

```
j0:admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ nano molecule/verifdefault/verify.yml
[?2004h[?1049h[?7h[?1h=[?25l[ A ler... ] 264 linhas lidas ] GNU nano 4.8 molecule/default/verify.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
```

Tutorial de inspira  o para a infraestrutura conduzida por teste no site

```
# https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/
- name: "Infraestrutura conduzida por testes"hosts: allgather_facts: falsebecome: truetasks:- name:
Vari  veisinclude_vars:file: ../vars/main.yml- name: "Simula  o: Atualizar a cache do sistema"apt:update_cache:
truecache_valid_time: 3600check_mode: trueregister: estado- name: "teste: a cache encontra-se atualizada?"assert:that:-
not estado.changedsuccess_msg: "SUCESSO: A cache est   atualizada"fail_msg: "ERRO: Existem atualiza  es
pendentes"- name: "Atualizar o sistema operativo (equivalente a apt upgrade)"apt:upgrade: safecheck_mode: trueregister:
estado- name: "teste: o sistema operativo encontra-se atualizado?"
[?12l[?25h[?25l- name: "teste: o sistema operativo encontra-se atualizado?"
assert:that: - not estado.changed success_msg: "SUCESSO: O sistema operativo est   atualizado" fail_msg: "ERRO:
Existem atualiza  es pendentes"
- name: "Teste: a cache encontra-se atualizada?" assert: that: - not estado.changedsuccess_msg: "SUCESSO: A cache est  
atualizada"fail_msg: "ERRO: Existem atualiza  es pendentes"
- name: "Simula  o: testa se as aplica  es dependencia do software leantime se encontram instaladas"apt:pkg: - mc -
screen- git - apache2 - mysql-server- phpphp-mysql- php-ldap- php-cli- php-soap - php-json - graphviz- php-xml - php-gd -
php-zip- libapache2-mod-php - php-dev
[?12l[?25h[?25l- libapache2-mod-php - php-dev - libmcrypt-dev- gccmake- autoconf- libc-dev- pkg-config - pwgen - curl-
unzipzip- php-mbstring- expect- net-tools - python3-mysqldb - python3-apt- python3-pycurlcheck_mode: trueregister: estado
- name: "Teste: as dependencias encontra-se instaladas?"assert:that:~not estado.changedsuccess_msg: "SUCESSO: As
dependencias estavam instaladas"fail_msg: "ERRO: Faltam instalar algumas dependencias. O software pode estar
parcialmente instalado"
```

```
# Fonte de inspira  o: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html- name:
"Simula  o: Testar se o servi  o apache2 se encontra instalado, iniciado e ativo no arranque"service:name:
apache2state: startedenabled: truecheck_mode: true
[?12l[?25h[?25lenabled: trueO servi  o apache2 encontra-se ativo no arranque no sistema, e est   iniciado?"O servi  o
apache2 est   correctamente instalado e inicia com o arranque do sistema"O servi  o apache2 n  o se encontra correcta:
https://www.mydailytutorials.com/using-find-module-search-filesfolderRotina Auxiliar> Procura o caminho do ficheiro
php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurserregister: caminho_php_ini
```

```
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "Simula  o:
Ativa a op  o file uploads no ficheiro php.ini, utilizando o m  dulo lineinfile."ansible.builtin.lineinfile:path: "{ {
caminho_php_ini.files[0].path } }"regex: "{ { 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"
```

```
[?12l[?25h[?25l78line: "post_max_size = 2G"- regex: "^memory_limit"line: "memory_limit = 2G"- regex:
"^max_input_time" line: "max_input_time = 3600"As linhas do php.ini encontram-se alteradas ?"ficheiro php.ini foi
alterado com sucesso"Algumas altera  es ao ficheiro php.ini n  o tiveram sucesso"O site deve existir na pasta
/var/www/leantime. Este teste visa determinar se a pasta
```

```
# existe e se temas permiss  es certas
# Fonte de inspira  o: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat_module.html- name:
"Simula  o: Obtem informa  o sobre a pastas /var/www/leantime"
stat: path: "/var/www/leantime"register: pasta
- name: "Teste: A pasta /var/www/leantime existe e tem as permiss  es certas?"assert: that: - pasta.stat.exists-
pasta.stat.isdir - pasta.stat.mode == "0755"- pasta.stat.pw_name == "www-data" - pasta.stat.gr_name == "www-
data"success_msg: "SUCESSO: Permiss  es correctas no site leantime"fail_msg: "ERRO: Permiss  es incorrectas no site
leantime ou site n  o existente"
```

Outro dos requisitos    a exist  ncia de uma base de dados para o site.

```
[?12l[?25h[?25l # Outro dos requisitos    a exist  ncia de uma base de dados para o site.
```

Esta base de dados deve ser criada, logo tem de ser testada para determinar se ela existe ou n  o.

```
# Fonte de inspira  o: https://serverfault.com/questions/173978/from-a-shell-script-how-can-i-check-whether-a-mysql-
database-exists- name: "Simula  o: Verifica se    necess  rio criar a base de dados leantime_database"shell: "mysql -u
root -e 'use leantime_database'"resultfailed_when: false changed_when: false
```

```
- name: "Teste: A base de dados leantime_database existe ?"assert:that:- result.rc == 0success_msg: "SUCESSO: A base de
dados leantime_database j   se encontra criada"fail_msg: "ERRO: N  o existe a base de dados leantime_database"
```

```
# Teste: O download do software leantime deve ser poss  vel, a partir do site do leantime- name: "Simula  o e Teste:
Verifica se o endere  o git para a vers  o de leantime existe"uri:url:
```

```
https://github.com/Leantime/leantime/releases/download/{ { versao_leantime } }/Leantime-{ { versao_leantime
} }.zipregister: resultadoTeste: Do ficheiro configuration.php no site do leantime. A exist  ncia deste ficheiro com as
permiss  es certas indica que o processo de unzip correu bemDocumenta  o oficial em:
```

```
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat_module.htmlO ficheiro
```

```
/var/www/leantime/config/configuration.php"/config/configuration.php"ficheiroO ficheiro
```

```
/var/www/leantime/config/configuration.php existe e tem as permiss  es certas?"ficheiro.stat.exists
```

```
[?12l[?25h[?25lthat: - ficheiro.stat.exists - ficheiro.stat.isreg - ficheiro.stat.mode == "0755" - ficheiro.stat.pw_name ==
"www-data" - ficheiro.stat.gr_name == "www-data" success_msg: "SUCESSO: Permiss  es correctas e ficheiro
configuration.php existente" fail_msg: "ERRO: Permiss  es incorrectas ou ficheiro configuration.php n  o existente"
```

Teste: O ficheiro /var/www/leantime/config/configuration.php necessita de ser alterado.

As vari  veis dbuser, dbDatabase, e dbPassword necessitam de estar configuradas.

Por simula  o o sistema vai determinar se estas est  o configuradas com o valor esperado.

```
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace_module.html- name: "Simula  o:
Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o m  dulo replace."ansible.builtin.replace:path:
```

```

/var/www/leantime/config/configuration.phppregexp: 'dbUser=""' replace: 'dbUser="{ { login_leantime }}"' check_mode:
yesregister: conffailed_when: false
- name: "Teste: O dbUser foi alterado?"
assert: that: - conf is not changed - conf is not failed success_msg: "SUCESSO: O dbUser foi alterado no ficheiro
configuration.php" fail_msg: "ERRO: O dbUser não foi alterado no ficheiro configuration.php"
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace_module.html- name: "SimulaÃsÃo:
Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o mÃdulo replace."ansible.builtin.replace:path:
/var/www/leantime/config/configuration.php
[?]2[?]25h[?]25l ansible.builtin.replace:path: /var/www/leantime/config/configuration.phppregexp: 'dbDatabase=""'replace:
'dbDatabase="leantime_database"'check_mode: yesregister: conffailed_when: false
- name: "Teste: a variÃvel dbDatabase foi alterada?"
assert: that: - conf is not changed - conf is not failed success_msg: "SUCESSO: O dbDatabase foi alterado no ficheiro
configuration.php" fail_msg: "ERRO: O dbDatabase não foi alterado no ficheiro configuration.php"
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace_module.html- name: "SimulaÃsÃo:
Testa se o dbPassword foi alterado no ficheiro configuration.php utilizando o mÃdulo replace."ansible.builtin.replace:
path: /var/www/leantime/config/configuration.php regexp: 'dbPassword=""'replace: 'dbPassword="{ { password_leantime
}}"' check_mode: yesregister: conffailed_when: false
name: "Teste: O dbPassword foi alterado?"assert:that:- conf is not changed- conf is not failed success_msg: "SUCESSO: O
dbPassword foi alterado no ficheiro configuration.php" fail_msg: "ERRO: O dbPassword não foi alterado no ficheiro
configuration.php"
[?]2[?]25h[?]25l[?]2l[?]25h[?]25l[?]2l[?]25h[?]25l[?]2l[?]25h[?]25l[?]2l[?]25h[?]25lfail_msg: "ERRO: O dbPassword não foi
alterado no ficheiro configuration.php"
[?]2[?]25h[?]25l78Msuccess_msg: "SUCESSO: O dbPassword foi alterado no ficheiro configuration.php"
[?]2[?]25h[?]25l78M- conf is not failed
[?]2[?]25h[?]25l[?]2l[?]25h[?]25l[?]2l[?]25h[?]25l[?]2l[?]25h[?]25lModificado
[?]2[?]25h[?]25l [?]2[?]25h[?]25l [?]2[?]25h[?]25l
#[?]2[?]25h[?]25l [?]2[?]25h[?]25lA[?]2[?]25h[?]25l [?]2[?]25h[?]25lc
[?]2[?]25h[?]25lo[?]2[?]25h[?]25ln[?]2[?]25h[?]25lf[?]2[?]25h[?]25li[?]2[?]25h[?]25lg[?]2[?]25h[?]25lu[?]2[?]25h[?]25lr[?]2[?]
25h[?]25la[?]2[?]25h[?]25lÃs[?]2[?]25h[?]25lÃf[?]2[?]25h[?]25lo[?]2[?]25h[?]25l [?]2[?]25h[?]25ld[?]2[?]25h[?]25lo[?]2[?]
25h[?]25l [?]2[?]25h[?]25ls[?]2[?]25h[?]25li[?]2[?]25h[?]25lt[?]2[?]25h[?]25le[?]2[?]25h[?]25l [?]2[?]25h[?]25li[?]2[?]25h[?]
25le[?]2[?]25h[?]25la[?]2[?]25h[?]25ln[?]2[?]25h[?]25lt[?]2[?]25h[?]25li[?]2[?]25h[?]25lm[?]2[?]25h[?]25le[?]2[?]25h[?]25l [?]
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25h[?]25lt[?]2[?]25h[?]25la[?]2[?]25h[?]25l [?]2[?]25h[?]25lq[?]2[?]25h[?]25lu[?]2[?]25h[?]25le[?]2[?]25h[?]25l [?]2[?]25h[?]
25ls[?]2[?]25h[?]25le[?]2[?]25h[?]25lj[?]2[?]25h[?]25la[?]2[?]25h[?]25l [?]2[?]25h[?]25lc[?]2[?]25h[?]25li[?]2[?]25h[?]25li[?]
2[?]25h[?]25la[?]2[?]25h[?]25ld[?]2[?]25h[?]25lo[?]2[?]25h[?]25l [?]2[?]25h[?]25lu[?]2[?]25h[?]25lm[?]2[?]25h[?]25l [?]2[?]
25h[?]25ls[?]2[?]25h[?]25li[?]2[?]25h[?]25lt[?]2[?]25h[?]25le[?]2[?]25h[?]25l [?]2[?]25h[?]25la[?]2[?]25h[?]25lt[?]2[?]25h[?]
25lr[?]2[?]25h[?]25la[?]2[?]25h[?]25lv[?]2[?]25h[?]25lÃ©[?]2[?]25h[?]25l~s[?]2[?]25h[?]25l [?]2[?]25h[?]25ld[?]2[?]25h[?]
25le[?]2[?]25h[?]25l [?]2[?]25h[?]25lu[?]2[?]25h[?]25lm[?]2[?]25h[?]25l [?]2[?]25h[?]25lf[?]2[?]25h[?]25li[?]2[?]25h[?]25lc[?]
2[?]25h[?]25lh[?]2[?]25h[?]25le[?]2[?]25h[?]25li[?]2[?]25h[?]25lr[?]2[?]25h[?]25lo[?]2[?]25h[?]25l [?]2[?]25h[?]25ld[?]2[?]
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25h[?]25la[?]2[?]25h[?]25lc[?]2[?]25h[?]25lh[?]2[?]25h[?]25le[?]2[?]25h[?]25l2[?]2[?]25h[?]25l.[?]2[?]25h[?]25l [?]2[?]25h[?]
25lD[?]2[?]25h[?]25le[?]2[?]25h[?]25lv[?]2[?]25h[?]25le[?]2[?]25h[?]25l [?]2[?]25h[?]25le[?]2[?]25h[?]25lx[?]2[?]25h[?]25li[?]
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25l&[?]2[?]25h[?]25le[?]2[?]25h[?]25lt[?]2[?]25h[?]25lc[?]2[?]25h[?]25l/[?]2[?]25h[?]25la[?]2[?]25h[?]25lp[?]2[?]25h[?]25la[?]
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25h[?]25lt[?]2[?]25h[?]25le[?]2[?]25h[?]25ls[?]2[?]25h[?]25l [?]2[?]25h[?]25le[?]2[?]25h[?]25lc[?]2[?]25h[?]25la[?]2[?]25h[?]
25li[?]2[?]25h[?]25li[?]2[?]25h[?]25la[?]2[?]25h[?]25lb[?]2[?]25h[?]25li[?]2[?]25h[?]25le[?]2[?]25h[?]25l
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25l[?]2[?]25h[?]25l[?]2[?]25h[?]25l[?]2[?]25h[?]25l[?]2[?]25h[?]25l/etc/apache2/sites-available[?]2[?]25h[?]
25l[?]2[?]25h[?]25l[?]2[?]25h[?]25li[?]2[?]25h[?]25le[?]2[?]25h[?]25l.[?]2[?]25h[?]25lc[?]2[?]25h[?]25lo[?]2[?]25h[?]25lm[?]
2[?]25h[?]25l/[?]2[?]25h[?]25la[?]
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[illegible]

```
25lÅµ[?12l[?25h[?25le[?12l[?25h[?25ls[?12l[?25h[?25l [?12l[?25h[?25lc[?12l[?25h[?25lo[?12l[?25h[?25lr[?12l[?25h[?25lr[?12l[?25h[?25le[?12l[?25h[?25lc[?12l[?25h[?25lt[?12l[?25h[?25la[?12l[?25h[?25ls[?12l[?25h[?25l"[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25lf[?12l[?25h[?25la[?12l[?25h[?25li[?12l[?25h[?25ll[?12l[?25h[?25l [?12l[?25h[?25lm[?12l[?25h[?25ls[?12l[?25h[?25lg[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25l"[?12l[?25h[?25lE[?12l[?25h[?25lR[?12l[?25h[?25lO[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25lP[?12l[?25h[?25le[?12l[?25h[?25lr[?12l[?25h[?25lm[?12l[?25h[?25li[?12l[?25h[?25ls[?12l[?25h[?25ls[?12l[?25h[?25lÅµ[?12l[?25h[?25le[?12l[?25h[?25ls[?12l[?25h[?25l [?12l[?25h[?25li[?12l[?25h[?25ln[?12l[?25h[?25lc[?12l[?25h[?25lo[?12l[?25h[?25lr[?12l[?25h[?25lr[?12l[?25h[?25le[?12l[?25h[?25lc[?12l[?25h[?25lt[?12l[?25h[?25la[?12l[?25h[?25ls[?12l[?25h[?25l"[?12l[?25h[?25l [?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: molecule/default/verify.yml [?12l[?25h[?25l [ A escrever... ] [ 284 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[?25l[?12l[?25h[?25l[?12l[?25h[?1049l [?1l>[?2004l]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ ls asciinema defaults files handlers html latex meta molecule README.md tasks templates tests vars ]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ molecule Usage: molecule [OPTIONS] COMMAND [ARGS]...
```

Molecule aids in the development and testing of Ansible roles.

Enable autocomplete issue:

```
eval "$(_MOLECULE_COMPLETE=source molecule)"
```

Options:

- debug / --no-debug** Enable or disable debug mode. Default is disabled.
- v, --verbose** Increase Ansible verbosity level. Default is 0.
- c, --base-config TEXT** Path to a base config (can be specified multiple times). If provided, Molecule will first load and deep merge the configurations in the specified order, and deep merge each scenario's molecule.yml on top. By default Molecule is looking for '.config/molecule/config.yml' in current VCS repository and if not found it will look in user home. (None).
- e, --env-file TEXT** The file to read variables from when rendering molecule.yml. (.env.yml)
- version**
- help** Show this message and exit.

Commands:

- check** Use the provisioner to perform a Dry-Run (destroy, dependency, create, prepare, converge).
- cleanup** Use the provisioner to cleanup any changes made to external systems during the stages of testing.
- converge** Use the provisioner to configure instances (dependency, create, prepare converge).
- create** Use the provisioner to start the instances.
- dependency** Manage the role's dependencies.
- destroy** Use the provisioner to destroy the instances.
- drivers** List drivers.
- idempotence** Use the provisioner to configure the instances and parse the output to determine idempotence.
- init** Initialize a new role or scenario.
- lint** Lint the role (dependency, lint).
- list** List status of instances.
- login** Log in to one instance.
- matrix** List matrix of steps used to test instances.
- prepare** Use the provisioner to prepare the instances into a particular starting state.
- reset** Reset molecule temporary folders.
- side-effect** Use the provisioner to perform side-effects to the instances.
- syntax** Use the provisioner to syntax check the role.
- test** Test (dependency, lint, cleanup, destroy, syntax, create, prepare, converge, idempotence, side_effect, verify, cleanup,...
- verify** Run automated tests against instances.

```
]0;admlcal@devOps: ~/leantime_ansibleadmlcal@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;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ molecule verify
```

INFO default scenario test matrix: verify

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 > verify
INFO Running Ansible Verifier

PLAY [Infraestrutura conduzida por testes]

TASK [Variáveis]

ok: [ubuntu-20.04]

TASK [Simulação: Atualizar a cache do sistema]

changed: [ubuntu-20.04]

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

fatal: [ubuntu-20.04]: FAILED! => {
 "assertion": "not estado.changed",
 "changed": false,
 "evaluated_to": false,
 "msg": "ERRO: Existem atualizações pendentes"
}

PLAY RECAP

ubuntu-20.04 : ok=2 changed=1 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0

CRITICAL Ansible return code was 2, command was: ansible-playbook --inventory /home/admlocal/.cache/molecule/leantime_ansible/default/inventory --skip-tags molecule-notest,notest /home/admlocal/leantime_ansible/molecule/default/verify.yml
[0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible\$ molecule verifyconverge
INFO default scenario test matrix: dependency, create, prepare, converge
INFO Performing prerin...
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]

changed: [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 vÃ¡rias opÃ§ÃÃ¶es 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 [leantime_ansible : Cria a directoria temporÃ¡ria 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 repositÃ³rio git]
*****
```

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

```
TASK [leantime_ansible : Descomprime o software leantime]
*****
```

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

```
TASK [leantime_ansible : Copia o ficheiro de configuraÃ§Ã£o configuration.sample.php]
*****
```

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

```
TASK [leantime_ansible : Altera as variÃ¡veis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
mÃ³dulo replace.] ***
```

```
ok: [ubuntu-20.04] => (item={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBAdmin"})
ok: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime_database"})
ok: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"})
```

```
PLAY RECAP
```

```
*****
ubuntu-20.04 : ok=14 changed=1 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 necessÃ¡ria ao programa leantime]
```

```
*****
```

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

TASK [leantime_ansible : Instala o servi  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 v  rias op   es no ficheiro php.ini, utilizando o m  dulo 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 tempor  ria 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 reposit  rio git]

ok: [ubuntu-20.04]

TASK [leantime_ansible : Descomprime o software leantime]

ok: [ubuntu-20.04]

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

ok: [ubuntu-20.04]

TASK [leantime_ansible : Altera as vari  veis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o m  dulo replace.] ***
ok: [ubuntu-20.04] => (item={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBAdmin"})
ok: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime_database"})
ok: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"})

PLAY RECAP

ubuntu-20.04 : ok=14 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

INFO Idempotence completed successfully.
j0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible\$ molecule idempotenceverify
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 [Vari  veis]

ok: [ubuntu-20.04]

TASK [Simula  o: Atualizar a cache do sistema]

ok: [ubuntu-20.04]

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

```
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache est  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 est  atualizado"
}
```

```
TASK [Teste: a cache encontra-se atualizada?]
*****
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache est  atualizada"
}
```

```
TASK [Simula o: testa se as aplica es 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 [Simula o: Testar se o servi o apache2 se encontra instalado, iniciado e ativo no arranque]
*****
ok: [ubuntu-20.04]
```

```
TASK [Teste: O servi o apache2 encontra-se ativo no arranque no sistema, e est  iniciado?]
*****
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O servi o apache2 est  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 [Simula o: Ativa a op o file_uploads no ficheiro php.ini, utilizando o m dulo 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 [Simula o: Obtem informa o sobre a pastas /var/www/leantime]
*****
ok: [ubuntu-20.04]
```

```
TASK [Teste: A pasta /var/www/leantime existe e tem as permiss es certas?]
*****
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: Permiss es correctas no site leantime"
}
```

```
TASK [Simula o: Verifica se   necess 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 j  se encontra criada"
}

TASK [Simula  o e Teste: Verifica se o endere o git para a vers o de leantime existe]

ok: [ubuntu-20.04]

TASK [Simula  o: Obtem informa  o 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 permiss es certas?]

ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: Permiss es correctas e ficheiro configuration.php existente"
}

TASK [Simula  o: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o m dulo replace.]

ok: [ubuntu-20.04]

TASK [Teste: O dbUser foi alterado?]

ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
}

TASK [Simula  o: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o m dulo replace.]

ok: [ubuntu-20.04]

TASK [Teste: a vari vel dbDatabase foi alterada?]

ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O dbDatabase foi alterado no ficheiro configuration.php"
}

TASK [Simula  o: Testa se o dbPassword foi alterado no ficheiro configuration.php utilizando o m dulo replace.]

ok: [ubuntu-20.04]

TASK [Teste: O dbPassword foi alterado?]

ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O dbPassword foi alterado no ficheiro configuration.php"
}

TASK [Simula  o: Obtem informa  o sobre o ficheiro /etc/apache2/sites-available/leantime.conf]

ok: [ubuntu-20.04]

TASK [Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem as permiss es certas?]

fatal: [ubuntu-20.04]: FAILED! => {
"assertion": "ficheiro.stat.exists",
"changed": false,
"evaluated to": false,
"msg": "ERRO: Permiss es incorrectas"
}

PLAY RECAP

ubuntu-20.04 : ok=27 changed=0 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0

CRITICAL Ansible return code was 2, command was: ansible-playbook --inventory

```
/home/admlcal/.cache/molecule/leantime_ansible/default/inventory --skip-tags molecule-notest,notest
/home/admlcal/leantime_ansible/molecule/default/verify.yml
]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ exiy
```

O comando 'exi' não foi encontrado, mas existem 13 semelhantes.

```
]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ exit
exit
```