

```
j0:admlocal@devOps: ~/leantime_ansibleadmlocal@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)]

changed: [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 serviÃço 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 opÃções 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 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 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]

\*\*\*\*\*

changed: [ubuntu-20.04]

TASK [leantime\_ansible : Altera as variÃveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o mÃ³dulo replace.] \*\*\*

changed: [ubuntu-20.04] => (item={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBadmin"'})

changed: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime\_database"'})

changed: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"'})

PLAY RECAP

\*\*\*\*\*

ubuntu-20.04 : ok=14 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

j0:admlocal@devOps: ~/leantime\_ansibleadmlocal@devOps:~/leantime\_ansible\$ molecule idempotence

INFO default scenario test matrix: idempotence

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 > idempotence

PLAY [Converge]

\*\*\*\*\*

TASK [Gathering Facts]

\*\*\*\*\*

ok: [ubuntu-20.04]

TASK [Include leantime\_ansible]

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TASK [leantime\_ansible : Atualiza a cache (equivalente a apt update)]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Atualiza o sistema operativo]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Instalar as dependencias necessÃria ao programa leantime]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Instala o serviÃço apache2 no arranque do sistema]

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ok: [ubuntu-20.04]

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

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Ativa vÃrias opÃÃes no ficheiro php.ini, utilizando o mÃ³dulo lineinfile.]

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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 temporÃria leantime e a directoria de apache leantime]

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

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

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ok: [ubuntu-20.04]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Descomprime o software leantime]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Copia o ficheiro de configuração configuration.sample.php]

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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={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBAdmin"'})

changed: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime\_database"'})

changed: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"'})

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 variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace.

\* => leantime\_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace.

\* => leantime\_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace.

[0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ nano tasks/tasks.yml

[?2004h[?1049h[?7h[?1h=[?25l[ A ler... ][ 147 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 Refazer M-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 dependências necessárias 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](https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html)- name: "Instala o serviço 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](https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html)- name: "Ativa várias opções no ficheiro php.ini, utilizando o módulo 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](https://docs.ansible.com/ansible/2.7/modules/file_module.html)- name: Cria a directoria temporária 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, página 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 } }" password: "{ { password\_leantime } }"priv:

"leantime\_database.\*:ALL"host: localhoststate: present

- name: "Faz o download do software leantime a partir do repositório git"get\_url:url:

[https://github.com/Leantime/leantime/releases/download/{ { versao\\_leantime } }/Leantime-{ { versao\\_leantime } }.zip](https://github.com/Leantime/leantime/releases/download/{ { versao_leantime } }/Leantime-{ { versao_leantime } }.zip)dest: /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

# Apãs 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](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

# Fonte: [https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace\\_module.html](https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace_module.html)- name: Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace.ansible.builtin.replace:path: /var/www/leantime/config/configuration.phpregex: "{ { item.regex } }" replace: "{ { item.line } }"with\_items:- regex: 'dbUser="" line: 'dbUser="{ { login\_leantime } }"'- regex: 'dbDatabase=""line: 'dbDatabase="leantime\_database"- regex: 'dbPassword="" line: 'dbPassword="{ { password\_leantime } }"'

[illegible]

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]

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Ativa v  rias op   es no ficheiro php.ini, utilizando o m  dulo lineinfile.]

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TASK [leantime\_ansible : Cria a directoria tempor  ria leantime e a directoria de apache leantime]

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

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

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ok: [ubuntu-20.04]

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**[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]

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PLAY RECAP

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

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INFO default scenario test matrix: idempotence

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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)]

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ok: [ubuntu-20.04]

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

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ok: [ubuntu-20.04]

TASK [leantime\_ansible : Ativa v rias op  es no ficheiro php.ini, utilizando o m dulo lineinfile.]

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TASK [leantime\_ansible : Cria a directoria tempor ria leantime e a directoria de apache leantime]

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ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'})
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TASK [leantime\_ansible : Cria a base de dados de mysql para o leantime]

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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.

[0;admlcal@devOps: ~/leantime\_ansibleadmlcal@devOps:~/leantime\_ansible\$ exit

exit