

```
j0:admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ exitnano tasks/tasks.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 81 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 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 necess 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 inspira  o: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html- name:
"Instala o servi  o 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 v rias
op   es 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 } }"
[?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"
[?12l[?25h[?25l[?12l[?25h[?25lModificado
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#[?12l[?25h[?25l [?12l[?25h[?25lF[?12l[?25h[?25lo[?12l[?25h[?25ln[?12l[?25h[?25lt[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?
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25lm[?12l[?25h[?25l/[?12l[?25h[?25la[?12l[?25h[?25ln[?12l[?25h[?25ls[?12l[?25h[?25li[?12l[?25h[?25lb[?12l[?25h[?25li[?
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25lf[?12l[?25h[?25li[?12l[?25h[?25li[?12l[?25h[?25le[?12l[?25h[?25l [?12l[?25h[?25lm[?12l[?25h[?25lo[?12l[?25h[?25ld[?
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25h[?25lm[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?25h[?25lC[?12l[?25h[?25lr[?12l[?25h[?25li[?12l[?25h[?
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25lt[?12l[?25h[?25lo[?12l[?25h[?25lr[?12l[?25h[?25li[?12l[?25h[?25la[?12l[?25h[?25l [?12l[?25h[?25ld[?12l[?25h[?25le[?
12l[?25h[?25l [?12l[?25h[?25la[?12l[?25h[?25lp[?12l[?25h[?25la[?12l[?25h[?25lc[?12l[?25h[?25lh[?12l[?25h[?25le[?12l[?
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25lm[?12l[?25h[?25le[?12l[?25h[?25l
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25h[?25ls[?12l[?25h[?25lt[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?
25ld[?12l[?25h[?25li[?12l[?25h[?25lr[?12l[?25h[?25le[?12l[?25h[?25lc[?12l[?25h[?25lt[?12l[?25h[?25lo[?12l[?25h[?25lr[?
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25h[?25lm[?12l[?25h[?25lo[?12l[?25h[?25ld[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?25lo[?12l[?25h[?
25l7[?12l[?25h[?25l5[?12l[?25h[?25l5[?12l[?25h[?25l
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25h[?25lo[?12l[?25h[?25lw[?12l[?25h[?25ln[?12l[?25h[?25le[?12l[?25h[?25lr[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?
25lw[?12l[?25h[?25lw[?12l[?25h[?25lw[?12l[?25h[?25l-[?12l[?25h[?25ld[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25la[?
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25h[?25lg[?12l[?25h[?25lr[?12l[?25h[?25lo[?12l[?25h[?25lu[?12l[?25h[?25lp[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?
25lw[?12l[?25h[?25lw[?12l[?25h[?25lw[?12l[?25h[?25l-[?12l[?25h[?25ld[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25la[?
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25h[?25lt[?12l[?25h[?25lh[?12l[?25h[?25l [?12l[?25h[?25li[?12l[?25h[?25lt[?12l[?25h[?25le[?12l[?25h[?25lm[?12l[?25h[?
25ls[?12l[?25h[?25l.[?12l[?25h[?25l
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25h[?25l-[?12l[?25h[?25l [?12l[?25h[?25lp[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25lh[?12l[?25h[?25l.[?12l[?25h[?25l
[?12l[?25h[?25l"[?12l[?25h[?25l/[?12l[?25h[?25lt[?12l[?25h[?25lm[?12l[?25h[?25lp[?12l[?25h[?25l/[?12l[?25h[?25li[?12l[?
25h[?25le[?12l[?25h[?25la[?12l[?25h[?25ln[?12l[?25h[?25lt[?12l[?25h[?25li[?12l[?25h[?25lm[?12l[?25h[?25le[?12l[?25h[?
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25l"[?12l[?25h[?25l
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25h[?25l-[?12l[?25h[?25l [?12l[?25h[?25lp[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25lh[?12l[?25h[?25l:[?12l[?25h[?25l
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25h[?25lw[?12l[?25h[?25lw[?12l[?25h[?25l/[?12l[?25h[?25ll[?12l[?25h[?25le[?12l[?25h[?25la[?12l[?25h[?25ln[?12l[?25h[?
25lt[?12l[?25h[?25li[?12l[?25h[?25lm[?12l[?25h[?25le[?12l[?25h[?25l"[?12l[?25h[?25l
[?12l[?25h[?25l[?12l[?25h[?25l M-D Formato DOSM-A AnexarB SeguranÃsaC Cancelar M-M Formato MacM-P Prepor^T P/
ficheiros
Nome do ficheiro onde escrever: tasks/tasks.yml [?12l[?25h[?25l [ A escrever... ] [ 96 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;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ ansimolecule 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
```

```
./tasks/tasks.yml
96:1 error too many blank lines (2 > 0) (empty-lines)
```

CRITICAL Lint failed with error code 1

```
]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ molecule lintnano tasks/tasks.yml
[?2004h[?1049h[?7h[?1h=[?25l[ A ler... ] [ 96 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 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 necessÃria 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- libmccrypt-dev- gcc- make- autoconf- libc-dev
[?12l[?25h[?25l In. parÃg^Y Prim.linha^T Ir para txtC Cancelar O Fim parÃgV Ãslt. linha
Insira nÃº da linha, nÃº da coluna: [?12l[?25h[?25l9
[?12l[?25h[?25l6
[?12l[?25h[?25l,
[?12l[?25h[?25l1
[?12l[?25h[?25l
^O GravarProcurar ^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txtX Sair ^R Carregar Substituir
^U Colar txtT Ortografia ^ Ir p/ linha M-E RefazerM-6 Copiar txt
line: "memory_limit = 2G" - regexp: "^max_input_time" line: "max_input_time = 3600"
# Fonte: https://docs.ansible.com/ansible/2.7/modules/file_module.htmlCria a directoria temporÃria leantime e a
directoria de apache leantimefile:path: "{ { item.path } }"state: directory mode: 0755 owner: www-datagroup: www-
datawith_items:path: "/tmp/leantime"path: "/var/www/leantime"
[?12l[?25h[?25lModificado
[?12l[?25h[?25l
[?12l[?25h[?25l M-D Formato DOSM-A AnexarB SeguranÃsaC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros
Nome do ficheiro onde escrever: tasks/tasks.yml [?12l[?25h[?25l [ A escrever... ] [ 93 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;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ nano tasks/tasks.yml
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 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 necess 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]

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

PLAY RECAP

ubuntu-20.04 : ok=8 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=~/.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 necessaria 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'})

PLAY RECAP

ubuntu-20.04 : ok=8 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

INFO Idempotence completed successfully.

j0:admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible\$ molecule verify

INFO default scenario test matrix: verify

INFO Performing prun...

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 [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 está 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"
}
```

PLAY RECAP

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

INFO Verifier completed successfully.

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

exit