```
[0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano tasks/tasks.yml [?2004h[?1049h[?
7h[?1h=[?1h=[?25l[ A ler... ][ 173 linhas lidas ] GNU nano 4.8 tasks/tasks.yml ^G Ajuda^O Gravar^W Procurar^K Cortar
txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txt ^X Sair^R Carregar^\ Substituir ^U Colar txt ^T Ortografia
 Ir p/ linha M-E RefazerM-6 Copiar txt ---- name: Atualiza a cache (equivalente a apt update)apt:update cache:
truecache_valid_time: 3600- name: "Atualiza o sistema operativo"apt:upgrade: safe- name: "Instalar as dependencias
necessária ao programa leantime"apt:pkg:- mc- screen- git- apache2- mysql-server- php- php-mysql- php-ldap- php-cli-
php-soap- php-json- graphviz- php-xml- php-gd- php-zip- libapache2-mod-php- php-dev- libmcrypt-dev- gcc- make- autoconf-
libc-dev [?12l[?25h[?25l - autoconf - libc-dev - pkg-config- pwgen- curl- unzip - zip - php-mbstring- expect- net-tools -
python3-mysqldb - python3-apt- python3-pycurl # Fonte de inspiração:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service module.html- name: "Instala o serviço apache2
no arranque do sistema"service:name: apache2state: startedenabled: true # Fonte:
https://www.mydailytutorials.com/using-ansible-find-module-search-filesfolder- name: "Rotina Auxiliar: Procura o caminho
do ficheiro php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurse: trueregister: caminho_php_ini # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "Ativa várias opções no
ficheiro\ php.ini,\ utilizando\ o\ m\tilde{A}^3 dulo\ line infile." ansible. builtin. line infile: path:\ "\{\{\ caminho\_php\_ini.files[0].path\ \}\}" regexp:
"{{ item.regexp }}"line: "{{ item.line }}" [?12l[?25h[?25lregexp: "{{ item.regexp }}"line: "{{ item.line }}"with_items:regexp: "^file_uploads" line: "file_uploads = 1"regexp: "^upload_max_filesize" line: "upload_max_filesize = 1G"regexp: "^max_file_uploads" line: "max_file_uploads = 20"regexp: "^post_max_size" line: "post_max_size = 2G"regexp:
 "^memory_limit" line: "memory_limit = 2G"- regexp: "^max_input_time" line: "max_input_time = 3600" # Fonte:
https://docs.ansible.com/ansible/2.7/modules/file module.html- name: Cria a directoria temporÃ;ria leantime e a directoria
de apache leantimefile:path: "{{ item.path }}"state: directory mode: 0755 owner: www-data group: www-datawith_items:-
path: "/tmp/leantime"- path: "/var/www/leantime" # Fonte: Ansible for DevOps - Server and configuration management for
humans de Jeff Geerling, 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: "\{\{(12l(?25h(?25lmysql\_user:namlogin\_leantime \ ] \}) \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \}) \} \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \}) \} \\ "password: "\{\{(12l(?25lmysql\_user:namlogin\_leantime \ ] \} \} \} \\ "password: "\{\{(12l(?25l
password_leantime }} "priv: "leantime_database.*:ALL"host: localhoststate: present - name: "Faz o download do software
leantime a partir do repositA3rio git"get url:url: https://github.com/Leantime/leantime/releases/download/{{
versao_leantime }}/Leantime-{{ versao_leantime }}.zipdest: /tmp/leantimemode: 0755 # O ficheiro Leantime-versao.zip
necessita de ser descomprimido- name: Descomprime o software leantimeunarchive: src: "/tmp/leantime/Leantime-{{
versao leantime }}.zip" dest: "/var/www/leantime" owner: www-datagroup: www-datamode: 0755remote src: true # Após
a descompressão, se o ficheiro configuration.php não existir, este necessita de ser # criado a partir do ficheiro
configuration.sample.php # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/copy module.html-
name: Copia o ficheiro de configura A§ A£o configuration.sample.phpansible.builtin.copy: src:
/var/www/leantime/config/configuration.sample.php dest: /var/www/leantime/config/configuration.php owner: www-
datagroup: www-data mode: '0755' remote_src: trueforce: false [?12l[?25h[?25l remote_src: trueforce: false # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace module.html- name: Altera as variáveis dbuser,
dbpassword e dbdatabase no ficheiro configuration.php utilizando o módulo replace.ansible.builtin.replace:path:
\label{lem:config} $$ \operatorname{login_leantime} : "{\{ item.regexp }\}" replace: "{\{ item.line }\}" with items:- regexp: "dbUser=""| line: 'dbUser=""| line: 'dbUser=
regexp: 'dbPassword=""' line: 'dbPassword="{{ password_leantime }}"' # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/template module.html- name: Copia o template do site
para a pÄįsta /etc/apache2/sites-availableansible.builtin.template:src: leantime.template.j2dest: /etc/apache2/sites-
available/leantime.confowner: root group: www-data mode: 0644 force: false # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled"ansible.builtin.file:src: /etc/apache2/sites-
available/leantime.confdest: /etc/apache2/sites-enabled/leantime.confstate: link # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled" ansible.builtin.file: path: /etc/apache2/sites-
available/leantime.conf owner: rootgroup: www-datamode: '0777' [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]?12l]?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25l]?12l[?25l]?25h[?25l]?12l[?25l]?25h[?25l]?25h[?25l]?25h[?25l]?25h[?2
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25h[?25le[?12l[?25h[?25ln[?12l[?25h[?25la[?12l[?25h[?25lb[?12l[?25h[?25ll[?12l[?25h[?25le[?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?25h[?25le]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25h[?25le]?12l]?12l[?25le]?12l[?25le]?12l]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l]?12l[?25le]?12l[?25le]?12
25l/[?12l[?25h[?25l0[?12l[?25h[?25l0[?12l[?25h[?25l0]?12l]?25h[?25l-[?12l[?25h[?25ld[?12l[?25h[?25le[?12l[?25h[?25lf]?25lc]?25lc]]])]))))
12l[?25h[?25la[?12l[?25h[?25lu[?12l]?25h[?25lu]?12l]?25h[?25lt[?12l]?25h[?25lt[?12l]?25h[?25lt]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?25h[?25lc]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25h[?25lc]?12l]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12l[?25lc]?12
25h[?25ln[?12l[?25h[?25lf[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l
[?12l[?25h[?25l [?12l[?25h[?25ls[?12l[?25h[?25lt[?12l[?25h[?25lt[?12l[?25h[?25lt[?12l[?25h[?25lt[?12l]?25h[?25lt[?12l]?25h[?25lt[?12l]?25h[?25lt]]?25h[?25lt]]]]]]]]]]
 25h[?25l [?12l[?25h[?25lab[?12l[?25h[?25ls[?12l[?25h[?25le[?12l[?25h[?25ln[?12l[?25h[?25lt[?12l[?25h[?25lt]?12l]
```

```
251 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... ] [ 178 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$ 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 ./tasks/tasks.yml 175:3 error syntax error: expected
'<document start>', but found '<block sequence start>' (syntax) CRITICAL Lint failed with error code 1
]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule lintnano tasks/tasks.yml [?
2004h[?1049h[?7h[?1h=[?25l[ A ler... ][ 178 linhas lidas ] GNU nano 4.8 tasks/tasks.yml ^G Ajuda^O Gravar^W
Procurar^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txt ^X Sair^R Carregar^\ Substituir ^U
Colar txt ^T Ortografia ^ Ir p/ linha M-E RefazerM-6 Copiar txt --- name: Atualiza a cache (equivalente a apt
update)apt:update_cache: truecache valid_time: 3600- name: "Atualiza o sistema operativo"apt:upgrade: safe- name:
"Instalar as dependencias necessária ao programa leantime"apt:pkg:- mc- screen- git- apache2- mysql-server- php- php-
mysql- php-ldap- php-cli- php-soap- php-json- graphviz- php-xml- php-gd- php-zip- libapache2-mod-php- php-dev- libmcrypt-
dev- gcc- make- autoconf- libc-dev [?12l[?25h[?25l - autoconf - libc-dev - pkg-config- pwgen- curl- unzip - zip - php-mbstring-
expect- net-tools - python3-mysqldb - python3-apt- python3-pycurl # Fonte de inspiraA§A£o:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service\_module.html-\ name: "Instala\ o\ servi\~A\$o\ apache 2
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 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 temporAjria 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 mysgl para o leantime" mysgl db:
"db=leantime database state=present" - name: "Cria o utilizador para a base de dados
leantime "mysql user:namlogin leantime }}" [?12l[?25h[?25lmysql user:namlogin leantime }}" password: "{{
password leantime }} "priv: "leantime database.*:ALL"host: localhoststate: present - name: "Faz o download do software
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: 0644 force: false # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbólico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled"ansible.builtin.file:src: /etc/apache2/sites-
available/leantime.confdest: /etc/apache2/sites-enabled/leantime.confstate: link # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html [?12l[?25h[?25l # Fonte:
https://docs.ansible.com/ansible/latest/collections/ansible/builtin/file module.html- name: "Cria um link simbųlico para o
ficheiro leantime.conf na pasta /etc/apache/sites-enabled" ansible.builtin.file: path: /etc/apache2/sites-
available/leantime.conf owner: rootgroup: www-datamode: '0777' - name: "Apaga o link 000-default.conf na pasta sites-
enabled do apache2"ansible.builtin.file:path: /etc/apache2/sites-enabled/000-default.confstate: absent [?12l[?25h[?
251 Modificado - name: "Apaga o link 000-default.conf na pasta sites-enabled do apache2" [?121[?25h[?251]?121]?25h[?251]
ansible.builtin.file: [?12l[?25h[?25l[?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-default.conf [?12l[?25h[?25l[?12l[?
25h[?25l state: absent [?12l[?25h[?25l [?12l[?25h[?25l78 M[?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-
default.conf[?12l[?25h[?25l [?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-default.conf[?12l[?25h[?25l [?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-default.conf]?12l[?25h[?25l [?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-default.conf]?12l[?25h[?25l path: /etc/apache2/sites-enabled/000-default.conf]?12l[?25l path: /etc/apache2/sites-enabled/000-default.conf]?12l[?25l path: /etc/apache2/sites-enabl
251[?121[?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 [?121[?25h[?25] [ A escrever... ] [ 178 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 deploy
Usage: molecule [OPTIONS] COMMAND [ARGS]... Try "molecule --help" for help. Error: No such command "deploy".
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule deployconverge 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]
     ^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 temporária leantime e a directoria de apache
************************************ 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]
                          [ubuntu-20.04] TASK [leantime ansible: Altera as variAjveis 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': 'dbPassword=""',
[leantime_ansible : Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled]
 ***************************** ok: [ubuntu-20.04] TASK [leantime_ansible : Apaga o link 000-default.conf na pasta sites-enabled
ubuntu-20.04: ok=18 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 ]0;admlocal@devOps:
 ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule idempotence INFO default scenario test matrix:
idempotence INFO Performing prerun... INFO Using .cache/roles/nunomourinho.leantime ansible symlink to current
repository in order to enable Ansible to find the role using its expected full name. INFO Added
ANSIBLE ROLES PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles INFO Running default >
idempotence PLAY [Converge]
TASK [Gathering Facts]
[ubuntu-20.04] TASK [Include leantime ansible]
 [leantime ansible: Atualiza a cache (equivalente a apt update)]
                 \frac{1}{1} \frac{1}
[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-\overline{20.04}] => (item={'regexp': '^post_max_size', 'line': 'post_max_size = 2G'}) ok: [ubuntu-\overline{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]
```

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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':
\label{thm:back} $$ \dots = \end{array} $$ 
[leantime_ansible : Cria um link simbólico para o ficheiro leantime.conf na pasta /etc/apache/sites-enabled]
ubuntu-20.04: ok=18 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 INFO Idempotence completed
successfully. ]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible$ molecule verify INFO default
scenario test matrix: verify INFO Performing prerun... INFO Using .cache/roles/nunomourinho.leantime ansible symlink to
current repository in order to enable Ansible to find the role using its expected full name. INFO Added
ANSIBLE_ROLES_PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles INFO Running default >
verify INFO Running Ansible Verifier PLAY [Infraestrutura conduzida por testes]
[ubuntu-20.04] TASK [Simulação: Atualizar a cache do sistema]
   ok: [ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: A cache est\tilde{A}_i atualizada" } TASK [Atualizar o sistema
20.04] TASK [teste: o sistema operativo encontra-se atualizado?]
                                                                       "msg": "SUCESSO: O sistema operativo estÃ; atualizado" } TASK [Teste: a cache encontra-se atualizada?]
"changed": false, "msg": "SUCESSO: A cache estÃ; atualizada" } TASK [Simulação: testa se as aplicações
TASK [Teste: as dependencias encontra-se instaladas?]
serviço apache2 encontra-se ativo no arranque no sistema, e está iniciado?]
                    *********************************** ok: [ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: O serviço
apache2 estÃ; correctamente instalado e inicia com o arranque do sistema" } TASK [Rotina Auxiliar> Procura o caminho
[Simula \tilde{A} \S \tilde{A} \pounds o: Ativa\ a\ op \tilde{A} \S \tilde{A} \pounds o\ file\_uploads\ no\ ficheiro\ php.ini,\ utilizando\ o\ m \tilde{A}^3 dulo\ line in file.]
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', 'l
\label{eq:continuous_post_max_size} $$ '^post_max_size = 2G' ) ok: [ubuntu-20.04] => (item={'regexp': '^memory_limit', 'line': 'post_max_size', 
'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?]
A pasta /vai/www/leantime chisto o tom as porting 15 construction of the construction 
[ubuntu-20.04] => { "changed": false, "msg": "SUCESSO: A base de dados leantime_database jÃ; se encontra criada" }
TASK [Simula§Â£o e Teste: Verifica se o endere§o git para a vers£o de leantime existe]
                             [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissAµes certas?]
[ubuntu-20.04] TASK [Teste: a variável dbDatabase foi alterada?]
      false, "msg": "SUCESSO: O \ dbDatabase \ foi \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§\~A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ \} \ TASK \ [Simula\~A§§A£o: Testa \ se \ o \ alterado \ no \ ficheiro \ configuration.php" \ ]
20.04] TASK [Teste: O dbPassword foi alterado?]
"changed": false, "msg": "SUCESSO: O dbPassword foi alterado no ficheiro configuration.php" } TASK [Simulação:
```

Obtem informa \tilde{A} § \tilde{A} £o sobre o ficheiro /etc/apache2/sites-available/leantime.conf] ************************************
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf] ***********************************
enabled/leantime.conf existe e tem as permissões certas?] ************************************
$ubuntu-20.04: ok=32\ changed=0\ unreachable=0\ failed=0\ skipped=0\ rescued=0\ ignored=0\ INFO\ Verifier\ completed\\ successfully.\]0; admlocal@devOps: $$\sim$/leantime_ansibleadmlocal@devOps: $$\sim$/leantime_ansible$$$