necessária ao programa leantime]

ok: [ubuntu-20.04]

TASK [leantime_ ansible : Instala o serviço apache2 no arranque do sistema]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Ativa várias opções no ficheiro php.ini, utilizando o módulo lineinfile.]

ok: [ubuntu-20.04] => (item={'regex': '^file_uploads', 'line': 'file_uploads = 1'})
ok: [ubuntu-20.04] => (item={'regex': '^upload_max_filesize', 'line': 'upload_max_filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_file_uploads', 'line': 'max_file_uploads = 20'})
ok: [ubuntu-20.04] => (item={'regex': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^memory_limit', 'line': 'memory_limit = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_input_time', 'line': 'max_input_time = 3600'})

TASK [leantime_ansible : Cria a directoria temporária leantime e a directoria de apache leantime]

ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'})
ok: [ubuntu-20.04] => (item={'path': '/var/www/leantime'})

TASK [leantime_ansible : Cria a base de dados de mysql para o leantime]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Cria o utilizador para a base de dados leantime]

[WARNING]: Module did not set no_log for update_password

ok: [ubuntu-20.04]

TASK [leantime_ansible : Faz o download do software leantime a partir do repositório git]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Descomprime o software leantime]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Copia o ficheiro de configuração configuration.sample.php]

ok: [ubuntu-20.04]

PLAY RECAP

ubuntu-20.04 : ok=13 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

INFO Idempotence completed successfully.

l0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible\$ molecule verify

INFO default scenario test matrix: verify

INFO Performing prerun...

INFO Using .cache/roles/numomourinho.leantime_ansible symlink to current repository in order to enable Ansible to find the role using its expected full name.

INFO Added ANSIBLE_ROLES_PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles

INFO Running default > verify

INFO Running Ansible Verifier

PLAY [Infraestrutura conduzida por testes]

TASK [Variáveis]

ok: [ubuntu-20.04]

TASK [Simulação: Atualizar a cache do sistema]

ok: [ubuntu-20.04]

TASK [teste: a cache encontra-se atualizada?]

ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache está atualizada"
}

TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]

ok: [ubuntu-20.04]

TASK [teste: o sistema operativo encontra-se atualizado?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ¡ atualizado"
}
```

TASK [Teste: a cache encontra-se atualizada?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache estÃ¡ atualizada"
}
```

TASK [SimulaÃ§Ã£o: testa se as aplicaÃ§Ães dependencia do software leantime se encontram instaladas]

```
ok: [ubuntu-20.04]
```

TASK [Teste: as dependencias encontra-se instaladas?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
}
```

TASK [SimulaÃ§Ã£o: Testar se o serviÃ§o apache2 se encontra instalado, iniciado e ativo no arranque]

```
ok: [ubuntu-20.04]
```

TASK [Teste: O serviÃ§o apache2 encontra-se ativo no arranque no sistema, e estÃ¡ iniciado?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O serviÃ§o apache2 estÃ¡ correctamente instalado e inicia com o arranque do sistema"
}
```

TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]

```
ok: [ubuntu-20.04]
```

TASK [SimulaÃ§Ã£o: Ativa a opÃ§Ã£o file_uploads no ficheiro php.ini, utilizando o mÃ³dulo lineinfile.]

```
ok: [ubuntu-20.04] => (item={'regex': '^file_uploads', 'line': 'file_uploads = 1'})
ok: [ubuntu-20.04] => (item={'regex': '^upload_max_filesize', 'line': 'upload_max_filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_file_uploads', 'line': 'max_file_uploads = 20'})
ok: [ubuntu-20.04] => (item={'regex': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^memory_limit', 'line': 'memory_limit = 2G'})
ok: [ubuntu-20.04] => (item={'regex': '^max_input_time', 'line': 'max_input_time = 3600'})
```

TASK [Teste: As linhas do php.ini encontram-se alteradas ?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
}
```

TASK [SimulaÃ§Ã£o: Obtem informaÃ§Ã£o sobre a pastas /var/www/leantime]

```
ok: [ubuntu-20.04]
```

TASK [Teste: A pasta /var/www/leantime existe e tem as permissÃes certas?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: PermissÃes correctas no site leantime"
}
```

TASK [SimulaÃ§Ã£o: Verifica se Ã© necessÃ¡rio criar a base de dados leantime_database]

```
ok: [ubuntu-20.04]
```

TASK [Teste: A base de dados leantime_database existe ?]

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A base de dados leantime_database jÃ¡ se encontra criada"
}
```

TASK [Simulação e Teste: Verifica se o endereço git para a versão de leantime existe]

ok: [ubuntu-20.04]

TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]

ok: [ubuntu-20.04]

TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]

ok: [ubuntu-20.04] => {

"changed": false,

"msg": "SUCESSO: Permissões correctas e ficheiro configuration.php existente"

}

PLAY RECAP

ubuntu-20.04 : ok=20 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

INFO Verifier completed successfully.

]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible\$ exit

exit