```
[0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano tasks/tasks.yml [?2004h[?1049h[?
7h[?1h=[?1h=[?25l[ A ler... ][ 178 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
necessária 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 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- name: "Ativa várias opções no
ficheiro\ php.ini,\ utilizando\ o\ m\tilde{A}^3 dulo\ line infile." ansible. builtin. line infile: 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 temporÃ;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, 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 \ \} \\ "[?12l[?25h[?25lmysql\_user:namlogin\_leantime \ ] \} \\ "password: "\{\{(12l(?25h(?25lmysql\_user:namlogin\_leantime \ ] \}) \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \}) \} \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \}) \} \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \} \} \} \\ "password: "\{\{(12l(?25l
password_leantime }} "priv: "leantime_database.*:ALL"host: localhoststate: present - name: "Faz o download do software
leantime a partir do repositA3rio git"get url:url: https://github.com/Leantime/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 # Após
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 configura A§ A£o 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: trueforce: false [?12l[?25h[?25l remote src: trueforce: false # Fonte:
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:
\label{lem:config} $$ \operatorname{login_leantime} : "{\{ item.regexp }\}" replace: "{\{ item.line }\}" with items:- regexp: "dbUser=""| line: 'dbUser=""| line: 'dbUser=
regexp: 'dbPassword=""' line: 'dbPassword="{{ password_leantime }}"' # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/template module.html- name: Copia o template do site
para a pÄįsta /etc/apache2/sites-availableansible.builtin.template:src: leantime.template.j2dest: /etc/apache2/sites-
available/leantime.confowner: root group: www-data mode: 0644 force: false # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled"ansible.builtin.file:src: /etc/apache2/sites-
available/leantime.confdest: /etc/apache2/sites-enabled/leantime.confstate: link # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled" ansible.builtin.file: path: /etc/apache2/sites-
available/leantime.conf owner: rootgroup: www-datamode: '0777' - name: "Apaga o link 000-default.conf na pasta sites-
enabled do apache2"ansible.builtin.file:path: /etc/apache2/sites-enabled/000-default.confstate: absent [?12l[?25h[?25l[?
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25le[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25l"Activa o módulo mod rewrite no apache[?12l[?25h[?25l[?12l[?25h[?
25l"[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25lt[?12l[?25h[?25l [?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... ] [ 184 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
251[?121[?25h[?25l M-D Formato DOSM-A AnexarB SegurançaC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros
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Nome do ficheiro onde escrever: tasks/tasks.yml [?12l[?25h[?25l [ A escrever... ] [ 183 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 [?121[?25h[?25l[?121[?25h[?10491 [?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/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;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule deploy
Usage: molecule [OPTIONS] COMMAND [ARGS]... Try "molecule --help" for help. Error: No such command "deploy".
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule converger 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]
[ubuntu-20.04] TASK [Include leantime ansible]
[leantime ansible : Atualiza a cache (equivalente a apt update)]
TASK [leantime ansible : Instalar as dependencias necessÃ;ria ao programa leantime]
[leantime ansible: Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]
'^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=
{\text{'regexp': '^memory\_limit', 'line': 'memory\_limit} = 2G'}) \text{ ok: [ubuntu-20.04]} => (item={\text{'regexp': '^max\_input\_time', 'line': 'max\_input\_time} = 3600'}) TASK [leantime\_ansible: Cria a directoria temporÃ; ria leantime e a directoria de apache
20.04] => (item={'path': '/var/www/leantime'}) TASK [leantime_ansible : Cria a base de dados de mysql para o leantime]
  Module did not set no_log for update_password ok: [ubuntu-20.04] TASK [leantime_ansible : Faz o download do
[leantime ansible : Descomprime o software leantime]
      [ubuntu-20.04] TASK [leantime_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro
[leantime ansible: Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled]
PLAY RECAP
       ubuntu-20.04: ok=19 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 ]0;admlocal@devOps:
~/leantime ansibleadmlocal@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]
             [ubuntu-20.04] TASK [Include leantime ansible]
[leantime ansible : Atualiza a cache (equivalente a apt update)]
TASK [leantime ansible: Instalar as dependencias necessÃ; ria ao programa leantime]
```

```
[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
'^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=
{\text{'regexp': '^memory\_limit', 'line': 'memory\_limit} = 2G'}) \text{ ok: [ubuntu-20.04]} => (item={\text{'regexp': '^max\_input\_time', 'line': 'memory\_limit}})
'max input time = 3600'}) TASK [leantime ansible : Cria a directoria temporA;ria leantime e a directoria de apache
20.04] => (item={'path': '/var/www/leantime'}) TASK [leantime_ansible : Cria a base de dados de mysql para o leantime]
Module did not set no_log for update_password ok: [ubuntu-20.04] TASK [leantime_ansible : Faz o download do
[leantime ansible : Descomprime o software leantime]
[ubuntu-20.04] TASK [leantime_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro
configuration.php utilizando o módulo replace.] *** ok: [ubuntu-20.04] => (item={'regexp': 'dbUser=""', 'line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""", 'line':
\label{thm:back} $$ $ \dbDatabase = \ddDatabase = \ddDatabase = \ddDatabase = \ddDatabase = \ddDatabase = \ddDat
[leantime ansible : Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled]
RECAP
ubuntu-20.04: ok=19 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 INFO Idempotence completed
successfully. ]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/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles INFO Running default >
verify INFO Running Ansible Verifier PLAY [Infraestrutura conduzida por testes]
[ubuntu-20.04] TASK [Simulação: Atualizar a cache do sistema]
ok: [ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: A cache est\tilde{A}_i atualizada" } TASK [Atualizar o sistema
20.04] TASK [teste: o sistema operativo encontra-se atualizado?]
"msg": "SUCESSO: O sistema operativo estÃ; atualizado" } TASK [Teste: a cache encontra-se atualizada?]
"changed": false, "msg": "SUCESSO: A cache estÃ; atualizada" } TASK [Simulação: testa se as aplicações
TASK [Teste: as dependencias encontra-se instaladas?]
false, "msg": "SUCESSO: As dependencias estavam instaladas" } TASK [Simulação: Testar se o serviço apache2 se
serviço apache2 encontra-se ativo no arranque no sistema, e estÃ; iniciado?]
              *********************************** ok: [ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: O servi\bar{A} so the servial for the servial false, "msg": "SUCESSO: O servial false, "msg": O
apache2 estÃ; correctamente instalado e inicia com o arranque do sistema" } TASK [Rotina Auxiliar> Procura o caminho
[Simulação: Ativa a opção file_uploads no ficheiro php.ini, utilizando o módulo lineinfile.]
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
[Teste: As linhas do php.ini encontram-se alteradas?]
A pasta /var/www/leantime existe e tem as permissões certas?]
          [ubuntu-20.04] = > \{ "changed": false, "msg": "SUCESSO: A base de dados leantime_database j<math>\tilde{A}_i se encontra criada" \}
TASK [Simulação e Teste: Verifica se o endereço git para a versão de leantime existe]
[Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
```

```
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?]
{ "changed": false, "msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php" } TASK [Simulação: Testa se
[ubuntu-20.04] TASK [Teste: a variÃ; vel dbDatabase foi alterada?]
false, "msg": "SUCESSO: O dbDatabase foi alterado no ficheiro configuration.php" } TASK [Simulação: Testa se o
20.04] TASK [Teste: O dbPassword foi alterado?]
"changed": false, "msg": "SUCESSO: O dbPassword foi alterado no ficheiro configuration.php" } TASK [Simulação:
ok: [ubuntu-20.04] TASK [Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem as permissões certas?]
TASK \ [Simula \~A§\~A£o: Obtem \ informa\~A§\~A£o \ sobre \ o \ ficheiro \ /etc/apache2/sites-enabled/leantime.conf]
ok: [ubuntu-20.04] => { "changed": false, "msq": "All assertions passed" } TASK [Simulação: Activa o módulo
20.04] TASK [Simulação: Activa o módulo mod rewrite no apache]
   ok: [ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: mod_rewrite encontra-se instalado e ativo" } PLAY RECAP
ubuntu-20.04: ok=35 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
```