```
[0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano tasks/tasks.yml [?2004h[?1049h[?
 7h[?1h=[?1h=[?25l[ A ler... ][ 157 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 opçÃμes 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=""{\{ login_leantime \}} "- regexp: 'dbDatabase=""| line: 'dbDatabase="leantime_database"| - regexp: 'dbDatabase=""| line: 'dbDatabase="| leantime_database"| - regexp: 'dbDatabase=""| line: 'dbDatabase="| leantime_database="| leantime_database="| line: 'dbDatabase="| leantime_database="| leantime_database="| line: 'dbDatabase="| leantime_database="| line: 'dbDatabase="| li
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: 0755 [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l]?12l]?
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2004h[?1049h[?7h[?1h=[?25l[ A ler... ][ 167 linhas lidas ] GNU nano 4.8 tasks/tasks.yml ^G Ajuda ^O Gravar ^
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 necessÃ; ria ao programa leantime apt:pkg:- mc- screen- git- apache2- mysql-server- php- php-
mysql-\ php-ldap-\ php-soap-\ php-json-\ graphviz-\ ph\underline{p}-x\underline{m}l-\ php-gd-\ ph\underline{p}-zip-\ libapache2-mod-php-\ php-dev\_\ lib\underline{m}\underline{c}rypt-dev\_\ lib\underline{m}\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-\underline{c}rypt-dev_-
dev- gcc- make- autoconf- libc-dev [?12l[?25h[?25l In. parág^Y Prim.linha^T Ir para txtC Cancelar O Fim parágV Últ.
linha Insira n\hat{A}^0 da linha, n\hat{A}^0 da coluna: [?12l[?25h[?25l1 [?12l[?25h[?25l6 [?12l[?25h[?25l0 [?12l[?25h[?25l, [?12l[?25h[?25l] [?12l] [?12l[?25h[?25l] [?12l[?25h[?25l] [?12l[?25h[?25l] [?12l] [?12
25l3 [?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 - regexp: 'dbUser=""' line:
 ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line: ""-" line
'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.j2 dest: /etc/apache2/sites-
available/leantime.confowner: rootgroup: www-datamode: 0755 # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbųlico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled"ansible.builtin.file:src: /etc/apache2/sites-
available/leantime.confdest: /etc/apache2/sites-enabledowner: rootgroup: rootmode: '0777'state: link [?12l[?25h[?
25lModificado [?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]
[?12I[?25h[?25l[?12I[?25h[?25l[?12I]?25h[?25l # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l[?12l[?25h[?25l[?12l]?
25h[?25l ansible.builtin.file:[?12l[?25h[?25l[?12l[?25h[?25l src: /etc/apache2/sites-available/leantime.conf[?12l[?25h[?25l[?25l]?25l]?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?2
12l[?25h[?25l dest: /etc/apache2/sites-enabled[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l]?25h[?25l]]?25h[?25l]]?25h[?25l]]?25h[?25l]
12l[?25h[?25l[?12l[?25h[?25l group: root[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l mode: '0777'[?12l[?25h[?25l[?12l[?25h[?25l]]?12l]?
25h[?25l[?12l[?25h[?25l state: link[?12l[?25h[?25l [?12l[?25h[?25l[?12l[?25h[?25l M-D Formato DOSM-A AnexarBeta]]]])])) \\
SegurançaC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros Nome do ficheiro onde escrever: tasks/tasks.yml [?
12l[?25h[?25l [ A escrever... ] [ 167 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 [?11>[?2004l]0;admlocal@devOps:
~/leantime_ansibleadmlocal@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;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]
[ubuntu-20.04] TASK [Include leantime ansible]
[leantime ansible : Atualiza a cache (equivalente a apt update)]
               [ubuntu-20.04] 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: } [\text{ubuntu-20.04}] => (\text{item=} {\text{'regexp': '^max\_input\_time', 'line': 'memory\_limit', 'memory\_limit', 'line': 'memory\_limit', '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 mysgl 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 variÃ;veis 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':
'dbDatabase="leantime database"'}) ok: [ubuntu-20.04] => (item={'reqexp': 'dbPassword=""', 'line':
'dbPassword="#S3gr3d0S3cr3t0#"'}) TASK [leantime ansible : Copia o template do site para a pÃ;sta /etc/apache2/sites-
=> {"changed": false, "gid": 0, "group": "root", "mode": "0755", "msg": "refusing to convert from directory to symlink for
/etc/apache2/sites-enabled", "owner": "root", "path": "/etc/apache2/sites-enabled", "size": 4096, "state": "directory", "uid":
0 PLAY RECAP
ubuntu-20.04: ok=15 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/converge.yml 10;admlocal@devOps:
~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule convergelintnano tasks/tasks.yml [?2004h[?1049h[?
7h[?1h=[?1h=[?25l[ A ler... ][ 167 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
necessġria 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 vÃ;rias 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: "^pile_uploads" line: "file_uploads = 1"regexp: "^upload_max_filesize" line: "upload_max_filesize = 1G"regexp: "^post_max_file_uploads" line: "max_file_uploads = 20"regexp: "^post_max_size" line: "post_max_size = 2G"regexp: "post_max_size
"^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, pÅjgina 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: "{{
password_leantime }} "priv: "leantime_database.*:ALL"host: localhoststate: present - name: "Faz o download do software
leantime a partir do repositĂ³rio 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,
db password \ e \ db database \ no \ ficheiro \ configuration. php \ utilizando \ o \ m\tilde{A}^3 \\ du lo \ replace. ansible. builtin. replace: path: \\ database \ no \ ficheiro \ configuration. php \ utilizando \ o \ m\tilde{A}^3 \\ du lo \ replace. ansible. builtin. replace: path: \\ database \ no \ ficheiro \ configuration. php \ utilizando \ o \ m\tilde{A}^3 \\ du lo \ replace. ansible. builtin. replace: path: \\ database \ no \ ficheiro \ configuration. \\ database \ no 
\label{lem:config} $$ \operatorname{login_leantime} $$ \operatorname{login_leantime} $$ '' - \operatorname{login_leantime} $$ '' -
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: 0755 # 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-enabledowner: rootgroup: rootmode: '0777'state: link [?12l[?25h[?25lmode:
'0777'state: link [?12l[?25h[?25l78Mgroup: root [?12l[?25h[?25l78Mowner: root [?12l[?25h[?25l78Mdest:
25178Mansible.builtin.file: [?121[?25h[?25178M- name: "Cria um link simbólico para o ficheiro leantime.conf na pasta
/etc/apache/sites-enabled" [?12l[?25h[?25l78M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file_module.html [?12I[?25h[?25l78M[?12I[?25h[?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]?25lf]
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25l[?12l[?25h[?25l[?12l[?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25lModificadoM leantime.conf [?12l[?25h[?25l [?12l[?25h[?25l]?12l]?25h]?
25l[?12l[?25h[?25l78 Mleantime.conf [?12l[?25h[?25l [?12l[?25h[?25l[?12l[?25h[?25l/[?12l[?25h[?25l/[?12l]?25h[?25l/]]]]]]
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... ] [ 167 linhas escritas ]^O
Gravar W Procurar K Cortar txt J Justificar C Pos cursor Desfazer M-A Marcar txt Sair R Carregar Substituir U Colar txt T Ortografia Ir p/ linha M-E Refazer M-6 Copiar txt [?12l[?25h[?25h[?25h[?1049l [?11>[?
20041]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ nano tasks/tasks.yml 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]
[ubuntu-20.04] TASK [Include leantime_ansible]
                                      [leantime_ansible : Atualiza a cache (equivalente a apt update)]
                    TASK [leantime ansible : Instalar as dependencias necessária 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 v\tilde{A}_irias op\tilde{A}_i§\tilde{A}_iµes 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=
{'regexp': '^memory_limit', 'line': 'memory_limit = 2G'}) ok: [ubuntu-20.04] => (item={'regexp': '^max_input_time', 'line': 'memory_limit', 'line': 'm
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\ \bar{m}\tilde{A}^3dulo\ replace.]\ ****\ ok:\ [ubuntu-20.04]\ =>\ (item=\{'regexp':\ 'dbUser='''',\ 'line':\ line':\ line':
 'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""', 'line':
RECAP
```

ubuntu-20.04: ok=16 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]
[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: } [\text{ubuntu-20.04}] => (\text{item=} {\text{'regexp': '^max\_input\_time', 'line': 'memory\_limit', 'memory\_limit', 'line': 'memory\_limit', '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 mysgl 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':
'dbDatabase="leantime database"'}) ok: [ubuntu-20.04] => (item={'reqexp': 'dbPassword=""', 'line':
"db Password = "\#S3gr3d\bar{0}S3cr3t0\#""\}) \ TASK \ [leantime\_ansible: Copia \ o \ template \ do \ site \ para \ a \ p\tilde{A}_ista \ /etc/apache2/sites-para \ properties \ para \ a \ properties \ para \ a \ properties \ para \ properties \ prop
20.04] PLAY RECAP
ubuntu-20.04: ok=16 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 template do site para a pA¡sta /etc/apache2/sites
available * => leantime_ansible : Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled
]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ nano tasks/ [?2004h[?1049h[?7h[?1h=[?
1h=[?25l[ "tasks/" é uma pasta ] GNU nano 4.8 Novo buffer ^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 [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?1049l [?11>[?2004l]0;admlocal@devOps:
 ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ nano tasks/tasks.yml [?2004h[?1049h[?7h[?1h=[?25l[ A
ler... ][ 167 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 inspiração:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service module.html- name: "Instala o servi\( \text{A}\) 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\~A_irias\ op\~A§\~A\mu es\ no\ name: "Ativa\ v\~A_irias\ op\~A§\~A\mu es\ name: "Ativa\ v\~A_irias\ op\~A
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 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 \ ] \} \\ "[?12l[?25lmysql\_user:namlogin\_leantime \ ] \} \\ "[?12l[
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 }}.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:
/var/www/leantime/config/configuration.php regexp: "{{ item.regexp }}" replace: "{{ item.line }}"with_items:- regexp: 'dbUser=""' line: 'dbUser=""{ login_leantime }}"- regexp: 'dbDatabase=""' line: 'dbDatabase="leantime_database"' -
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: 0755 # 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.confowner: rootgroup: rootmode: '0777'state: link [?12l[?
25h[?25lmode: '0777'state: link [?12l[?25h[?25l78Mgroup: root [?12l[?25h[?25l78Mowner: root [?12l[?25h[?25l78Mdest:
/etc/apache2/sites-enabled/leantime.conf [?12l[?25h[?25l78Msrc: /etc/apache2/sites-available/leantime.conf [?12l[?25l78Msrc: /etc/ap
25178Mansible.builtin.file: [?121[?25h[?25178M-name: "Cria um link simbólico para o ficheiro leantime.conf na pasta
/etc/apache/sites-enabled" [?121[?25h[?25178M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l78M[?12l[?25h[?
25178Mmode: 0755 [?121]?25h[?25178Mgroup: www-data [?121]?25h[?25178Mowner: root [?121]?25h[?25178Mdest:
/etc/apache2/sites-available/leantime.conf [?12l[?25h[?25l78Msrc: leantime.template.j2 [?12l[?25h[?
25178Mansible.builtin.template: [?121[?25h[?25178M- name: Copia o template do site para a pAjsta /etc/apache2/sites-
available [?121[?25h[?25178M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/template module.html [?12l[?25h[?25l78M[?12l[?25h[?
25178Mline: 'dbPassword="{{ password_leantime }}"' [?12l[?25h[?25178M-regexp: 'dbPassword=""' [?12l[?25h[?25178Mline: 'dbDatabase="leantime_database"' [?12l[?25h[?25178M-regexp: 'dbDatabase=""' [?12l[?25h[?25178Mline: 'dbUser="" [?12l[?25h[?25178M-regexp: 'dbUser=""' [?12l[?25h[?25178Mwith_items: [?12l[?25h[?25178Mreplace: "{{ item.line }}" [?12l[?25h[?25178M-regexp: "]]" [?12l[?25h[?
/var/www/leantime/config/configuration.php [?121[?25h[?25178Mansible.builtin.replace: [?121[?25h[?25178M- name: Altera
as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace. [?12l[?25h[?
25178M # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html [?121]?25h[?
25178M[?12l[?25h[?25178Mforce: false [?12l[?25h[?25178Mremote_src: true [?12l[?25h[?25178Mmode: '0755' [?12l[?25h[?
25178Mgroup: www-data [?121[?25h[?25178Mowner: www-data [?121[?25h[?25178Mdest:
/var/www/leantime/config/configuration.php [?12l[?25h[?25l78Msrc: /var/www/leantime/config/configuration.sample.php [?
121[?25h[?25l78Mansible.builtin.copy: [?12l[?25h[?25l78M- name: Copia o ficheiro de configuração
configuration.sample.php [?12l[?25h[?25l78M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/copy\_module.html~\cite{thm1} \cite{thm2} ansible/latest/collections/ansible/builtin/copy\_module.html~\cite{thm2} \cite{thm2} \ci
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]?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]?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]?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]?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]?2
25lModificado - name: "Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled" [?12l[?
25h[?25l78Mforce: false [?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[?25l78-name:"Cria~um~link~simb\tilde{A}^3] ico~para~o~ficheiro~leantime.conf~na~pasta~link~simb\tilde{A}^3] ico~para~o~ficheiro~leantime.conf~na~pasta~link~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba~simba
/etc/apache/sites-enabled" [?121[?25h[?25178 ansible.builtin.file: [?121[?25h[?25178 src: /etc/apache2/sites-
available/leantime.conf [?12l[?25h[?25l78 dest: /etc/apache2/sites-enabled/leantime.conf [?12l[?25h[?25l78 owner: root [?
121[?25h[?25178 group: root [?121[?25h[?25178 mode: '0777' [?121[?25h[?25178 state: link [?121[?25h[?25178 [?121[?25h[?
25l[?12l[?25h[?25l[?12l[?25h[?25l]?4]]] \\ \text{M-D Formato DOSM-A AnexarB Seguran $\tilde{A}$ a $C$ Cancel and $\tilde{A}$ a $C$ Cancel and $\tilde{A}$ and $\tilde{
M-M Formato MacM-P Prepor^T P/ ficheiros Nome do ficheiro onde escrever: tasks/tasks.yml [?12l[?25h[?25l [ A
escrever... ] [ 168 linhas escritas ]^O Gravar^W Procurar ^K Cortar txt ^J Justificar ^C Pos cursorU Desfazer M-A Marcar
txtX Sair ^R Carregar^\ Substituir ^U Colar txt ^T Ortografia ^ Ir p/ linha M-E Refazer M-6 Copiar txt [?121[?25h[?25l[?
12l[?25h[?1049l [?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano
tasks/tasks.yml molecule idempotenceconverge 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\ necess \tilde{A}_i 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=
{'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 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':
'dbDatabase="leantime_database"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line':
ubuntu-20.04: ok=16 changed=0 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://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 necessária ao programa leantime]
******************** ok: [ubuntu-20.04] TASK
[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=
{'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 temporAjria 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 variÃ;veis dbuser, dbpassword e dbdatabase no ficheiro
configuration.php utilizando o módulo replace.] *** ok: [ubuntu-20.04] => (item={'reqexp': 'dbUser=""', 'line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""", 'line':
'dbDatabase="leantime_database"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line':
*********
ubuntu-20.04: ok=16\ 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://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 estÃ; 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?]
serviço apache2 encontra-se ativo no arranque no sistema, e estÁ¡ iniciado?]
                  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': 'post_max_size', 'line': 'post_max_size', 'line': 'post_max_size', 'line': 'post_max_size', 'line': 'post_max_size', 'line': 'post_max_size', 'line': 'max_file_uploads', 'line': 'post_max_size', 'post_max_size', 'line': 'post_max_size', 'post_ma
'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 permissµes certas?]
[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]
                  [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?]
[ubuntu-20.04] TASK [Teste: a variável dbDatabase foi alterada?]
          \frac{1}{1} \frac{1}
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 permissµes certas?]
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/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 verifyidempotenceconvergenano tasks/tasks.yml [?
2004h[?1049h[?7h[?1h=[?25l[ A ler... ][ 168 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 necessÃ;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§Â£o:
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: "^uploads" line: "file_uploads = 1"regexp: "^upload_max_filesize" line: "upload_max_filesize = 1G"regexp: "^uploads" line: "max_file_uploads = 20"regexp: "^upload_max_size" line: "post_max_size" line: "post_max_size = 2G"regexp: "^uploads" line: "post_m
"^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
```

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humans de Jeff Geerling, pġgina 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: "{{
password leantime }} "priv: "leantime database.*:ALL"host: localhoststate: present - name: "Faz o download do software
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:
/var/www/leantime/config/configuration.php regexp: "{{ item.regexp }}" replace: "{{ item.line }}"with_items:- regexp: 'dbUser=""' line: 'dbUser=""{ login_leantime }}"'- regexp: 'dbDatabase=""' line: 'dbDatabase="leantime_database"'-
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: 0755 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.confowner: rootgroup: rootmode: '0777' [?12l[?25h[?
25lgroup: rootmode: '0777'state: link [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25lModificado'[?12l[?25h[?25l[?12l]?
25h[?25l5'[?12l[?25h[?25l55'[?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... ] [ 168 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~\cite{Condition} (2004l)~\cite{Condition} (2004l)~\cite{Conditi
molecule verifyidempotenceconverge 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 necessária 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 v\tilde{A}; rias op\tilde{A}§\tilde{A}µes 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=
{'regexp': '^memory_limit', 'line': 'memory_limit = 2G'}) ok: [ubuntu-20.04] => (item={'regexp': '^max_input_time', 'line': 'memory_limit', 'line': 'm
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\ \bar{m}\tilde{A}^3dulo\ replace.]\ ****\ ok:\ [ubuntu-20.04]\ =>\ (item=\{'regexp':\ 'dbUser='''',\ 'line':\ line':\ line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""', 'line':
RECAP
```

ubuntu-20.04: ok=16 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps: ~/leantime_ansibles molecule convergeidempotenece Usage: molecule [OPTIONS] COMMAND [ARGS]... Try "molecule --help" for help. Error: No such command "idempotece".]0;admlocal@devOps:

```
~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule idempotecence 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]
'^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 temporAjria 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]
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]
                                           ******************************* ok: [ubuntu-20.04] TASK [leantime_ansible :
[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={'reqexp': 'dbUser=""', 'line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""", 'line':
'dbDatabase="leantime_database"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line':
ubuntu-20.04: ok=16 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 idempotenceverify
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 [SimulaA§A£o: Atualizar a cache do 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?]
TASK [Teste: as dependencias encontra-se instaladas?]
        serviço apache2 encontra-se ativo no arranque no sistema, e está iniciado?]
         [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': '^max_file_uploads', 'line': 'max_file_uploads', 'line'
'^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={'reqexp': '^max input time', 'line': 'max input time = 3600'}) TASK
[Teste: As linhas do php.ini encontram-se alteradas?]
```

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"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso" } TASK [Simulação: Obtem informação sobre a pastas
A pasta /var/www/leantime existe e tem as permissµes certas?]
"SUCESSO: Permissões correctas no site leantime" } TASK [Simulação: Verifica se é necessário criar a base de
[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]
         [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?]
 \{ \ \text{"changed": false, "msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Testa se foi alterado no ficheiro configuration.php" } \ \textbf{TASK [Simula\~A§\~A£o: Te
[ubuntu-20.04] TASK [Teste: a variA; 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
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?]
data\"", "changed": false, "evaluated_to": false, "msg": "ERRO: PermissAµes 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/admlocal/.cache/molecule/leantime ansible/default/inventory --skip-tags molecule-notest,notest
/home/admlocal/leantime_ansible/molecule/default/verify.vml 10:admlocal@devOps:
~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano molecule/default/verify.yml [?2004h[?1049h[?7h[?1h=[?
1h=[?25l[ A ler... ][ 302 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 inspiração 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:
Variáveisinclude_vars:file: ../../vars/main.yml- name: "Simulação: Atualizar a cache do sistema"apt:update_cache:
truecache_valid_time: 3600check_mode: trueregister: estado- name: "teste: a cache encontra-se actualizada?"assert:that:-
not estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem actualizações
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 estA; atualizado"
fail_msg: "ERRO: Existem actualizaA§Aµes pendentes" - name: "Teste: a cache encontra-se atualizada?" assert: that: - not
estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem atualizações pendentes" -
name: "Simulação: testa se as aplicações 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§Â£o:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html- name: "SimulaħÄ£o: Testar se o
serviço apache2 se encontra instalado, iniciado e ativo no arranque"service:name: apache2state: startedenabled:
truecheck_mode: true [?12l[?25h[?25lenabled: trueO serviço apache2 encontra-se ativo no arranque no sistema, e está
iniciado?"O serviço apache2 estÃ; correctamente instalado e inicia com o arranque do sistema"O serviço apache2 não
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"recurseregister: caminho php ini #
Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "Simulação: Ativa
a opā̃§ā̃£o file_uploads no ficheiro php.ini, utilizando o mā̃³dulo lineinfile."ansible.builtin.lineinfile:path: "{{
caminho_php_ini.files[0].path }} "regexp: "{{ 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" [?12l[?25h[?25l78line: "post_max_size = 2G"- regexp: "^memory_limit"line: "memory_limit = 2G"-
regexp: "^max_input_time" line: "max_input_time = 3600"As linhas do php.ini encontram-se alteradas ?"ficheiro php.ini foi
alterado com sucesso" Algumas alterações ao ficheiro php.ini não tiveram sucesso" O site deve existir na pasta
/var/www/leantime. Este teste visa determinar se a pasta # existe e se temas permissµes certas # Fonte de inspira§Â£o:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: Obtem
informação sobre a pastas /var/www/leantime" stat: path: "/var/www/leantime"register: pasta - name: "Teste: A pasta
/var/www/leantime existe e tem as permissões 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:
Permissµes correctas no site leantime "fail msq: "ERRO: Permissµes incorrectas no site leantime ou site n£o existente"
# Outro dos requesitos é a existência de uma base de dados para o site. [?12l[?25h[?25l # Outro dos requesitos é a
existência de uma base de dados para o site. # Esta base de dados deve ser criada, logo tem de ser testada para
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determinar se ela existe ou não. # Fonte de inspiração: https://serverfault.com/questions/173978/from-a-shell-script-
how-can-i-check-whether-a-mysql-database-exists- name: "Simulação: Verifica se é necessÃ;rio criar a base de dados
leantime database"shell: "mysgl -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 jA; se encontra criada"fail_msg: "ERRO: NA£o existe a base de dados leantime_database" # Teste: O
download do software leantime deve ser possÂvel, a partir do site do leantime- name: "Simula§Â£o e Teste: Verifica se o
endere \~{A}\$o \ git \ para \ a \ vers \~{A}£o \ de \ leantime \ existe"uri:url: \ https://github.com/Leantime/releases/download/\{\{auther \ auther 
versao leantime }}/Leantime-{{ versao leantime }}.zipregister: resultadoTeste: Do ficheiro configuration.php no site do
leantime. A existÂ<sup>a</sup>ncia deste ficheiro com as permissµes certas indica que o processo de unzip correu
bemDocumentaA§A£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"ficheiro ficheiro
/var/www/leantime/config/configuration.php existe e tem as permissµes 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: PermissAues correctas e ficheiro configuration.php
existente" fail msg: "ERRO: Permissões incorrectas ou ficheiro configuration.php não existente" # Teste: O ficheiro
/var/www/leantime/config/configuration.php necessita de ser alterado. # As variÃ;veis dbuser, dbDatabase, e dbPassword
necessitam de estar configuradas. # Por simula§Â£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:
"Simulação: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo
replace."ansible.builtin.replace:path:/var/www/leantime/config/configuration.phpregexp: '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 nA£o foi alterado no ficheiro configuration.php" # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name: "SimulaĀṣĀfo: Testa se o
dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace."ansible.builtin.replace:path:
/var/www/leantime/config/configuration.php [?12l[?25h[?25l ansible.builtin.replace:path:
/var/www/leantime/config/configuration.phpregexp: 'dbDatabase=""'replace: larger than the configuration of the c
'dbDatabase="leantime database"'check mode: yesregister: conffailed when: false - name: "Teste: a variável 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: "Simulação: Testa se o
dbPassword foi alterado no ficheiro configuration.php utilizando o módulo 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" # A configuração do site leantime necessita que
seja criado um site através de um ficheiro de [?12l[?25h[?25l # A configuração do site leantime necessita que seja
criado um site através de um ficheiro de # configuração, dentro das pasta do apache2. Deve existir um ficheiro de
configura§Â£o do # leantime em (/etc/apache2/sites-available # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "SimulaçÃfo: Obtem
informação sobre o ficheiro /etc/apache2/sites-available/leantime.conf"stat:path: "/etc/apache2/sites-
available/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem
as permissµes certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.isreg- ficheiro.stat.mode == "0755" -
ficheiro.stat.pw_name == "root" - ficheiro.stat.gr_name == "www-data" success_msg: "SUCESSO: Permissµes
correctas"fail msg: "ERRO: Permissões incorrectas" # O site deve estar ativo no apache. Este teste vai verificar se o site
se encontra ativo # https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name:
"Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf"stat:path:
"/etc/apache2/sites-enabled/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-
enabled/leantime.conf existe e tem as permissµes certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.islnk-
ficheiro.stat.mode == "0777" - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l77root" \ [?12l[?25h[?25l78M-1]]]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l77root" \ [?12l[?25h[?25l78M-1]]]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l77root" \ [?12l[?25h[?25l78M-1]]]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l78M-1]]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l78M-1]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l78M-1]]]] - ficheiro.stat.pw \ name == "root" \ [?12l[?25h[?25l78M-1]]] - ficheiro.stat.pw \ name == "root" \ name 
ficheiro.stat.islnk [?12l[?25h[?25l78M-ficheiro.stat.exists [?12l[?25h[?25l78Mthat: [?12l[?25h[?25l78Massert: [?12l[?25h[?25l78M]
25178M- name: "Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?" [?121]?
25h[?25l78M[?12l[?25h[?25l[?12l[?25h[?1049l [?11>[?2004l]0;admlocal@devOps:
~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano molecule/default/verify.yml [?2004h[?1049h[?7h[?1h=[?
1h=[?25l[ A ler... ][ 302 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 inspiração 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:
Variáveisinclude vars:file: ../../vars/main.yml- name: "Simulação: Atualizar a cache do sistema"apt:update cache:
truecache_valid_time: 3600check_mode: trueregister: estado- name: "teste: a cache encontra-se actualizada?"assert:that:-
not estado.changedsuccess msg: "SUCESSO: A cache estÃ; atualizada fail msg: "ERRO: Existem actualizaçÃues
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 estÃ; atualizado"
fail_msg: "ERRO: Existem actualizações pendentes" - name: "Teste: a cache encontra-se atualizada?" assert: that: - not
estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem atualizações pendentes"
name: "Simulação: testa se as aplicações 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 inspiração:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html- name: "SimulaçÃfo: Testar se o
serviço apache2 se encontra instalado, iniciado e ativo no arranque"service:name: apache2state: startedenabled:
truecheck mode: true [?12l[?25h[?25lenabled: trueO serviço apache2 encontra-se ativo no arranque no sistema, e estÃ;
```

```
iniciado?"O serviço apache2 estÃ; correctamente instalado e inicia com o arranque do sistema"O serviço apache2 não
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"recurseregister: caminho php ini #
Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile module.html- name: "SimulaA§A£o: Ativa
a opħÄ£o file uploads no ficheiro php.ini, utilizando o mijdulo lineinfile."ansible.builtin.lineinfile:path: "{{
caminho\_php\_ini.files[0].path~\}\}"regexp:~"\{\{~item.regexp~\}\}"line:~"\{\{~item.line~\}\}"with\_items:-~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~regexp:~rege
"^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" [?12l[?25h[?25l78line: "post_max_size = 2G"- regexp: "^memory_limit"line: "memory_limit = 2G"-
regexp: "^max input time" line: "max input time = 3600"As linhas do php.ini encontram-se alteradas ?"ficheiro php.ini foi
alterado com sucesso" Algumas alterações ao ficheiro php.ini não tiveram sucesso" O site deve existir na pasta
/var/www/leantime. Este teste visa determinar se a pasta # existe e se temas permissµes certas # Fonte de inspira§Â£o:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "SimulaçÃfo: Obtem
informa§Â£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 permissµes 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:
Permissões correctas no site leantime "fail msg: "ERRO: Permissões incorrectas no site leantime ou site não existente"
# Outro dos requesitos é a existência de uma base de dados para o site. [?121[?25h[?25] # Outro dos requesitos é a
existA<sup>a</sup>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 nAfo. # Fonte de inspiraA$Afo: https://serverfault.com/questions/173978/from-a-shell-script-
how-can-i-check-whether-a-mysql-database-exists- name: "Simulação: Verifica se é necessÃ;rio criar a base de dados
leantime database"shell: "mysgl -u root -e 'use leantime database"resultfailed when: false changed when: false - name:
"Teste: A base de dados leantime database existe?" assert: that:- result.rc == 0 success msq: "SUCESSO: A base de dados
leantime database jÄ; se encontra criada fail msg: "ERRO: NÄ£o existe a base de dados leantime database" # Teste: O
download do software leantime deve ser possÂvel, a partir do site do leantime- name: "Simula§Â£o e Teste: Verifica se o
endereÃ$o git para a versão 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 existência deste ficheiro com as permissões certas indica que o processo de unzip correu
bemDocumentaħÄ£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"ficheiro ficheiro
/var/www/leantime/config/configuration.php\ existe\ e\ tem\ as\ permiss\~{A}\mu es\ certas?" ficheiro.stat.exists\ [?12l[?25h[?25lthat:-1.5]]] ficheiro.stat.exists\ [?12l[?25lthat:-1.5]] ficheiro.stat.exists\ [?12l[?25lthat:-1.5]] ficheiro.stat.exists\ [?12l[?25lthat:-1.5]] ficheiro.stat.exists\ 
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: Permissões correctas e ficheiro configuration.php
existente" fail msg: "ERRO: Permissões incorrectas ou ficheiro configuration.php não existente" # Teste: O ficheiro
/var/www/leantime/config/configuration.php necessita de ser alterado. # As variÃ;veis dbuser, dbDatabase, e dbPassword
necessitam de estar configuradas. # Por simulação o sistema vai determinar se estas estão configuradas com o valor
esperado. # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name:
"Simulação: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo
replace."ansible.builtin.replace:path:/var/www/leantime/config/configuration.phpregexp: '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 nAfo foi alterado no ficheiro configuration.php" # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name: "SimulaĀṣĀfo: Testa se o
dbDatabase foi alterado no ficheiro configuration.php utilizando o mA³dulo replace."ansible.builtin.replace:path:
/var/www/leantime/config/configuration.php [?12l[?25h[?25l ansible.builtin.replace:path:
/var/www/leantime/config/configuration.phpregexp: 'dbDatabase=""'replace:
'dbDatabase="leantime_database"'check_mode: yesregister: conffailed when: false - name: "Teste: a variável 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 nAfo foi alterado no ficheiro configuration.php" # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name: "SimulaçÃfo: Testa se o
dbPassword foi alterado no ficheiro configuration.php utilizando o módulo 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 n\( \tilde{A} \) foi alterado no ficheiro configuration.php" # A configura\( \tilde{A} \) \( \tilde{A} \) do site leantime necessita que
seja criado um site através de um ficheiro de [?12l[?25h[?25l # A configuração do site leantime necessita que seja
criado um site através de um ficheiro de # configuração, dentro das pasta do apache2. Deve existir um ficheiro de
configura ħ Äfo do # leantime em (/etc/apache2/sites-available # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "SimulaçÃfo: Obtem
informação sobre o ficheiro /etc/apache2/sites-available/leantime.conf"stat:path: "/etc/apache2/sites-
available/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem
as permissÃues certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.isreg- ficheiro.stat.mode == "0755" -
ficheiro.stat.pw name == "root" - ficheiro.stat.gr name == "www-data" success msg: "SUCESSO: Permissões
correctas"fail msg: "ERRO: Permissões incorrectas" # O site deve estar ativo no apache. Este teste vai verificar se o site
se encontra ativo # https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name:
"Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf"stat:path:
"/etc/apache2/sites-enabled/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-
enabled/leantime.conf existe e tem as permissµes certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.islnk-
\label{eq:ficheiro.stat.mode} \begin{tabular}{ll} ficheiro.stat.mode == "0777" - ficheiro.stat.pw_name == "root" [?121[?25h[?25177root" [?121[?25h[?25178M-1]]]]] & the property of the prop
ficheiro.stat.islnk [?12l[?25h[?25l78M- ficheiro.stat.exists [?12l[?25h[?25l78Mthat: [?12l[?25h[?25l78Massert: [?12l[?25h[?
25178M- name: "Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?" [?121]?
25h[?25l78M[?12l]?25h[?25l78Mregister: ficheiro [?12l]?25h[?25l78Mpath: "/etc/apache2/sites-enabled/leantime.conf" [?
12l[?25h[?25l78Mstat: [?12l[?25h[?25l78M- name: "Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-
enabled/leantime.conf" [?121[?25h[?25178M #
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat_module.html [?12l[?25h[?25l78M # O site deve estar
ativo no apache. Este teste vai verificar se o site se encontra ativo [?12l[?25h[?25l78M[?12l[?25h[?25l78Mfail_msg: "ERRO:
```

Permissões incorrectas" [?12l[?25h[?25l78Msuccess_msg: "SUCESSO: Permissões correctas" [?12l[?25h[?25l78M-

```
\label{eq:ficheiro.stat.pw_name} \texttt{== "www-data" [?12l]?25h[?25l78M-ficheiro.stat.pw\_name \texttt{== "root" [?12l]?25h[?25l78M-ficheiro.stat.pw\_name)]} \\
ficheiro.stat.mode == "0755" [?12l[?25h[?25l78M-ficheiro.stat.isreg [?12l[?25h[?25l78M-ficheiro.stat.exists [?12l[?25h[?25l78M-ficheiro.stat.exists [?12l]?25h[?25l78M-ficheiro.stat.exists [?12l]?25h[?25l7
25178Mthat: [?121]?25h[?25178Massert: [?121]?25h[?25178M- name: "Teste: O ficheiro /etc/apache2/sites-
available/leantime.conf existe e tem as permissµes certas?" [?12l[?25h[?25l78M[?12l[?25h[?25l78Mregister: ficheiro [?
"Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-available/leantime.conf" [?121[?25h[?25178M #
Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat_module.html [?12l[?25h[?25l78M # leantime
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[?25lata"[?12l[?25h[?25l [?12l[?25h[?1049l [?11>[?2004l]0;admlocal@devOps:
~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule login INFO Running default > login Welcome to
Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-72-generic x86 64) * Documentation: https://help.ubuntu.com * Management:
https://landscape.canonical.com * Support: https://ubuntu.com/advantage System information as of Tue May 25 20:56:10
UTC 2021 System load: 0.26 Processes: 130 Usage of /: 7.8% of 38.71GB Users logged in: 0 Memory usage: 31% IPv4
address for enp0s3: 10.0.2.15 Swap usage: 0% IPv4 address for enp0s8: 172.28.128.21 * Super-optimized for small spaces
- read how we shrank the memory footprint of MicroK8s to make it the smallest full K8s around.
https://ubuntu.com/blog/microk8s-memory-optimisation *** System restart required *** Last login: Tue May 25 20:54:44
2021 from 10.0.2.2 ]0;vagrant@ubuntu-20: ~vagrant@ubuntu-20:~$ sudo /i*i-i ]0;root@ubuntu-20: ~root@ubuntu-20:~#
ls /etc/apache2/sites-available/- /etc/apache2/sites-available/a /etc/apache2/sites-available/l /etc/apache2/sites-available/h
/etc/apache2/sites-available/ /etc/apache2/sites-available/ ls-alh: command not found ]0;root@ubuntu-20: ~root@ubuntu-
20:~# ls-alh /etc/apache2/sites-available/[1@ total 24K drwxr-xr-x 2 root root 4.0K May 25 18:57 . drwxr-xr-x 8 root root
4.0K May 20 21:19 .. -rw-r--r-- 1 root root 1.4K Apr 13 2020 000-default.conf -rw-r--r-- 1 root root 6.2K Apr 13 2020 default-
ssl.conf -rwxr-xr-x 1 root root 320 May 25 18:57 leantime.conf ]0;root@ubuntu-20: ~root@ubuntu-20:~# rm leals -alh
/etc/apache2/sites-available/[1@r[1@mleantime.conf]0;root@ubuntu-20: ~root@ubuntu-20:~# rm /etc/apache2/sites-
available/leantime.conf ls -alh /etc/apache2/sites-available/ [1@ ///////e/n/abled/ total 8.0K drwxr-xr-x 2 root root 4.0K May
25 20:49 drwxr-xr-x 8 root root 4.0K May 20 21:19 lrwxrwxrwx 1 root root 35 May 20 21:19 000-default.conf ->
./sites-available/000-default.conf lrwxrwxrwx 1 root root 42 May 25 20:49 teantime.comf -> [8]
                       e.comf ]0;root@ubuntu-20: ~root@ubuntu-20:~# ls -alh /etc/apache2/sites-
enabled/[1@r[1@mleantime.conf]0;root@ubuntu-20: ~root@ubuntu-20:~# exit logout]0;vagrant@ubuntu-20:
~vagrant@ubuntu-20:~$ exit logout Connection to 127.0.0.1 closed. ]0;admlocal@devOps:
\sim/leantime_ansibleadmlocal@devOps:\sim/leantime_ansible$_nano_tasks/tasks.yml [?2004h[?1049h[?7h[?1h=[?1h=[?25l[A]]]]] And tasks/tasks.yml
ler... ][ 168 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 servi\( \tilde{A} \) 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 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 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, på;gina 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: "{{
password leantime }} "priv: "leantime database.*:ALL"host: localhoststate: present - name: "Faz o download do software
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 # Apųs
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: 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:
/var/www/leantime/config/configuration.php regexp: "{{ item.regexp }}" replace: "{{ item.line }}"with_items:- regexp: 'dbUser="" line: 'dbUser="" line: 'dbUser="" line: 'dbDatabase="leantime_database" -
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 pásta /etc/apache2/sites-availableansible.builtin.template:src: leantime.template.j2dest: /etc/apache2/sites-
available/leantime.confowner: root group: www-data mode: 0755force: falsefile"Cria um link simbólico para o ficheiro
leantime.conf na pasta /etc/apache/sites-enabled"fileetc/apache2/sites-available/leantime.confetc/apache2/sites-
enabled/leantime.confrootroot [?12l[?25h[?25lgroup: rootmode: '0755'state: link [?12l[?25h[?25l78Mowner: root [?12l[?
25h[?25l78Mdest: /etc/apache2/sites-enabled/leantime.conf [?12l[?25h[?25l78Msrc: /etc/apache2/sites-
```

```
available/leantime.conf [?12l[?25h[?25l78Mansible.builtin.file: [?12l[?25h[?25l78M- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled" [?12l[?25h[?25l78M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l78M[?12l[?25h[?
25178Mforce: false [?12l[?25h[?25178Mmode: 0755 [?12l[?25h[?25178Mgroup: www-data [?12l[?25h[?25178Mowner: root [?
12l[?25h[?25l78Mdest: /etc/apache2/sites-available/leantime.conf [?12l[?25h[?25l78Msrc: leantime.template.j2 [?12l[?
25h[?25l78Mansible.builtin.template: [?12l[?25h[?25l78M- name: Copia o template do site para a pásta /etc/apache2/sites-
available [?12l[?25h[?25l78M # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/template module.html [?12l[?25h[?25l78M[?12l[?25h[?
25178Mline: 'dbPassword="{{ password_leantime }}"' [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]?25l]?25l]?25l[?25l]?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?25l[?25l]?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]?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]?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]?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]?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]?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[
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]?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]?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]?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]?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]
12l[?25h[?25lModificado<sup>'</sup>[?12l[?25h[?25l<sup>'</sup>[?12l[?25h[?25l77<sup>'</sup>[?12l[?25h[?25l777<sup>'</sup>[?12l[?25h[?25l M-D Formato DOSM-A
AnexarB Seguran§aC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros Nome do ficheiro onde escrever:
tasks/tasks.yml [?12l[?25h[?25l [ A escrever... ] [ 168 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[?25ls[?12l[?25h[?25ls]?25ls]?12l]?25h[?25l [?12l[?25h[?25lModificado [?12l[?25h[?25ls]]?25h[?25ls]]?25h[?25ls]]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?25h[?25ls]?
25ld \cite{M-M-M-Formato} \cite{M-M-Formato} \cit
escrever... ] [ 168 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 [?25]]]
12l[?25h[?1049l [?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano
tasks/tasks.yml molecule loginconvergeverify 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 estÃ; 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?]
TASK [Teste: as dependencias encontra-se instaladas?]
        \frac{1}{1} = \frac{1}
servi\tilde{A}\S o \ apache2 \ encontra-se \ ativo \ no \ arranque \ no \ sistema, \ e \ est\tilde{A}_i \ iniciado?]
[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': '^max_file\_uploads', 'line': 'max_file\_uploads', 'lin
 '^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 jÃ; 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?]
    { "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:
Obtem informação 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 permissões certas?]
************************************* fatal: [ubuntu-20.04]: FAILED! => { "assertion": "ficheiro.stat.exists", "changed": false,
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/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 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]
    ****************** ok: [ubuntu-20.04] TASK
[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={'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 temporAjria 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 variÃ;veis dbuser, dbpassword e dbdatabase no ficheiro
simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled] *********************************changed: [ubuntu-
20.04] PLAY RECAP
*****<sup>¯</sup>
ubuntu-20.04: ok=16 changed=2 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]
             [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 v\ddot{\mathsf{A}}¡rias op\ddot{\mathsf{A}}§\ddot{\mathsf{A}}µes 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=
{'regexp': '^memory_limit', 'line': 'memory_limit = 2G'}) ok: [ubuntu-20.04] => (item={'regexp': '^max_input_time', 'line': 'memory_limit', 'line': 'm
'max input time = 3600'}) TASK [leantime ansible : Cria a directoria temporAjria 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\ \bar{m}\tilde{A}^3dulo\ replace.]\ ****\ ok:\ [ubuntu-20.04]\ =>\ (item=\{'regexp':\ 'dbUser='''',\ 'line':\ line':\ line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""', 'line':
\label{thm:back} $$ \dots = \end{array} $$ 
ubuntu-20.04: ok=16 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 login INFO
Running default > login Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-72-generic x86 64) * Documentation:
https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/advantage System
information as of Tue May 25 21:00:06 UTC 2021 System load: 0.31 Processes: 135 Usage of /: 7.8% of 38.71GB Users
logged in: 0 Memory usage: 33% IPv4 address for enp0s3: 10.0.2.15 Swap usage: 0% IPv4 address for enp0s8:
172.28.128.21 * Super-optimized for small spaces - read how we shrank the memory footprint of MicroK8s to make it the
smallest full K8s around. https://ubuntu.com/blog/microk8s-memory-optimisation *** System restart required *** Last
login: Tue May 25 20:59:59 2021 from 10.0.2.2 ]0;vagrant@ubuntu-20: ~vagrant@ubuntu-20:~$ sudo -i ]0;root@ubuntu-
20: ~root@ubuntu-20:~# ls -alh /etc/apache2/sites-available/ total 24K drwxr-xr-x 2 root root 4.0K May 25 20:59 . drwxr-
xr-x 8 root root 4.0K May 20 21:19 .. -rw-r--r-- 1 root root 1.4K Apr 13 2020 000-default.conf -rw-r--r-- 1 root root 6.2K Apr
13 2020 default-ssl.conf -rwxrwxrwx 1 root www-data 320 May 25 20:59 leantime.conf ]0;root@ubuntu-20:
~root@ubuntu-20:~# ls -alh /etc/apache2/sites-available///////e/n/a/b/l/e/d/ total 8.0K drwxr-xr-x 2 root root 4.0K May 25
20:59 . drwxr-xr-x 8 root root 4.0K May 20 21:19 .. lrwxrwxrwx 1 root root 35 May 20 21:19 000-default.conf -> ../sites-
available/000-default.conf lrwxrwxrwx 1 root root 42 May 25 20:59 leantime.conf -> /etc/apache2/sites-
available/leantime.conf ]0;root@ubuntu-20: ~root@ubuntu-20:~# stat -c "%a %n" &/etc/&apache2/sites-
available/leantime.conf 777 /etc/apache2/sites-available/leantime.conf ]0;root@ubuntu-20: ~root@ubuntu-20:~# stat -c
"%a %n" /etc/apache2/sites-available/leantime.conf [1@e[1@n[1@a[1@b[1@l[1@e[1@d 777 /etc/apache2/sites-
enabled/leantime.conf ]0;root@ubuntu-20: ~root@ubuntu-20:~# exit logout ]0;vagrant@ubuntu-20: ~vagrant@ubuntu-
20:~$ exit logout Connection to 127.0.0.1 closed. ]0;admlocal@devOps:
\textcolor{red}{\sim} / leantime\_ansible admlocal@devOps:\textcolor{red}{\sim} / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?1h=[?25l[1]]]]] / leantime\_ansible admlocal@devOps:\textcolor{red}{\sim} / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?1h=[?25l[1]]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?1049h[?7h[?2]]] / leantime\_ansible \$ nano molecule / default / [?2004h[?204]] / leantime\_ansible \$ nano molecule / default / [?2004h[?204]] / leantime\_ansible \$ nano molecule / default / [?2004h[?204]] / leantime\_ansible \$ nano molecule / default / [?2004h[?204]] / leantime\_ansible \$ nano molecule / default / [?2004h[?204]] / leantime\_ansible /
 <mark>"molecule/default/" é uma pasta ]</mark> GNU nano 4.8 Novo buffer ^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 [?12l[?25h[?25lModificado v[?12l[?25h[?25lGravar buffer modificado? S Sim N Não
  Cancelar[?12l[?25h[?25l[?12l[?25h[?25] [?12l[?25h[?1049] [?1]>[?2004]]0;admlocal@devOps:
~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ nano molecule/default/verify.yml [?2004h[?1049h[?7h[?1h=[?
1h=[?25l[ A ler... ][ 302 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§Â£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:
Variáveisinclude_vars:file: ../../vars/main.yml- name: "Simulação: Atualizar a cache do sistema"apt:update_cache:
truecache_valid_time: 3600check_mode: trueregister: estado- name: "teste: a cache encontra-se actualizada?"assert:that:-
not estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem actualizações
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 estÃ; atualizado"
fail msg: "ERRO: Existem actualiza As Apes pendentes" - name: "Teste: a cache encontra-se atualizada?" assert: that: - not
estado.changedsuccess msg: "SUCESSO: A cache estÃ; atualizada"fail msg: "ERRO: Existem atualizações pendentes" -
name: "Simulação: testa se as aplicações 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 inspiração:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service module.html- name: "SimulaçÃfo: Testar se o
servi\(\tilde{A}\)\section apache2 se encontra instalado, iniciado e ativo no arrangue"service:name: apache2state: startedenabled:
truecheck mode: true [?12l[?25h[?25lenabled: trueO servi§o apache2 encontra-se ativo no arranque no sistema, e estÂ;
iniciado?"O serviÂ$o apache2 estÂ; correctamente instalado e inicia com o arranque do sistema"O serviÂ$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"recurseregister: caminho php ini #
```

```
Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "Simulação: Ativa
a opção file_uploads no ficheiro php.ini, utilizando o módulo lineinfile."ansible.builtin.lineinfile:path: "{{
caminho php ini.files[0].path }}"regexp: "{{ 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" [?12l[?25h[?25l78line: "post_max_size = 2G"- regexp: "^memory limit"line: "memory limit = 2G"-
regexp: "^max_input_time" line: "max_input_time = 3600"As linhas do php.ini encontram-se alteradas ?"ficheiro php.ini foi
alterado com sucesso" Algumas alterações ao ficheiro php.ini não tiveram sucesso" O site deve existir na pasta
/var/www/leantime. Este teste visa determinar se a pasta # existe e se temas permissµes certas # Fonte de inspira§Â£o:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: Obtem
informação sobre a pastas /var/www/leantime" stat: path: "/var/www/leantime"register: pasta - name: "Teste: A pasta
/var/www/leantime existe e tem as permissões 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:
Permissões correctas no site leantime "fail msg: "ERRO: Permissões incorrectas no site leantime ou site não existente"
# Outro dos requesitos é a existência de uma base de dados para o site. [?12l[?25h[?25l # Outro dos requesitos é a
existÃancia 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 não. # Fonte de inspiração: https://serverfault.com/questions/173978/from-a-shell-script-
how-can-i-check-whether-a-mysql-database-exists- name: "Simulação: Verifica se é necessÃ;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 jÃ; se encontra criada"fail_msg: "ERRO: Não existe a base de dados leantime_database" # Teste: O
download do software leantime deve ser possÂvel, a partir do site do leantime- name: "Simulação e Teste: Verifica se o
endereço git para a versão 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 existÃancia deste ficheiro com as permissões certas indica que o processo de unzip correu
bem Documenta \~A\S\~A£o\ oficial\ em:\ https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat\_module.htmloories.pdf
ficheiro /var/www/leantime/config/configuration.php"/config/configuration.php"ficheiro ficheiro
/var/www/leantime/config/configuration.php existe e tem as permissões 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: Permissões correctas e ficheiro configuration.php
existente" fail msg: "ERRO: Permissões incorrectas ou ficheiro configuration.php não existente" # Teste: O ficheiro
/var/www/leantime/config/configuration.php necessita de ser alterado. # As variÃ; veis dbuser, dbDatabase, e dbPassword
necessitam de estar configuradas. # Por simulação o sistema vai determinar se estas estão configuradas com o valor
esperado. # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name:
"Simulação: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo
replace."ansible.builtin.replace:path: /var/www/leantime/config/configuration.phpregexp: 'dbUser=""' replace: 'dbUser=""
\label{login_leantime} \end{subarrange} \begin{subarrange}[l]{ll} 
- conf is not changed - conf is not failed success_msg: "SUCESSO: O dbUser foi alterado no ficheiro
configuration.php"fail_msg: "ERRO: O dbUser nA£o foi alterado no ficheiro configuration.php" # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name: "Simulação: Testa se o
dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace."ansible.builtin.replace:path:
/var/www/leantime/config/configuration.php [?12l[?25h[?25l ansible.builtin.replace:path:
/var/www/leantime/config/configuration.phpregexp: 'dbDatabase=""'replace:
'dbDatabase="leantime_database"'check_mode: yesregister: conffailed_when: false - name: "Teste: a vari¡vel 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 nAfo foi alterado no ficheiro configuration.php" # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace_module.html- name: "SimulaħĀ£o: Testa se o
dbPassword foi alterado no ficheiro configuration, php utilizando o módulo 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" # A configuração do site leantime necessita que
seja criado um site através de um ficheiro de [?12l[?25h[?25l # A configuração do site leantime necessita que seja
criado um site através de um ficheiro de # configuração, dentro das pasta do apache2. Deve existir um ficheiro de
configura Á§ Áfo do # leantime em (/etc/apache2/sites-available # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "SimulaçÃfo: Obtem
informação sobre o ficheiro /etc/apache2/sites-available/leantime.conf"stat:path: "/etc/apache2/sites-
available/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem
as permissões certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.isreg- ficheiro.stat.mode == "0755" -
ficheiro.stat.pw_name == "root" - ficheiro.stat.gr_name == "www-data" success_msg: "SUCESSO: Permissões
correctas" fail msg: "ERRO: PermissÃues incorrectas" # O site deve estar ativo no apache. Este teste vai verificar se o site
se encontra ativo # https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name:
"Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf"stat:path:
"/etc/apache2/sites-enabled/leantime.conf" \ register: ficheiro-name: "Teste: O \ ficheiro/etc/apache2/sites-enabled/leantime.conf" \ register: ficheiro-name: "Teste: O \ ficheiro-name
enabled/leantime.conf existe e tem as permissµes certas?"assert:that: - ficheiro.stat.exists - ficheiro.stat.islnk-
ficheiro.stat.mode == "0777" - ficheiro.stat.pw\_name == "root" \cite{Continuous of the continuous of
ficheiro.stat.islnk [?12l[?25h[?25l78M-ficheiro.stat.exists [?12l[?25h[?25l78Mthat: [?12l[?25h[?25l78Massert: [?12l[?25h[?25l78M]
25178M- name: "Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissµes certas?" [?121]?
25h[?25l78M[?12l[?25h[?25l78Mregister: ficheiro [?12l[?25h[?25l78Mpath: "/etc/apache2/sites-enabled/leantime.conf" [?
12l[?25h[?25l78Mstat: [?12l[?25h[?25l78M- name: "Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-
enabled/leantime.conf" [?12l[?25h[?25l78M #
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html [?12l[?25h[?25l78M # O site deve estar
ativo no apache. Este teste vai verificar se o site se encontra ativo [?12l[?25h[?25l78M[?12l[?25h[?25l78Mfail msg: "ERRO:
Permissões incorrectas" [?12l[?25h[?25l78Msuccess msg: "SUCESSO: Permissões correctas" [?12l[?25h[?25l78M-
ficheiro.stat.gr_name == "www-data" [?12l[?25h[?25l78M- ficheiro.stat.pw_name == "root" [?12l[?25h[?25l78M-
ficheiro.stat.mode == "0755" \ [?12l] ?25h \ [?25l78M-ficheiro.stat.isreg \ [?12l] \ [?25h] ?25h \ [?25l78M-ficheiro.stat.exists \ [?12l] ?25h \ [?25l78M-ficheiro.stat.exists \ [?12l] \ [?25h] \ [?25l78M-ficheiro.stat.exists \ [?12l] \ [?25l78M-ficheiro.stat.exists \ [?25l78M-ficheiro.stat.exists \ [?25l78M-ficheiro.stat.exists \ [?25l78M-ficheiro.stat.exists \ [?25l78M-ficheiro.stat.exi
```

25178Mthat: [?121]?25h[?25178Massert: [?121]?25h[?25178M- name: "Teste: O ficheiro /etc/apache2/sites-

```
available/leantime.conf\ existe\ e\ tem\ as\ permiss\~A\mu es\ certas?"\ [?12l[?25h[?25l78M[?12l[?25h[?25l78Mregister:\ ficheiro\ [?12l[?25h[?25l78M]]]])])
12l[?25h[?25l78Mpath: "/etc/apache2/sites-available/leantime.conf" [?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]?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]?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]?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]?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]?2
25lModificado"[?12l[?25h[?25l"[?12l[?25h[?25l77"[?12l[?25h[?25l777"[?12l[?25h[?25h[?25l M-D Formato DOSM-A AnexarB
SegurançaC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros Nome do ficheiro onde escrever:
molecule/default/verify.yml [?12l[?25h[?25l [ A escrever... ] [ 302 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[?251 [?121]?25h[?10491 [?11>]?20041]0;admlocal@devOps:
~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano molecule/default/verify.yml molecule loginverify 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 estÃ; 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?]
serviço apache2 encontra-se ativo no arranque no sistema, e estÃ; iniciado?]
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': '^max_file\_uploads', 'line': 'max_file\_uploads', 'lin
^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?]
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso" } TASK [Simulação: Obtem informação sobre a pastas
A pasta /var/www/leantime existe e tem as permissões certas?]
   [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]
[Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
[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
20.041 TASK [Teste: O dbPassword foi alterado?]
"changed": false, "msg": "SUCESSO: O \ dbPassword \ foi \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula \tilde{A} \S \tilde{A} fo: \ foi \
ok: [ubuntu-20.04] TASK [Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem as permissões certas?]
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
               "changed": false, "msg": "SUCESSO: PermissAues correctas" } PLAY RECAP
ubuntu-20.04: ok=30 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 INFO Verifier completed
successfully. ]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://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]
'^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 temporAjria leantime e a directoria de apache
leantimel ***************
                   ********************* ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'}) ok: [ubuntu-
20.04] => (item={'path': 'yar/www/leantime'}) TASK [leantime ansible : Cria a base de dados de mysgl 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={'reqexp': 'dbUser=""', 'line':
'dbUser="leantimeDBadmin"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbDatabase=""", 'line':
'dbDatabase="leantime_database"'}) ok: [ubuntu-20.04] => (item={'regexp': 'dbPassword=""', 'line':
ubuntu-20.04: ok=16\ changed=0\ unreachable=0\ failed=0\ skipped=0\ rescued=0\ ignored=0\ INFO\ Idempotence\ completed
successfully, ]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ exit exit
```