```
|0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano atsatstasks/tasks.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler...]
[ 133 linhas lidas ]
GNU nano 4.8 tasks/tasks.yml
Ajuda^O
Gravar^W
Procurar^K
Cortar txt ^
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 a cache (equivalente a apt update)apt:update cache: truecache valid time: 3600- name: "Atualiza o
sistema operativo"apt:upgrade: safe- name: "Instalar as dependencias necessĂ¡ria 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 inspiração: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service module.html
- name: "Instala o servi§o apache2 no arranque do sistema" service: name: apache2 state: 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 vÃ;rias opções no ficheiro php.ini, utilizando o módulo lineinfile."ansible.builtin.lineinfile:path: "{{
caminho_php_ini.files[0].path }}"regexp: "{{ item.regexp }}"line: "{{ item.line }}" [?12l[?25h[?25lregexp: "{{ item.regexp }}"line: "{{ item.line }}"with_items:regexp: "^file_uploads" line: "file_uploads =
1"regexp: "^upload max filesize" line: "upload max filesize = 1G"regexp: "^max file uploads" line: "max file uploads =
20"regexp: "^post max size" line: "post max size = 2G"regexp: "^memory_limit" line: "memory_limit = 2G"- regexp:
"^max input time" line: "max input time = 3600"
# Fonte: https://docs.ansible.com/ansible/2.7/modules/file module.html
- name: Cria a directoria tempor\(\tilde{A}\);ria leantime e a directoria 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, pÃjqina 98
- name: "Cria a base de dados de mysgl para o leantime" mysgl 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
- name: "Faz o download do software leantime a partir do repositÃ3rio git"get url:url:
https://github.com/Leantime/releases/download/{{ versao_leantime }}/Leantime-{{ versao_leantime }}.zipdest:
/tmp/leantimemode: 0755
# O ficheiro Leantime-versao.zip necessita de ser descomprimido
- name: Descomprime o software leantimeunarchive: src: "/tmp/leantime/Leantime-{{ versao leantime }}.zip" dest:
"/var/www/leantime" owner: www-datagroup: www-datamode: 0755remote_src: true
# ApÃ<sup>3</sup>s a descompressão, se o ficheiro configuration.php não existir, este necessita de ser
# criado a partir do ficheiro configuration.sample.php
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/copy module.html
- name: Copia o ficheiro de configuração configuration.sample.phpansible.builtin.copy: src:
/var/www/leantime/config/configuration.sample.php dest: /var/www/leantime/config/configuration.php owner: www-
datagroup: www-data mode: '0755' remote src: true
[?12l[?25h[?25l remote src: true
25l[?12l[?25h[?25l[?12l[?25h[?25lModificado
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Cortar txt ^]

Justificar 🖰 С

Pos cursorU

Desfazer M-A

Marcar txtX

Sair ^R

Carregar^\

Substituir ^U

Colar txt ^T

Ortografia 1

Ir p/ linha M-E

Refazer M-6

Copiar txt

[?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[?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[?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[?25l]?12l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?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]]]]]] 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]]]]]] 25l[?12l[?25h[?25lModificado

[?12l[?25h[?25l M-D

Formato DOSM-A

AnexarB

SegurançaC

Cancelar M-M

Formato MacM-P

Prepor^T

P/ ficheiros

Nome do ficheiro onde escrever: tasks/tasks.yml

[?12l[?25h[?25l [A escrever...]

[147 linhas escritas]

^0

Gravar^W

Procurar ^K

Cortar txt ^]

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

[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@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/ :/usr/share/ansible/ :/etc/ansible/ :./.cache/ **INFO** Running default dependency **WARNING** Skipping, missing the requirements file. **WARNING** Skipping, missing the requirements file. **INFO** Running default lint COMMAND: set -e vamllint. ansible-lint Loading custom .yamllint config file, this extends our internal yamllint config.]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ molecule verifyconverge **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 $=\sim$ /.ansible/ :/usr/share/ansible/ :/etc/ansible/ :./.cache/ **INFO** Running default

WARNING

dependency

WARNING

WARNING

INFO Running default

create

Skipping, missing the requirements file.

Skipping, missing the requirements file.

```
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 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 vÃ; rias opções no ficheiro php.ini, utilizando o módulo lineinfile.]
ok: [ubuntu-20.04] => (item={'regexp': '^file uploads', 'line': 'file uploads = 1'})
ok: [ubuntu-20.04] => (item={'regexp': '^upload max filesize', 'line': 'upload max filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max file uploads', 'line': 'max file uploads = 20'})
ok: [ubuntu-20.04] => (item={'regexp': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^memory limit', 'line': 'memory limit = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max input time', 'line': 'max input time = 3600'})
TASK [leantime ansible : Cria a directoria tempor\( \tilde{A} \) 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 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]
TASK [leantime ansible: Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
módulo replace.] ***
changed: [ubuntu-20.04] => (item={'regexp': 'dbUser=""', 'line': 'dbUser="leantimeDBadmin"'})
changed: [ubuntu-20.04] => (item={'reqexp': 'dbDatabase=""', 'line': 'dbDatabase="leantime database"'})
changed: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line': 'dbPassword="#$3gr3d0$3cr3t0#"'})
PLAY RECAP
ubuntu-20.04
: ok=14
changed=1
unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule convergeidempotence
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
=\sim/.ansible/
:/usr/share/ansible/
:/etc/ansible/
:./.cache/
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 arrangue do sistema]
ok: [ubuntu-20.04]
TASK [leantime ansible: Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]
      -
k***********
ok: [ubuntu-20.04]
TASK [leantime ansible: Ativa vÃ; rias opções no ficheiro php.ini, utilizando o módulo lineinfile.]
*************
ok: [ubuntu-20.04] => (item={'regexp': '^file uploads', 'line': 'file uploads = 1'})
ok: [ubuntu-20.04] => (item={'reqexp': '^upload max filesize', 'line': 'upload max filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max file uploads', 'line': 'max file uploads = 20'})
ok: [ubuntu-20.04] => (item={'regexp': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^memory limit', 'line': 'memory limit = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max_input_time', 'line': 'max_input_time = 3600'})
TASK [leantime ansible : Cria a directoria temporĂ;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 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]
changed: [ubuntu-20.04]
```

TASK [leantime_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o

```
módulo replace.] ***
changed: [ubuntu-20.04] => (item={'regexp': 'dbUser=""', 'line': 'dbUser="leantimeDBadmin"'})
changed: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""', 'line': 'dbDatabase="leantime database"'})
changed: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line': 'dbPassword="#$3gr3d0$3cr3t0#"'})
PLAY RECAP
ubuntu-20.04
: ok = 14
changed=2
unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
CRITICAL
Idempotence test failed because of the following tasks:
* => leantime ansible: Copia o ficheiro de configuração configuration.sample.php
* => leantime ansible : Altera as variÃ; veis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
mÃ3dulo replace.
* => leantime ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
módulo replace.
* => leantime ansible : Altera as variÃ; veis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
mÅ<sup>3</sup>dulo replace.
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ 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/
:/usr/share/ansible/
:/etc/ansible/
:./.cache/
roles
INFO
Running
default
verify
INFO
Running Ansible Verifier
PLAY [Infraestrutura conduzida por testes]
TASK [VariA; veis]
                 ok: [ubuntu-20.04]
TASK [Simulação: 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 estÃ; 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 [Simulação: testa se as aplicações 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 [Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque]
  **********************************
ok: [ubuntu-20.04]
TASK [Teste: O serviço apache2 encontra-se ativo no arranque no sistema, e está iniciado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O serviço 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 [Simulação: Ativa a opção file uploads no ficheiro php.ini, utilizando o módulo lineinfile.]
ok: [ubuntu-20.04] => (item={'regexp': '^file uploads', 'line': 'file uploads = 1'})
ok: [ubuntu-20.04] => (item={'regexp': '^upload max filesize', 'line': 'upload max filesize = 1G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max file uploads', 'line': 'max file uploads = 20'})
ok: [ubuntu-20.04] => (item={'regexp': '^post max size', 'line': 'post max size = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^memory_limit', 'line': 'memory_limit = 2G'})
```

```
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 [Simulação: Obtem informação sobre a pastas /var/www/leantime]
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é 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,
"msq": "SUCESSO: Permissões correctas e ficheiro configuration.php existente"
}
TASK [Simulação: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbUser foi alterado?]
                               ok: [ubuntu-20.04] = > {
"changed": false,
```

ok: [ubuntu-20.04] => (item={'regexp': '^max input time', 'line': 'max input time = 3600'})

```
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
}
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: a variÃ; vel dbDatabase foi alterada?]
                                          *************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbDatabase foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbPassword foi alterado no ficheiro configuration.php utilizando o módulo 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"
}
PLAY RECAP
ubuntu-20.04
: ok = 26
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