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]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano vermolecule/default/verify.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 334 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 estĂ; 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§Âµes 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. changed success 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:
"Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque"service:name:
apache2state: startedenabled: truecheck mode: true
[?12][?25h[?25lenabled: trueO serviço apache2 encontra-se ativo no arranque no sistema, e estÃ; iniciado?"O serviço
apache2 estA; correctamente instalado e inicia com o arranque do sistema"O serviÁ§o apache2 nÁ£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"
[?12][?25h]?25178line: "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 altera A§A pes ao ficheiro php.ini nA fo tiveram sucesso" O site deve existir na pasta
/var/www/leantime. Este teste visa determinar se a pasta
# existe e se temas permissões certas
# Fonte de inspiração: 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"
data"success msg: "SUCESSO: PermissAµes correctas no site leantime"fail msg: "ERRO: PermissAµes incorrectas no site
leantime ou site não existente"
# Outro dos requesitos \tilde{A}© a exist\tilde{A}ancia 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 determinar se ela existe ou nÃfo.
# 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 necessário 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 j\(\text{A}\); se encontra criada"fail msg: "ERRO: N\(\text{A}\)fo 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§o git para a vers£o 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
permissµes certas indica que o processo de unzip correu bemDocumentaç£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"ficheiroO 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: PermissAues incorrectas ou ficheiro configuration.php nAfo existente"
# Teste: O ficheiro /var/www/leantime/config/configuration.php necessita de ser alterado.
# As variáveis dbuser, dbDatabase, e dbPassword necessitam de estar configuradas.
# Por simula§Ã£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: "SimulaçÃfo:
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Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo replace."ansible.builtin.replace:path:

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/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: "Simulação:
Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o m\tilde{A}^3\bar{d}ulo 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 msq: "ERRO: O dbDatabase nÃfo 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 nA£o foi alterado no ficheiro
configuration.php"
 # A configura§Â£o do site leantime necessita que seja criado um site através de um ficheiro de
[?12][?25h[?25] # 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 configuração do
# leantime em (/etc/apache2/sites-available
 # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: 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 == "0777" - 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 permissões certas?"assert:that: -
ficheiro.stat.exists - ficheiro.stat.islnk- ficheiro.stat.mode == "0777" - ficheiro.stat.pw_name == "root"
[?12l[?25h[?25l-ficheiro.stat.mode == "0777" - ficheiro.stat.pw_name == "root" - ficheiro.stat.gr_name == "root"
success_msg: "SUCESSO: Permissões correctas" fail_msg: "ERRO: Permissões incorrectas"
# https//docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: Obtem
informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf"stat:path: "/etc/apache2/sites-enabled/000-default.conf"stat:path: "
default.conf" register: ficheiro
- name: "Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?"assert:that:not ficheiro.stat.exists
- name: "SimulaħÄ£o: Activa o mijdulo mod_rewrite no apache"apache2_module:name: rewritestate: present
check mode: true
register: estado
- name: "Simulação: Activa o módulo mod rewrite no apache"apache2 module: name: rewritestate: present
check mode: trueregister: estado
    name: "Teste: o mod_rewrite do apache encontra-se ativo?"assert:that:- not estado.changed
[?12l[?25h[?25lthat:- not estado.changedsuccess msg: "SUCESSO: mod rewrite encontra-se instalado e ativo"fail msg:
"ERRO: mod_rewrite não instalado ou não ativo!"
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25 \ln[?12 \ln[?25 \ln[]25 \ln[?25 \mu]]]]]]])])])])]
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  25h[?25le[?12l[?25h[?25ls[?12l[?25h[?25la[?12l[?25h[?25le[?12l[?25h[?25ls[?12l[?25h[?25ls[?12l[?25h[?25ls[?12l[?25h[?25ls]]?25ls]]]]])])))))))))))))))))))))
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  25la[?12l[?25h[?25ld[?12l[?25h[?25la[?12l[?25h[?25l.[?12l[?25h[?25la]]?25la]]?25h[?25la]]?25h[?25la]]?25la[?12l[?25h[?25la]]?25la[?12l[?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l[?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l[?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l[?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25h[?25la]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]]?25la[?12l]
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aprendido nas aulas de Testes de Penetração e Desenvolvimento de Exploits[?12l[?25h[?25l[?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
[?12l[?25h[?25l[?12l[?25h[?1049]
[?11>[?20041]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
vamllint.
ansible-lint
Loading custom .yamllint config file, this extends our internal yamllint config.
]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]
TASK [VariÃ;veis]
ok: [ubuntu-20.04]
TASK [Simulação: Atualizar a cache do sistema]
changed: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
fatal: [ubuntu-20.04]: FAILED! => {
"assertion": "not estado.changed",
"changed": false,
"evaluated_to": false,
"msg": "ERRO: Existem actualizações pendentes"
PLAY RECAP
ubuntu-20.04: ok=2 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/verify.yml
]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]
TASK [VariÃ;veis]
ok: [ubuntu-20.04]
```

TASK [Simulação: Atualizar a cache do sistema]

```
ok: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]
ok: [ubuntu-20.04]
TASK [teste: o sistema operativo encontra-se atualizado?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
          *****************************
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Simulação: testa se as aplicações dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04]
TASK [Teste: as dependencias encontra-se instaladas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque]
ok: [ubuntu-20.04]
TASK [Teste: O servi§o apache2 encontra-se ativo no arranque no sistema, e estÃ; iniciado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
*******************
ok: [ubuntu-20.04]
TASK [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': '^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?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
TASK [Simulação: Obtem informação sobre a pastas /var/www/leantime]
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
```

```
"changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
ok: [ubuntu-20.04]
TASK [Teste: A base de dados leantime database existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msq": "SUCESSO: A base de dados leantime database ¡Ã¡ se encontra criada"
TASK [Simulação e Teste: Verifica se o endereço git para a versão de leantime existe]
ok: [ubuntu-20.04]
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msq": "SUCESSO: PermissAues correctas e 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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbPassword foi alterado?]
                      ***********************************
ok: [ubuntu-20.04] =  {
"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]
  ****<del>*</del>***********
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
************
ok: [ubuntu-20.04]
```

```
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: mod rewrite encontra-se instalado e ativo"
TASK [Simulação: Tenta fazer login na aplicação com o utilizador criado]
*******************
fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was:
'login website' is undefined\n\nThe error appears to be in '/home/admlocal/leantime ansible/molecule/default/verify.yml':
line 344, column 5, but may\nbe elsewhere in the file depending on the exact syntax problem.\n\nThe offending line
appears to be:\n\n # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content\n - name:
\"Simulação: Tenta fazer login na aplicação com o utilizador criado\"\n ^ here\nThis one looks easy to fix. It seems
that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the same kind of
quote. For instance:\n\n when: \"ok\" in result.stdout\n\nCould be written as:\n\n when: \"ok\" in result.stdout'\n\nOr
equivalently:\n\n when: \"'ok' in result.stdout\"\n"}
PLAY RECAP
ubuntu-20.04: ok=35 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
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano vars/vamain.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 5 linhas lidas ] GNU nano 4.8 vars/main.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
--- login_leantime: leantimeDBadminpassword_leantime: "#S3gr3d0S3cr3t0#"versao_leantime: v2.1.7
[?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25]]
[?12][?25h[?25] [?12][?25h[?25] [?12][?25h[?25] [?12][?25h[?25] [?12][?25h[?25]
25h[?25ln[?12l[?25h[?25ln[?12l]?25h[?25ln[?12l]?25h[?25ln[?25ln[?25ln]?25ln]?25ln[?12l]?25h[?25ln]?25ln[?12l]?25h[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25ln[?25ln]?25l
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25h[?25ln[?12l[?25h[?25ln[?12l[?25h[?25lm[?12l[?25h[?25ln[?12l[?25h[?25ln[?12l[?25h[?25lm[?12l[?25h[?25lm[?12l[?25h[?25lm]?12l]?25h[?25lm]]]]]))]))))))))))))))))))
25h[?25l \ [?12l[?25h]?25le[?12l[?25h]?25lm]?12l[?25h]?25la[?12l[?25h]?25li[?12l[?25h]?25ll[?12l]?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?12l[?25h]?25ll[?12l]?25h[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]?25ll]?25ll[?25ll]?25ll[?25ll]?25ll[?25ll]
25lc[?12][?25h[?25lo[?12][?25h[?25lm[?12][?25h[?25l"[?12][?25h[?25l
[?12l[?25h[?25l[?12l[?25h[?25l login_website: "my_name@my_email.com"]
[?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: vars/main.yml [?12l[?25h[?25l [ A escrever... ] [ 7 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
[?12][?25h[?25] M-D Formato DOSM-A AnexarB SegurançaC Cancelar M-M Formato MacM-P Prepor T P/ ficheiros
Nome do ficheiro onde escrever: vars/main.yml [?12l[?25h[?25l [ A escrever... ][ 7 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
```

[?12][?25h[?25][?12][?25h[?1049]

```
[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano vars/main.yml molecule
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]
TASK [VariA;veis]
ok: [ubuntu-20.04]
TASK [Simulação: Atualizar a cache do sistema]
ok: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
              ***********************************
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]
ok: [ubuntu-20.04]
TASK [teste: o sistema operativo encontra-se atualizado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
ok: [ubuntu-20.04] =   {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Simulação: testa se as aplicações dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04]
TASK [Teste: as dependencias encontra-se instaladas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [SimulaĀṣĀ£o: Testar se o serviĀṣo apache2 se encontra instalado, iniciado e ativo no arranque]
ok: [ubuntu-20.04]
TASK [Teste: O serviço apache2 encontra-se ativo no arrangue no sistema, e estÃ; iniciado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
ok: [ubuntu-20.04]
TASK [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': '^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 ?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
TASK [SimulaA§A£o: Obtem informaA§A£o sobre a pastas /var/www/leantime]
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
***************
ok: [ubuntu-20.04]
TASK [Teste: A base de dados leantime database existe?]
      ok: [ubuntu-20.04] = > {
"changed": false,
"msq": "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]
ok: [ubuntu-20.04]
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msq": "SUCESSO: PermissAues correctas e 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?]
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbPassword foi alterado?]
         ok: [ubuntu-20.04] = > {
```

```
"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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: PermissÂues correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
************
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
**********************************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: mod_rewrite encontra-se instalado e ativo"
TASK [SimulaħÄ£o: Tenta fazer login na aplicaħÄ£o com o utilizador criado]
*********************
[WARNING]: The value True (type bool) in a string field was converted to 'True' (type string). If this does not
look like what you
expect, quote the entire value to ensure it does not change.
ok: [ubuntu-20.04]
TASK [Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso]
fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was: 'dict
object' has no attribute 'set cookie'\n\nThe error appears to be in
'/home/admlocal/leantime ansible/molecule/default/verify.yml': line 353, column 5, but may\nbe elsewhere in the file
depending on the exact syntax problem.\n\nThe offending line appears to be:\n\n\n - name: \"Simulação: Obtem a
página showMyCalendar para testar uma página com o login efetuado com sucesso\"\n ^ here\nThis one looks easy to
fix. It seems that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the
same kind of quote. For instance:\n\ when: \"ok\" in result.stdout\n\ Could be written as:\n\ when: \"ok\" in
result.stdout'\n\nOr equivalently:\n\n when: \"'ok' in result.stdout\"\n"}
```

**CRITICAL** Ansible return code was 2, command was: ansible-playbook --inventory

ubuntu-20.04: ok=36 changed=0 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0

"changed": false,

PLAY RECAP

/home/admlocal/.cache/molecule/leantime ansible/default/inventory --skip-tags molecule-notest,notest /home/admlocal/leantime ansible/molecule/default/verify.vml ]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ molecule verifynano vars/main.yml molecule verifylintnano molecule/default/verify.yml  $\begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular} 1049h \end{tabular} \begin{tabular}{ll} \end{tabular} 1149h \end{tabular} \begin{tabular}{ll} \end{tabular} 1250 \begin{tabular}{ll} \end{tabular} \begin{tabular}{ll} \end{tabular} 12004h \end{tabular} \begin{tabular}{ll} \end{tabular} 12004h \end{tabular} \begin{tabular}{ll} \end{tabular} \begin{tabular}{ll$ ^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 estÃ; atualizado" fail msg: "ERRO: Existem actualiza§Âµes 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 - mysgl-server- phpphp-mysgl- 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 - curlunzipzip- 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 msq: "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: "Simulação: 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: "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" # Outro dos requesitos  $\tilde{A}$ © a exist $\tilde{A}$ ancia 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.

- 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" data"success msg: "SUCESSO: PermissAµes correctas no site leantime"fail msg: "ERRO: PermissAµes incorrectas no site leantime ou site nA£o existente"

- # Esta base de dados deve ser criada, logo tem de ser testada para determinar se ela existe ou nA£o.
- # Fonte de inspira§Â£o: https://serverfault.com/questions/173978/from-a-shell-script-how-can-i-check-whether-a-mysqldatabase-exists- name: "Simulação: Verifica se é necessário 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: "Simula§Â£o e Teste: Verifica se o endere§o git para a vers£o 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 permissµes certas indica que o processo de unzip correu bemDocumentaç£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"ficheiroO 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: 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 vari $\tilde{A}_i$ 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 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 mÃ<sup>3</sup>dulo 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 variÃ; 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 nÃfo 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 m $\tilde{A}^3$ dulo 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 nA£o foi alterado no ficheiro configuration.php" # A configuração do site leantime necessita que seja criado um site através de um ficheiro de [?12l[?25h[?25] # 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 configuração do # leantime em (/etc/apache2/sites-available # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-available/leantime.conf"stat:path: "/etc/apache2/sitesavailable/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 == "0777" - 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/sitesenabled/leantime.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?" assert: that: ficheiro.stat.exists - ficheiro.stat.islnk- ficheiro.stat.mode == "0777" - ficheiro.stat.pw name == "root" [?12l[?25h[?25l-ficheiro.stat.mode == "0777" - ficheiro.stat.pw\_name == "root" - ficheiro.stat.gr\_name == "root" success msg: "SUCESSO: Permissões correctas" fail msg: "ERRO: Permissões incorrectas" # https//docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name: "Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf"stat:path: "/etc/apache2/sites-enabled/000default.conf" register: ficheiro - name: "Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NAfO existe?" assert: that:not ficheiro.stat.exists - name: "Simulação: Activa o módulo mod rewrite no apache"apache2 module:name: rewritestate: present check mode: true register: estado - name: "Simulação: Activa o módulo mod rewrite no apache"apache2 module: name: rewritestate: present check mode: trueregister: estado - name: "Teste: o mod rewrite do apache encontra-se ativo?" assert:that:- not estado.changed [?12l[?25h[?25lthat:- not estado.changedsuccess msg: "SUCESSO: mod rewrite encontra-se instalado e ativo"fail msg: "ERRO: mod rewrite não instalado ou não ativo!" # Teste: Verificar se o sistema se encontra devidamente instalado e configurado. Se a base de dados estiver correctamente configurada e se o administrador do # sistema estiver configurado, deve ser possÃvel fazer login ao sistema sem problemas. # Este teste tem como objetivo verificar se é possÃvel fazer o login # Através do BurpSuite (https://portswigger.net/burp), aprendido nas aulas de Testes de Penetração e Desenvolvimento de Exploits # foi realizado um debug da sessÃfo de login. Com base nessa sessÃfo a fase de Login encontra-se aqui replicada. # Ã" necessÃ;rio gravar a cockie de sessão. A pÃ;gina oficial do Ansible contem um erro que é resolvido com a seguinte... # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content- name: "Simulação: Tenta fazer login na aplicação com o utilizador criado"uri:url: http://localhostmethod: POST body: "username={{ login website }}&password={{ password website }}&redirectUrl:=/&login=Login" status code: 200follow redirects: trueregister: paginalogin - name: "Simula $\tilde{A}$ § $\tilde{A}$ £o: Obtem a p $\tilde{A}$ ¡gina showMyCalendar para testar uma p $\tilde{A}$ ¡gina com o login efetuado com sucesso"uri: url: http://localhost/calendar/showMyCalendar method: GETheaders: Cookie: "{{ paginalogin.set\_cookie }}" return\_content: yespaginawebExiste o texto editCompanySettings na página?""'password' not in paginaweb.content" [?12l[?25h[?25l"'password' not in paginaweb.content"- "'editCompanySettings' in paginaweb.content"success\_msg: "SUCESSO: Login com sucesso. Utilizador e palavra passe iniciais correctamente criados fail msg: "ERRO: Não foi

possivel fazer login! O utilizador ou palavra passe não foram criados com sucesso!"

[?12l[?25h[?25l78M- name: "Teste: Existe o texto editCompanySettings na página?"

[?12l[?25h[?25l78M[?12l[?25h[?25l78Mregister: paginaweb

[?12l[?25h[?25178MCookie: "{{ paginalogin.set\_cookie }}"

[?12l[?25h[?25l78Massert:

[?12l[?25h[?25l78Mheaders:

[?12l[?25h[?25l78Mreturn\_content: yes

```
[?12l[?25h[?25l78Mmethod: GET
[?12l[?25h[?25l78Murl: http://localhost/calendar/showMyCalendar
[?12l[?25h[?25l78Muri:
[?12l[?25h[?25l78M- name: "Simulação: Obtem a pÃ;gina showMyCalendar para testar uma pÃ;gina com o login
efetuado com sucesso"
[?12l[?25h[?25l78M[?12l[?25h[?25l78Mregister: paginalogin
[?12l[?25h[?25l78Mfollow redirects: true
[?12l[?25h[?25l78Mstatus code: 200
[?12l[?25h[?25l78Mbody: username={{ login website }}&password={{ password website
}}&redirectUrl:=/&login=Login"
[?12l[?25h[?25l78Mmethod: POST
[?12l[?25h[?25l78Murl: http://localhost
[?12l[?25h[?25l78Muri:
[?12l[?25h[?25l78M- name: "Simulação: Tenta fazer login na aplicação com o utilizador criado"
[?12l[?25h[?25l78M # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content
[?12l[?25h[?25l78 # Através do BurpSuite (https://portswigger.net/burp), aprendido nas aulas de Testes de
Penetração e Desenvolvimento de Exploits
# foi realizado um debug da sessÃfo de login. Com base nessa sessÃfo a fase de Login encontra-se aqui replicada.
# Ã" necessÃ;rio gravar a cockie de sessão. A pÃ;gina oficial do Ansible contem um erro que é resolvido com a
sequinte...
[?12l[?25h[?25l78
M # Este teste tem como objetivo verificar se é possÃvel fazer o login
[?12l[?25h[?25l78
M # sistema estiver configurado, deve ser possÃvel fazer login ao sistema sem problemas.
[?12][?25h[?25]78
M # Se a base de dados estiver correctamente configurada e se o administrador do
[?12][?25h[?25]78
M # Teste: Verificar se o sistema se encontra devidamente instalado e configurado.
[?12l[?25h[?25l78
M[?12l[?25h[?25l78Mfail msg: "ERRO: mod rewrite nÃfo instalado ou nÃfo ativo!"
[?12l[?25h[?25l78
Msuccess msg: "SUCESSO: mod rewrite encontra-se instalado e ativo"
[?12l[?25h[?25l78
M- not estado.changed
[?12l[?25h[?25l78
Mthat:
[?12][?25h[?25]78
Massert:
[?12l[?25h[?25l78
M- name: "Teste: o mod rewrite do apache encontra-se ativo?"
[?12l[?25h[?25l78
M[?12l[?25h[?25l78Mregister: estado
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l
[?12l[?25h[?25l[?12l[?25h[?25l[?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[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]]]]]]
25l[?12l[?25h[?25l
25l[?12l[?25h[?25l
[?12l[?25h[?25l78
- name: "Teste: Existe o texto editCompanySettings na pÃ;gina?"
[?12l[?25h[?25l78
assert:
[?12l[?25h[?25l78
[?12l[?25h[?25l78
- "'password' not in paginaweb.content"
[?12][?25h[?25]78
- "'editCompanySettings' in paginaweb.content"
[?12l[?25h[?25l78
success msg: "SUCESSO: Login com sucesso. Utilizador e palavra passe iniciais correctamente criados"
[?12][?25h[?25]78
fail msq: "ERRO: Não foi possivel fazer login! O utilizador ou palavra passe não foram criados com sucesso!"
[?12][?25h[?25]78
```

INFO Performing prerun... INFO Using .cache/roles/nunomourinho.leantime\_ansible symlink to current repository in order to enable Ansible to find

[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ nano

[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?1049l

molecule/default/verify.yml molecule verify INFO default scenario test matrix: verify

```
the role using its expected full name.
INFO Added ANSIBLE ROLES PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles
INFO Running default > verify
INFO Running Ansible Verifier
PLAY [Infraestrutura conduzida por testes]
TASK [VariA; veis]
ok: [ubuntu-20.04]
TASK [SimulaA§A£o: Atualizar a cache do sistema]
ok: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]
ok: [ubuntu-20.04]
TASK [teste: o sistema operativo encontra-se atualizado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
  ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Simulação: testa se as aplicações dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04]
TASK [Teste: as dependencias encontra-se instaladas?]
************************************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [SimulaĀṣĀ£o: Testar se o serviĀṣo apache2 se encontra instalado, iniciado e ativo no arranque]
***********
ok: [ubuntu-20.04]
TASK [Teste: O servi§o apache2 encontra-se ativo no arrangue no sistema, e estÂ; iniciado?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
     ****<del>*</del>*************
ok: [ubuntu-20.04]
TASK [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': '^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?]

```
******************************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
TASK [SimulaA§A£o: Obtem informaA§A£o sobre a pastas /var/www/leantime]
*************************************
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
******************
ok: [ubuntu-20.04]
TASK [Teste: A base de dados leantime database existe?]
            ok: [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]
ok: [ubuntu-20.04]
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: Permissões correctas e 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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbPassword foi alterado?]
ok: [ubuntu-20.04] = > {
"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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: PermissÂues correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: PermissÃues correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NAfO existe?]
***********************************
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
*******************
ok: [ubuntu-20.04]
TASK [Simulação: Activa o módulo mod rewrite no apache]
**********************
ok: [ubuntu-20.04]
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
               ***********************************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: mod rewrite encontra-se instalado e ativo"
TASK [SimulaħÄ£o: Tenta fazer login na aplicaħÄ£o com o utilizador criado]
[WARNING]: The value True (type bool) in a string field was converted to 'True' (type string). If this does not
look like what you
expect, quote the entire value to ensure it does not change.
ok: [ubuntu-20.04]
TASK [Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso]
fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was: 'dict
object' has no attribute 'set cookie'\n\nThe error appears to be in
'/home/admlocal/leantime ansible/molecule/default/verify.yml': line 353, column 5, but may\nbe elsewhere in the file
depending on the exact syntax problem.\n\nThe offending line appears to be:\n\n\n - name: \"Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso\"\n ^ here\nThis one looks easy to
fix. It seems that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the
same kind of quote. For instance:\n\ when: \"ok\" in result.stdout\n\ Could be written as:\n\ when: \"ok\" in
result.stdout' \n\n equivalently: \n\n when: \"ok' in result.stdout\"\n"}
PLAY RECAP
```

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 verifylint INFO default scenario test matrix: dependency, lint

ubuntu-20.04: ok=36 changed=0 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0

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 lintverifynano molecule/default/verify.yml [?2004h[?1049h[?7h]?1h=[?1h=[?25l[ A ler...][ 368 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 Refazer M-6 Copiar txt # Tutorial de inspira§Ã£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: Vari\(\tilde{A}\); veisinclude vars: file: ../../vars/main.yml- name: "Simula\(\tilde{A}\) \(\tilde{A}\) fo: 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?" [?121[?25h[?25] - 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§Âµes 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 - curlunzipzip- php-mbstring- expect- net-tools - python3-mysqldb - python3-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: "Simulação: 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 serviÁso apache2 nÁ£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[?25178]] 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 altera A§A pes ao ficheiro php.ini nA fo tiveram sucesso" O site deve existir na pasta /var/www/leantime. Este teste visa determinar se a pasta # existe e se temas permissões certas # Fonte de inspiração: 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.existspasta.stat.isdir - pasta.stat.mode == "0755"- pasta.stat.pw name == "www-data" - pasta.stat.gr name == "www-data" data"success msg: "SUCESSO: PermissAues correctas no site leantime"fail msg: "ERRO: PermissAues 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 existência 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-mysqldatabase-exists- name: "Simulação: Verifica se é necessário 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 possÃvel, 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 bemDocumentação oficial em:

# https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat\_module.htmlo ficheiro /var/www/leantime/config/configuration.php"/config/configuration.php"ficheiroO 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 nÃfo 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 simulaçÃfo o sistema vai determinar se estas estÃfo configuradas com o valor esperado. # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace\_module.html- name: "SimulaçÃfo: 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

- $configuration.php"fail\_msg: "ERRO: O \ dbUser \ n\tilde{A}£o \ foi \ alterado \ no \ ficheiro \ configuration.php" \\ \textit{\# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/replace\_module.html- \ name: "Simulação: Testa se o \ dbDatabase foi \ alterado \ no \ ficheiro \ configuration.php \ utilizando \ o \ m\tilde{A}³dulo \ replace."ansible.builtin.replace:path: \ /var/www/leantime/config/configuration.php$
- [?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 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[?25] # 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 configuração do
- # configuración, dentro das pasta do apachez. Deve existir um fichero de co # leantime em (/etc/apache2/sites-available
- # Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat\_module.html- name: "Simulação: 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 == "0777" 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
- $\label{latest/collections/ansible/builtin/stat_module.html-name: "Simula \~A§\~A£o: Obtem informa \~A§\~A£o sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf" stat:path: "/etc/apache2/sites-enabled/leantime.conf" register: ficheiro$
- name: "Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?" assert: that: -ficheiro.stat.exists ficheiro.stat.islnk- ficheiro.stat.mode == "0777" ficheiro.stat.pw\_name == "root" [?12l[?25h[?25l- ficheiro.stat.mode == "0777" ficheiro.stat.pw\_name == "root" ficheiro.stat.gr\_name == "root" success msg: "SUCESSO: Permissões correctas" fail msg: "ERRO: Permissões incorrectas"
- # https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat\_module.html- name: "Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf"stat:path: "/etc/apache2/sites-enabled/000-default.conf" register: ficheiro
- name: "Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NAfO existe?" assert: that:not ficheiro.stat.exists
- name: "Simulação: Activa o módulo mod\_rewrite no apache"apache2\_module:name: rewritestate: present check\_mode: true register: estado
- name: "Simulação: Activa o módulo mod\_rewrite no apache"apache2\_module: name: rewritestate: present check mode: trueregister: estado
- name: "Teste: o mod rewrite do apache encontra-se ativo?"assert:that:- not estado.changed
- [?12l[?25h[?25lthat:- not estado.changedsuccess\_msg: "SUCESSO: mod\_rewrite encontra-se instalado e ativo"fail\_msg: "ERRO: mod\_rewrite nÃfo instalado ou nÃfo ativo!"
- # Teste: Verificar se o sistema se encontra devidamente instalado e configurado. Se a base de dados estiver correctamente configurada e se o administrador do
- # sistema estiver configurado, deve ser possÃvel fazer login ao sistema sem problemas.
- # Este teste tem como objetivo verificar se é possÃvel fazer o login
- # Através do BurpSuite (https://portswigger.net/burp), aprendido nas aulas de Testes de Penetração e Desenvolvimento de Exploits
- # foi realizado um debug da sessão de login. Com base nessa sessão a fase de Login encontra-se aqui replicada.
- #  $\tilde{A}$ " necess $\tilde{A}$ ¡rio gravar a cockie de sess $\tilde{A}$ £o. A p $\tilde{A}$ ¡gina oficial do Ansible contem um erro que  $\tilde{A}$ © resolvido com a seguinte...
- # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content- name: "Simulação: Tenta fazer login na aplicação com o utilizador criado"uri:url: http://localhostmethod: POST body: "username={{ login\_website }}&password={{ password\_website }}&redirectUrl:=/&login=Login" status\_code: 200follow\_redirects: trueregister: paginalogin
- name: "Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso"uri: url: http://localhost/calendar/showMyCalendar method: GETheaders: Cookie: "{{ paginalogin.set cookie}}"

```
return_content: yespaginawebExiste o texto editCompanySettings na página?""'password' not in paginaweb.content"
[?12][?25h[?25]"password' not in paginaweb.content"- "'editCompanySettings' in paginaweb.content"success msg:
"SUCESSO: Login com sucesso. Utilizador e palavra passe iniciais correctamente criados"fail msg: "ERRO: NĀ£o foi
possivel fazer login! O utilizador ou palavra passe não foram criados com sucesso!"
[?12l[?25h[?25l[?12l[?25h[?25l78Massert:
[?12l[?25h[?25l78M- name: "Teste: Existe o texto editCompanySettings na página?"
[?12][?25h[?25]78M[?12][?25h[?25]78Mregister: paginaweb
[?12l[?25h[?25l78Mreturn content: yes
[?12l[?25h[?25l78MCookie: "{{ paginalogin.set cookie }}"
[?12l[?25h[?25l78Mheaders:
[?12l[?25h[?25l78Mmethod: GET
[?12][?25h[?25]78Murl: http://localhost/calendar/showMyCalendar
[?12l[?25h[?25l78Muri:
[?12][?25h[?25178M- name: "Simulação: Obtem a pÃ;qina showMyCalendar para testar uma pÃ;qina com o loqin
efetuado com sucesso"
[?12l[?25h[?25l78M[?12l[?25h[?25l78Mregister: paginalogin
[?12][?25h[?25]78Mfollow redirects: true
[?12l[?25h[?25l78Mstatus code: 200
[?12l[?25h[?25l78Mbody: "username={{ login website }}&password={{ password website
[?12l[?25h[?25l78Mmethod: POST
[?12][?25h[?25]78Murl: http://localhost
[?12l[?25h[?25l78Muri:
[?12l[?25h[?25l78M- name: "Simulação: Tenta fazer login na aplicação com o utilizador criado"
[?12l[?25h[?25l78M # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content
[?12l[?25h[?25l78M # Ã" necessÃ;rio gravar a cockie de sessÃfo. A pÃ;gina oficial do Ansible contem um erro que é
resolvido com a seguinte...
[?12][?25h[?25178M # foi realizado um debug da sessÃfo de login. Com base nessa sessÃfo a fase de Login encontra-se
agui replicada.
[?12][?25h[?25h[?25178M # Através do BurpSuite (https://portswigger.net/burp), aprendido nas aulas de Testes de
Penetração e Desenvolvimento de Exploits
[?12][?25h[?25]78
M # Este teste tem como objetivo verificar se é possÃvel fazer o login[?12l[?25h[?25l78
# Se a base de dados estiver correctamente configurada e se o administrador do
# sistema estiver configurado, deve ser possÃvel fazer login ao sistema sem problemas.[?12l[?25h[?25l78
M # Teste: Verificar se o sistema se encontra devidamente instalado e configurado.[?12l[?25h[?25178
M[?12l[?25h[?25l78Mfail msg: "ERRO: mod rewrite nA£o instalado ou nA£o ativo!"[?12l[?25h[?25l78
Msuccess msg: "SUCESSO: mod rewrite encontra-se instalado e ativo"[?12l[?25h[?25l78
M- not estado.changed[?12l[?25h[?25l78
Mthat:[?12l[?25h[?25l78
Massert:[?12l[?25h[?25l78
M- name: "Teste: o mod rewrite do apache encontra-se ativo?"[?12l[?25h[?25l78
M[?12l[?25h[?25l78Mregister: estado[?12l[?25h[?25l
[?121][?25h[?251][?121][?25h[?251][?121][?25h[?251][?121][?25h[?251][?121][?25h[?251]]
251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251]?
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l
[?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25]]]
[?12l[?25h[?25l78
- name: "Teste: Existe o texto editCompanySettings na páqina?"[?12l[?25h[?25l78
assert:[?12l[?25h[?25l78
that:[?12l[?25h[?25l78
- "'password' not in paginaweb.content"[?121[?25h[?25178
- "'editCompanySettings' in paginaweb.content"[?121[?25h[?25178
success msg: "SUCESSO: Login com sucesso. Utilizador e palavra passe iniciais correctamente criados"[?12l[?25h[?25l78
```

fail msq: "ERRO: Não foi possivel fazer login! O utilizador ou palavra passe não foram criados com sucesso!"[?121]? 25h[?25178

25|[?12|[?25h[?25] M-D Formato DOSM-A AnexarB SegurançaC Cancelar M-M Formato MacM-P Prepor^T P/ ficheiros [?12l[?25h[?25l[?12l[?25h[?1049]

[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ nano

molecule/default/verify.yml molecule lintverify

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]
TASK [VariA; veis]
ok: [ubuntu-20.04]
TASK [Simula§Â£o: Atualizar a cache do sistema]
ok: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]
ok: [ubuntu-20.04]
TASK [teste: o sistema operativo encontra-se atualizado?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Simulação: testa se as aplicações dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04]
TASK [Teste: as dependencias encontra-se instaladas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque]
ok: [ubuntu-20.04]
TASK [Teste: O servi§o apache2 encontra-se ativo no arranque no sistema, e estÂ; iniciado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
            ok: [ubuntu-20.04]
TASK [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={'reqexp': '^max file uploads', 'line': 'max file uploads = 20'})
ok: [ubuntu-20.04] => (item={'regexp': '^post_max_size', 'line': 'post_max_size = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^memory_limit', 'line': 'memory_limit = 2G'})
ok: [ubuntu-20.04] => (item={'regexp': '^max_input_time', 'line': 'max_input_time = 3600'})
TASK [Teste: As linhas do php.ini encontram-se alteradas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
```

```
}
TASK [Simula§Â£o: Obtem informa§Â£o sobre a pastas /var/www/leantime]
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissµes certas?]
         ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
ok: [ubuntu-20.04]
TASK [Teste: A base de dados leantime database existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msq": "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]
**************
ok: [ubuntu-20.04]
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas e 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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbPassword foi alterado?]
ok: [ubuntu-20.04] =   {
"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?]

```
**********
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
*************
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
"changed": false,
"msg": "SUCESSO: mod rewrite encontra-se instalado e ativo"
TASK [SimulaħÄ£o: Tenta fazer login na aplicaħÄ£o com o utilizador criado]
[WARNING]: The value True (type bool) in a string field was converted to 'True' (type string). If this does not
look like what you
expect, quote the entire value to ensure it does not change.
ok: [ubuntu-20.04]
TASK [Simulação: Obtem a pÃ;gina showMyCalendar para testar uma pÃ;gina com o login efetuado com sucesso]
fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was: 'dict
object' has no attribute 'set cookie'\n\nThe error appears to be in
'/home/admlocal/leantime ansible/molecule/default/verify.yml': line 353, column 5, but may\nbe elsewhere in the file
depending on the exact syntax problem.\n\nThe offending line appears to be:\n\n\n - name: \"SimulaħÄ£o: Obtem a
p\tilde{A}_igina\ showMyCalendar\ para\ testar\ uma\ p\tilde{A}_igina\ com\ o\ login\ efetuado\ com\ sucesso\"\n\ ^here\nThis\ one\ looks\ easy\ to
fix. It seems that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the
same kind of quote. For instance:\n\ when: \"ok\" in result.stdout\n\ Could be written as:\n\ when: \"ok\" in
result.stdout'\n\nOr equivalently:\n\n when: \"'ok' in result.stdout\"\n"}
PLAY RECAP
           ubuntu-20.04: ok=36 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 verifynano
molecule/default/verify.vml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 368 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: Variā; veisinclude vars: file: ../../vars/main.yml- name: "Simulaā§ā£o: 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? [?12|[?25h[?25| In. parág^Y Prim.linha^T Ir para\_txtC Cancelar O Fim parágV Últ. linha Insira nú da linha, nú da coluna: [?12l[?25h[?25l3 [?12l[?25h[?25l5 [?12l[?25h[?25l3 [?12l[?25h[?25l, [?12l[?25h[?25l5 [?12l[?25h[?25l ^O GravarProcurar ^K Cortar txt ^] 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 # Teste: Verificar se o sistema se encontra devidamente instalado e configurado. # Se a base de dados estiver correctamente configurada e se o administrador do # sistema estiver configurado, deve ser possÃvel fazer login ao sistema sem problemas. # Este teste tem como objetivo verificar se é possÃvel fazer o login # Através do BurpSuite (https://portswigger.net/burp), aprendido nas aulas de Testes de Penetração e Desenvolvimento de Exploits # foi realizado um debug da sessÃfo de login. Com base nessa sessÃfo a fase de Login encontra-se aqui replicada. # Å" necess¡rio gravar a cockie de sess£o. A p¡gina oficial do Ansible contem um erro que © resolvido com a sequinte... # Fonte: https://stackoverflow.com/questions/63791689/ansible-looses-cookie-content- name: "Simulação: Tenta fazer login na aplicação com o utilizador criado" uri url: http://localhost method: POSTbody: "username={{ login website }}&password={{ password website }}&redirectUrl:=/&login=Login"status code: 200 follow redirects: trueregister: paginalogin - name: "Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso"uri:url: http://localhost/calendar/showMyCalendarmethod: GETheaders:Cookie: "{{ paginalogin.set cookie }}" return\_content: yespaginawebTExiste o texto editCompanySettings na página?""'password' not in paginaweb.content"-"'editCompanySettings' in paginaweb.content" success msg: "SUCESSO: Login com sucesso. Utilizador e palavra passe iniciais correctamente criados" fail msg: "ERRO: Não foi possivel fazer login! O utilizador ou palavra passe não foram criados com sucesso!" 25h[?25lS[?12l[?25h[?25lModificado[?12l[?25h[?25l""imulação: Tenta fazer login na aplicação com o utilizador criado"[?12l[?25h[?25l[?12l[?25h[?25l 12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?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[?25lo[?12l[?25h[?25ld[?12l[?25h[?25ly[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25l\*[?12l[?25h[?25l\*[?12l]?25h[?12l]?25h[?12l 25l[?12l[?25h[?25l[?12l[?25h[?25l"username={{ login\_website }}&password={{ password\_website }}&redirectUrl:=/&login=Login"[?12l[?25h[?25l[?12l[?25h[?25l [?12l[?25h[?25l [?12l]?25h[?25l [?12|[?25h[?25| [?12|[?25h[?25| [?12|[?25h[?25] [?12|[?25h[?25] [?12|[?25h[?25] [?12|[?25h[?25] [?12|[?25h[?25 25h[?25lo[?12l[?25h[?25ld[?12l[?25h[?25ly[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25l"[?12l[?25h[?25lu[?12l[?25h[?25lu]]?12l[?25lu]]?12l[?25h[?25lu]]?12l[?25lu]?12l[?25lu]]?12l[?25lu]?12l[  $25 \ln[?12 \ln[?25 \ln[?25 \ln[?25 \ln[?25 \ln[?25 \ln[?25 \ln[?12 \ln[?25 \mu]]]]]]])])))])]$  $12l[?25h[?25l\{[?12l[?25h[?25l\{[?12l[?25h[?25l[?25h[?25l[?25h[?25ll[?12l[?25h[?25lo[?12l[?25h[?25lg[?12l[?25h[?25lg]?12l]?25h[?25lg]]]]]))]))))))))))))))))))$ 25h[?25ln[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?12l[?25h[?25lk]?25lk]?25lk]?25lk[?25lk]?25lk[?25lk]?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk[?25lk]?25lk]?25lk[?25lk]?25l25lt[?12l[?25h[?25le[?12l[?25h[?25le[?12l]?25h[?25le[?25h[?25l]]?12l[?25h[?25l]]?12l[?25h[?25l]]?12l[?25h[?25l]]?12l[?25h[?25le[?25le[?25le[?25le]]?12l[?25h[?25le]]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le 25h[?25l{[?12l[?25h[?25l{[?12l[?25h[?25l[?25h[?25lp[?12l[?25h[?25la[?12l[?25h[?25ls[?12l[?25h[?25ls[?12l]?25h[?25ls]]]] 25lw[?12l[?25h[?25lo[?12l[?25h[?25lr[?12l[?25h[?25ld[?12l[?25h[?25lw[?25lw[?12l[?25h[?25lw[?12l[?25h[?25lw[?12l]?25h[?25lw]?12l]?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l[?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25h[?25lw]?12l]?25h[?25lw]?12l[?25lw]?12l[?25lw]?12l]?25h[?25lw]?12l[?25 12l[?25h[?25ls[?12l[?25h[?25li]?12l[?25h[?25lt]?12l[?25h[?25le]?12l[?25h[?25le]?12l[?25h[?25l[?12l[?25h[?25l]?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[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?25le]?12l[?225l[?12l[?25h[?25l [?121[?25h[?251[?121[?25h[?251 [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l-[?12l[?25h[?25l [?12l[?25h[?25ln[?12l[?25h[?25la[?12l[?25h[?25lme]?12l[? 25h[?25l:[?12l:?25h:[?25l:]?para testar uma página com o login efetuado com sucesso"[?12l[?25h[?25l[?12l[?25h[?25l [?12l[?25h[?25l"[?12l]?25h]?25l"]?12l]?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l]?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l]?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l]?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l]?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l[?25h[?25l"]?12l]?25h[?25l"]?12l[?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[?25l"]]?12l[?25h[?25l"]]?12l[?25l"]?12l[?25l"]]?12l[?25h[?25l"]]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25l"]?12l[?25 25l[?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[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]?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]?25h[?25l]?25h[?25l]?25h[?25l]?2 25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]]?12l[?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]]?12l[?25h[?25l[?12l]?25h[?25l]]?12l[?2 25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]]?12l]?25h[?25l]]])]))))))))))))))))))))))paginalogin.set\_cookie }}"[?12l[?25h[?25l[?12l[?25h[?25l]?12l]?25h[?25l] [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l 251[?121[?25h[?251[?121[?25h[?251[?121[?25h[?251]?25h[?251]?251]?251]?121[?25h[?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251[?25h[?251]?251]?251[?25h[?25h[?251]?251]?251[?25h[?25h[?251]?251]?251[?25h[?25h[?25h[?251]?251]?251[?25h[?25h[?25h[?25]?251]?251[?25h[?25h[?25h[?25]?251]?251[?25h[?25h[?25h[?25]?251]?251[?25h[?25h[?25h[?25]?25]?2

M- name: "Teste: o mod\_rewrite do apache encontra-se ativo?"[?121[?25h[?25178

25h[?25l [?12l[?25h[?25l"[?12l[?25h[?25l[?12l[?25h[?25l78

M- not estado.changed[?12l[?25h[?25l78

Mthat:[?12l[?25h[?25l78 Massert:[?12l[?25h[?25l78

12l[?25h[?25l [?12l[?25h[?25l"[?12l[?25h[?25l]?12l[?25h[?25l]?12l[?25h[?25l]?12l]?25h[?25l]?12l[?25h[?25l]

Msuccess msg: "SUCESSO: mod rewrite encontra-se instalado e ativo"[?12l[?25h[?25l78

M[?12l]?25h[?25l78Mfail msg: "ERRO: mod rewrite nA£o instalado ou nA£o ativo!"[?12l]?25h[?25l78

 $[?12][?25h[?25] \ [?12][?25h[?25] \ [?12][?25] \ [?12][?25h[?25] \ [?12][?25]$ 

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register: estado[?12l[?25h[?25l78
Mcheck mode: true[?12l[?25h[?25l[?12l[?25h[?25l
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]]]]]
25lg[?12l[?25h[?25l:[?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]?25l
[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l[?12l]?25h[?25l]]?12l]?25h[?25l[?12l]?25h[?25l]]
necess	ilde{A}irio gravar a cockie de sess	ilde{A}fo. A p	ilde{A}gina oficial do Ansible contem um erro que 	ilde{A}\otimes resolvido com a seguinte...[?
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: molecule/default/verify.yml [?12l[?25h[?25l [ A escrever... ] [ 368 linhas escritas ]^O
Gravar W Procurar K Cortar txt J Justificar C Pos cursor Desfazer M-A Marcar txtX Sair R Carregar Substituir
^U Colar txt ^T Ortografia ^ Ir p/ linha M-E Refazer M-6 Copiar txt
[?12][?25h[?25]
[?121[?25h[?1049]
[?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
vamllint.
ansible-lint
Loading custom .yamllint config file, this extends our internal yamllint config.
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule lintverify
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]
TASK [VariÃ;veis]
              ok: [ubuntu-20.04]
TASK [Simula§Â£o: Atualizar a cache do sistema]
*************************************
ok: [ubuntu-20.04]
TASK [teste: a cache encontra-se actualizada?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]
ok: [ubuntu-20.04]
TASK [teste: o sistema operativo encontra-se atualizado?]
                  ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
***********************************
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [Simulação: testa se as aplicações dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04]
```

```
TASK [Teste: as dependencias encontra-se instaladas?]
        ok: [ubuntu-20.04] =  
"changed": false,
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arrangue]
***********
ok: [ubuntu-20.04]
TASK [Teste: O servi§o apache2 encontra-se ativo no arrangue no sistema, e estÂ; iniciado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
ok: [ubuntu-20.04]
TASK [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': '^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 ?]
ok: [ubuntu-20.04] => {
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
TASK [Simulação: Obtem informação sobre a pastas /var/www/leantime]
ok: [ubuntu-20.04]
TASK [Teste: A pasta /var/www/leantime existe e tem as permissµes certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissµes correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
ok: [ubuntu-20.04]
TASK [Teste: A base de dados leantime database existe?]
                ok: [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]
                  *********
ok: [ubuntu-20.04]
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
************
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
ok: [ubuntu-20.04] =  {
"changed": false,
"msg": "SUCESSO: Permissões correctas e 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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04]
TASK [Teste: O dbPassword foi alterado?]
ok: [ubuntu-20.04] =  {
"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?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [SimulaħÄ£o: Obtem informaħÄ£o sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
ok: [ubuntu-20.04]
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04]
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
ok: [ubuntu-20.04] = > {
"changed": false,
```

"msg": "SUCESSO: mod rewrite encontra-se instalado e ativo"

```
}
TASK [Simulação: Tenta fazer login na aplicação com o utilizador criado]
```

[WARNING]: The value True (type bool) in a string field was converted to 'True' (type string). If this does not look like what you

expect, quote the entire value to ensure it does not change. ok: [ubuntu-20.04]

fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was: 'dict object' has no attribute 'set\_cookie'\n\nThe error appears to be in

'/home/admlocal/leantime\_ansible/molecule/default/verify.yml': line 353, column 5, but may\nbe elsewhere in the file depending on the exact syntax problem.\n\nThe offending line appears to be:\n\n\n - name: \"Simulação: Obtem a página showMyCalendar para testar uma página com o login efetuado com sucesso\"\n ^ here\nThis one looks easy to fix. It seems that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the same kind of quote. For instance:\n\n when: \"ok\" in result.stdout\n\nCould be written as:\n\n when: \"ok\" in result.stdout\n\nOr equivalently:\n\n when: \"ok\" in result.stdout\"\n"}

### PLAY RECAP

ubuntu-20.04: ok=36 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 verify --debug Usage: molecule verify [OPTIONS]

Try "molecule verify --help" for help.

Error: no such option: --debug

 $\label{local} {\tt lo;admlocal@devOps:} {\tt ~/leantime\_ansibleadmlocal@devOps:} {\tt ~/leantime\_ansible$ molecule verify --debug-verify verify verify}$ 

BUG Validating schema /home/admlocal/leantime ansible/molecule/default/molecule.yml.

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

Using /home/admlocal/.cache/molecule/leantime\_ansible/default/ansible.cfg as config file

PLAY [Infraestrutura conduzida por testes]

## TASK [VariÃ;veis]

 $ok: [ubuntu-20.04] => {"ansible_facts": {"login_leantime": "leantimeDBadmin", "login_website": "my_name@my_email.com", "password_leantime": "#S3gr3d0S3cr3t0#", "password_website": "S3cr3tPwd@V3ryS3cret«", "versao_leantime": "v2.1.7"}, "ansible_included_var_files": ["/home/admlocal/leantime_ansible/molecule/default/.../../vars/main.yml"], "changed": false} \\$ 

### TASK [Simulação: Atualizar a cache do sistema]

ok: [ubuntu-20.04] => {"ansible\_facts": {"discovered\_interpreter\_python": "/usr/bin/python3"}, "cache\_update\_time": 1622020250, "cache\_updated": false, "changed": false}

### TASK [teste: a cache encontra-se actualizada?]

## TASK [Atualizar o sistema operativo (equivalente a apt upgrade)]

ok: [ubuntu-20.04] => {"changed": false, "msg": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nCalculating upgrade...\n0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.\n", "stderr": "", "stderr\_lines": [], "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nCalculating upgrade...\n0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.\n", "stdout\_lines": ["Reading package lists...", "Building dependency tree...", "Reading state information...", "Calculating upgrade...", "0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded."]}

```
TASK [teste: o sistema operativo encontra-se atualizado?]
                        ***************************
ok: [ubuntu-20.04] =  
"changed": false,
"msg": "SUCESSO: O sistema operativo estÃ; atualizado"
TASK [Teste: a cache encontra-se atualizada?]
ok: [ubuntu-20.04] => \{
"changed": false,
"msg": "SUCESSO: A cache estÃ; atualizada"
TASK [SimulaĀṣĀ£o: testa se as aplicaĀṣµes dependencia do software leantime se encontram instaladas]
ok: [ubuntu-20.04] => {"cache update time": 1622020250, "cache updated": false, "changed": false}
TASK [Teste: as dependencias encontra-se instaladas?]
ok: [ubuntu-20.04] = > \{
"changed": false.
"msg": "SUCESSO: As dependencias estavam instaladas"
TASK [Simulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arrangue]
ok: [ubuntu-20.04] => {"changed": false, "enabled": true, "name": "apache2", "state": "started", "status":
 {"ActiveEnterTimestamp": "Tue 2021-05-25 23:38:38 UTC", "ActiveEnterTimestampMonotonic": "326035816",
"ActiveExitTimestampMonotonic": "0", "ActiveState": "active", "After": "remote-fs.target systemd-tmpfiles-setup.service
basic.target network.target sysinit.target nss-lookup.target systemd-journald.socket -.mount system.slice", "AllowIsolate":
"no", "AllowedCPUs": "", "AllowedMemoryNodes": "", "AmbientCapabilities": "", "AssertResult": "yes", "AssertTimestamp":
"Tue 2021-05-25 23:38:37 UTC", "AssertTimestampMonotonic": "325941816", "Before": "multi-user.target
shutdown.target", "BlockIOAccounting": "no", "BlockIOWeight": "[not set]", "CPUAccounting": "no", "CPUAffinity": "",
"CPUAffinityFromNUMA": "no", "CPUQuotaPerSecUSec": "infinity", "CPUQuotaPeriodUSec": "infinity",
"CPUSchedulingPolicy": "0", "CPUSchedulingPriority": "0", "CPUSchedulingResetOnFork": "no", "CPUShares": "[not set]",
"CPUUsageNSec": "["not set]", "CPUWeight": "["not set]", "CacheDirectoryMode": "0755", "CanIsolate": "no", "CanReload": "["not set]", "CPUUsageNSec": "["not set]", "CacheDirectoryMode": "0755", "CanIsolate": "["not set]", "CPUUsageNSec": "["not set]", "["not s
"yes", "CanStart": "yes", "CanStop": "yes", "CapabilityBoundingSet": "cap\_chown \ cap\_dac\_override \ cap\_dac\_read\_search \ (a) \ (b) \ (c) \ (
cap fowner cap fsetid cap kill cap setgid cap setuid cap setpcap cap linux immutable cap net bind service
cap_net_broadcast cap_net_admin cap_net_raw cap_ipc_lock cap_ipc_owner cap_sys_module cap_sys_rawio cap_sys_chroot
cap_sys_ptrace cap_sys_pacct cap_sys_admin cap_sys_boot cap_sys_nice cap_sys_resource cap_sys_time cap_sys_tty_config
cap mknod cap lease cap audit write cap audit control cap setfcap cap mac override cap mac admin cap syslog
cap wake alarm cap block suspend cap audit read", "CleanResult": "success", "CollectMode": "inactive",
"ConditionResult": "yes", "ConditionTimestamp": "Tue 2021-05-25 23:38:37 UTC", "ConditionTimestampMonotonic":
"325941816", "ConfigurationDirectoryMode": "0755", "Conflicts": "shutdown.target", "ControlGroup":
"/system.slice/apache2.service", "ControlPID": "0", "DefaultDependencies": "yes", "DefaultMemoryLow": "0",
"DefaultMemoryMin": "0", "Delegate": "no", "Description": "The Apache HTTP Server", "DevicePolicy": "auto",
"Documentation": "https://httpd.apache.org/docs/2.4/", "DynamicUser": "no", "EffectiveCPUs": "", "EffectiveMemoryNodes":
"", "Environment": "APACHE_STARTED_BY_SYSTEMD=true", "ExecMainCode": "0", "ExecMainExitTimestampMonotonic": "0", "ExecMainPID": "28018", "ExecMainStartTimestamp": "Tue 2021-05-25 23:38:38 UTC",
"ExecMainStartTimestampMonotonic": "326035787", "ExecMainStatus": "0", "ExecReload": "{ path=/usr/sbin/apachectl;
argv[]=/usr/sbin/apachectl graceful; ignore errors=no; start time=[n/a]; stop time=[n/a]; pid=0; code=(null);
status=0/0 }", "ExecReloadEx": "{ path=/usr/sbin/apachectl; argv[]=/usr/sbin/apachectl graceful; flags=; start time=
[n/a]; stop time=[n/a]; pid=0; code=(null); status=0/0 }", "ExecStart": "{ path=/usr/sbin/apachectl;
argv[]=/usr/sbin/apachectl start; ignore errors=no; start time=[n/a]; stop time=[n/a]; pid=0; code=(null); status=0/0
\label{lem:continuous} \label{lem:continuou
 [n/a] ; pid=0 ; code=(null) ; status=0/0 \} ", "ExecStop": "\{ path=/usr/sbin/apachectl ; argv[]=/usr/sbin/apachectl stop ; argv[]=/usr/sbin/
ignore_errors=no; start_time=[n/a]; stop_time=[n/a]; pid=0; code=(null); status=0/0} ", "ExecStopEx": "{
path=/usr/sbin/apachectl; argv[]=/usr/sbin/apachectl stop; flags=; start_time=[n/a]; stop_time=[n/a]; pid=0; code=
(null); status=0/0 }", "FailureAction": "none", "FileDescriptorStoreMax": "0", "FinalKillSignal": "9", "FragmentPath": "/lib/systemd/system/apache2.service", "GID": "[not set]", "GuessMainPID": "yes", "IOAccounting": "no", "IOReadBytes": "18446744073709551615", "IOReadOperations": "18446744073709551615", "IOSchedulingClass": "0",
"IOSchedulingPriority": "0", "IOWeight": "[not set]", "IOWriteBytes": "18446744073709551615", "IOWriteOperations":
"18446744073709551615", "IPAccounting": "no", "IPEgressBytes": "[no data]", "IPEgressPackets": "[no data]",
"IPIngressBytes": "[no data]", "IPIngressPackets": "[no data]", "Id": "apache2.service", "IgnoreOnIsolate": "no",
"IgnoreSIGPIPE": "yes", "InactiveEnterTimestampMonotonic": "0", "InactiveExitTimestamp": "Tue 2021-05-25 23:38:37
UTC", "InactiveExitTimestampMonotonic": "325944063", "InvocationID": "bcaf796d984f4659b3246e96f4dde8f2", 
"JobRunningTimeoutUSec": "infinity", "JobTimeoutAction": "none", "JobTimeoutUSec": "infinity", "KeyringMode": "private", 
"KillMode": "control-group", "KillSignal": "15", "LimitAS": "infinity", "LimitASSoft": "infinity", "LimitCORE": "infinity", "LimitCORESoft": "infinity", "LimitCORESoft": "infinity", "LimitCORESoft": "infinity", "LimitCORESoft": "infinity", "LimitDATASoft": 
"infinity", "LimitFSIZE": "infinity", "LimitFSIZESoft": "infinity", "LimitLOCKS": "infinity", "LimitLOCKSSoft": "infinity", 
"LimitMEMLOCK": "65536", "LimitMEMLOCKSoft": "65536", "LimitMSGQUEUE": "819200", "LimitMSGQUEUESoft": "1010200", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "InfinitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "InfinitMSGQUEUESoft": "Infinity", "LimitMSGQUEUESoft": "
"819200", "LimitNICE": "0", "LimitNICESoft": "0", "LimitNOFILE": "524288", "LimitNOFILESoft": "1024", "LimitNPROC":
"7814", "LimitNPROCSoft": "7814", "LimitRSS": "infinity", "LimitRSSSoft": "infinity", "LimitRTPRIO": "0",
"LimitRTPRIOSoft": "0", "LimitRTTIME": "infinity", "LimitRTTIMESoft": "infinity", "LimitSIGPENDING": "7814", "LimitSIGPENDINGSoft": "7814", "LimitSTACK": "infinity", "LimitSTACKSoft": "8388608", "LoadState": "loaded",
"LockPersonality": "no", "LogLevelMax": "-1", "LogRateLimitBurst": "0", "LogRateLimitIntervalUSec": "0",
```

```
"LogsDirectoryMode": "0755", "MainPID": "28018", "MemoryAccounting": "yes", "MemoryCurrent": "17825792", "MemoryDenyWriteExecute": "no", "MemoryHigh": "infinity", "MemoryLimit": "infinity", "MemoryLow": "0", "MemoryMax":
"infinity", "MemoryMin": "0", "MemorySwapMax": "infinity", "MountAPIVFS": "no", "MountFlags": "",
"NFileDescriptorStore": "0", "NRestarts": "0", "NUMAMask": "", "NUMAPolicy": "n/a", "Names": "apache2.service",
"NeedDaemonReload": "no", "Nice": "0", "NoNewPrivileges": "no", "NonBlocking": "no", "NotifyAccess": "none",
"OOMPolicy": "stop", "OOMScoreAdjust": "0", "OnFailureJobMode": "replace", "Perpetual": "no", "PrivateDevices": "no", "PrivateMounts": "no", "PrivateNetwork": "no", "PrivateTmp": "yes", "PrivateUsers": "no", "ProtectControlGroups": "no", "ProtectHome": "no", "ProtectHostname": "no", "ProtectKernelLogs": "no", "ProtectKernelModules": "no", "ProtectKernelTunables": "no", "ProtectSystem": "no", "RefuseManualStart": "no", "RefuseManualStop": "no", "ReloadResult": "success", "RemainAfterExit": "no", "RemoveIPC": "no", "Requires": "-.mount system.slice sysinit.target",
"RequiresMountsFor": "/tmp /var/tmp", "Restart": "on-abort", "RestartKillSignal": "15", "RestartUSec": "100ms", "RestrictNamespaces": "no", "RestrictRealtime": "no", "RestrictSUIDSGID": "no", "Result": "success",
"RootDirectoryStartOnly": "no", "RuntimeDirectoryMode": "0755", "RuntimeDirectoryPreserve": "no", "RuntimeMaxUSec":
"infinity", "SameProcessGroup": "no", "SecureBits": "0", "SendSIGHUP": "no", "SendSIGKILL": "yes", "Slice":
"system.slice", "StandardError": "inherit", "StandardInput": "null", "StandardInputData": "", "StandardOutput": "journal",
"StartLimitAction": "none", "StartLimitBurst": "5", "StartLimitIntervalUSec": "10s", "StartupBlockIOWeight": "[not set]",
"StartupCPUShares": "[not set]", "StartupCPUWeight": "[not set]", "StartupIOWeight": "[not set]", "StateChangeTimestamp": "Tue 2021-05-25 23:38:38 UTC", "StateChangeTimestampMonotonic": "326035816",
"StateDirectoryMode": "0755", "StatusErrno": "0", "StopWhenUnneeded": "no", "SubState": "running", "SuccessAction":
"none", "SyslogFacility": "3", "SyslogLevel": "6", "SyslogLevelPrefix": "yes", "SyslogPriority": "30", "SystemCallErrorNumber": "0", "TTYReset": "no", "TTYVHangup": "no", "TTYVTDisallocate": "no", "TasksAccounting": "yes", "TasksCurrent": "6", "TasksMax": "2344", "TimeoutAbortUSec": "1min 30s", "TimeoutCleanUSec": "infinity",
"TimeoutStartUSec": "1min 30s", "TimeoutStopUSec": "1min 30s", "TimerSlackNSec": "50000", "Transient": "no", "Type":
"forking", "UID": "[not set]", "UMask": "0022", "UnitFilePreset": "enabled", "UnitFileState": "enabled", "UtmpMode": "init",
"WantedBy": "multi-user.target", "WatchdogSignal": "6", "WatchdogTimestampMonotonic": "0", "WatchdogŪSec": "0"}}
TASK [Teste: O serviço apache2 encontra-se ativo no arrangue no sistema, e estÃ; iniciado?]
**************
ok: [ubuntu-20.04] = > {
"changed": false,
"msq": "SUCESSO: O serviço apache2 estÃ; correctamente instalado e inicia com o arrangue do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
```

ok: [ubuntu-20.04] => {"changed": false, "examined": 2021, "files": [{"atime": 1621986020.5731876, "ctime": 1621985964.1089694, "dev": 2049, "gid": 0, "gr\_name": "root", "inode": 18, "isblk": false, "ischr": false, "isdir": false, "isfifo": false, "isgid": false, "isnlk": false, "isreg": true, "issock": false, "isuid": false, "mode": "0644", "mtime": 1621985964.1089694, "nlink": 1, "path": "/etc/php/7.4/apache2/php.ini", "pw\_name": "root", "rgrp": true, "roth": true, "rusr": true, "size": 72940, "uid": 0, "wgrp": false, "woth": false, "wusr": true, "xgrp": false, "xoth": false, "xusr": false} {"atime": 1621985942.1700056, "ctime": 1621985876.6532636, "dev": 2049, "gid": 0, "gr\_name": "root", "inode": 774454, "isblk": false, "ischr": false, "isdir": false, "isfifo": false, "isgid": false, "islnk": false, "isreg": true, "issock": false, "isuid": false, "mode": "0644", "mtime": 1601999276.0, "nlink": 1, "path": "/etc/php/7.4/cli/php.ini", "pw name": "root", "rgrp": true, "roth": true, "rusr": true, "size": 72539, "uid": 0, "wgrp": false, "woth": false, "wusr": true, "xgrp": false, "xoth": false, "xusr": false}], "matched": 2, "msg": ""}

# TASK [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'\}) => \{''ansible\_loop\_var'': ''item'', line': 'file\_uploads', 'line': 'file\_uploads', 'fil
"backup": "", "changed": false, "item": {"line": "file uploads = 1", "regexp": "^file uploads"}, "msg": ""}
ok: [ubuntu-20.04] => (item={'regexp': '^upload max filesize', 'line': 'upload max filesize = 1G'}) => {"ansible loop var":
"item", "backup": "", "changed": false, "item": {"line": "upload_max_filesize = 1G", "regexp": "^upload_max_filesize"}, "msg": ""}
ok: [ubuntu-20.04] => (item={'regexp': '^max file uploads', 'line': 'max file uploads = 20'}) => {"ansible loop var":
"item", "backup": "", "changed": false, "item": {"line": "max_file_uploads = 20", "regexp": "^max_file_uploads"}, "msg": ""}
ok: [ubuntu-20.04] => (item={'regexp': '^post_max_size', 'line': 'post_max_size = 2G'}) => {"ansible_loop_var": "item",
"backup": "", "changed": false, "item": {"line": "post_max_size = 2G", "regexp": "^post_max_size"}, "msg": ""} ok: [ubuntu-20.04] => (item={'regexp': '^memory_limit', 'line': 'memory_limit = 2G'}) => {"ansible_loop_var": "item",
"backup": "", "changed": false, "item": {"line": "memory limit = 2G", "regexp": "^memory limit"}, "msg": ""}
ok: [ubuntu-20.04] => (item={'regexp': '^max input time', 'line': 'max input time = 3600'}) => {"ansible loop var":
"item", "backup": "", "changed": false, "item": {"line": "max_input_time = 3600", "regexp": "^max_input_time"}, "msg": ""}
```

### TASK [Teste: As linhas do php.ini encontram-se alteradas?]

```
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O ficheiro php.ini foi alterado com sucesso"
```

### TASK [Simulação: Obtem informação sobre a pastas /var/www/leantime] \*\*\*\*\*\*\*\*<del>\*</del>\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

```
ok: [ubuntu-20.04] => {"changed": false, "stat": {"atime": 1621985965.1694996, "attr flags": "e", "attributes": ["extents"],
"block size": 4096, "blocks": 8, "charset": "binary", "ctime": 1621985973.1975117, "dev": 2049, "device type": 0,
"executable": true, "exists": true, "gid": 33, "gr_name": "www-data", "inode": 1280370, "isblk": false, "ischr": false, "isdir":
true, "isfifo": false, "isgid": false, "islnk": false, "isreg": false, "issock": false, "isuid": false, "mimetype": "inode/directory",
"mode": "0755", "mtime": 1621985973.1975117, "nlink": 8, "path": "/var/www/leantime", "pw_name": "www-data", "readable": true, "rgrp": true, "roth": true, "rusr": true, "size": 4096, "uid": 33, "version": "2814010018", "wgrp": false,
```

```
"woth": false, "writeable": true, "wusr": true, "xgrp": true, "xoth": true, "xusr": true}}
TASK [Teste: A pasta /var/www/leantime existe e tem as permissµes certas?]
                   ok: [ubuntu-20.04] = > {
 "changed": false,
"msg": "SUCESSO: Permissões correctas no site leantime"
TASK [Simulação: Verifica se é necessÃ;rio criar a base de dados leantime database]
ok: [ubuntu-20.04] => {"changed": false, "cmd": "mysql -u root -e 'use leantime database'", "delta": "0:00:00.027427",
"end": "2021-05-26 09:28:55.149819", "failed when result": false, "rc": 0, "start": "2021-05-26 09:28:55.122392", "stderr":
"", "stderr lines": [], "stdout": "", "stdout lines": []}
TASK [Teste: A base de dados leantime database existe?]
ok: [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]
ok: [ubuntu-20.04] => {"accept_ranges": "bytes", "age": "129", "changed": false, "connection": "close",
"content_disposition": "attachment; filename=Leantime-v2.1.7.zip", "content_length": "29635461", "content_type": "application/octet-stream", "cookies": {}, "cookies_string": "", "date": "Wed, 26 May 2021 09:28:56 GMT", "elapsed": 2,
"etag": "\"2f38e583171fbf2cbfcab5381b900ec9\"", "last_modified": "Sat, 06 Feb 2021 04:55:33 GMT", "msg": "OK (29635461 bytes)", "redirected": true, "server": "AmazonS3", "status": 200, "strict_transport_security": "max-
age = 31536000", "url": "https://github-releases.githubusercontent.com/29745084/\bar{a}199b200-\bar{6}80d-11\bar{e}b-9f71-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19b200-\bar{b}19
1d481f70a225?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-
Credential=AKIAIWNJYAX4CSVEH53A%2F20210526%2Fus-east-1%2Fs3%2Faws4 request&X-Amz-
Date=20210526T092646Z&X-Amz-Expires=300&X-Amz-
SignedHeaders=host&actor_id=0&key_id=0&repo_id=29745084&response-content-
disposition = attachment \% 3B\% 20 file name \% 3D Lean time-v2.1.7. zip\&response-content-type = application \% 2Foctet-stream", and the property of the proper
"via": "1.1 varnish, 1.1 varnish", "x_amz_id_2":
"MANIIkCq7QsYNpsBCeQPvkDmHIbSHcI9HSALB+ZRWfBMcx5loQ662ZVSVOuPv0Hj7jVv2Anm3wg=",
"x_amz_request_id": "E2TJEN94SJ017CNF", "x_cache": "MISS, HIT", "x_cache_hits": "0, 0", "x_fastly_request_id": "64ff8596b77103b513fc147413bb0a9bfeca73ed", "x_served_by": "cache-dca17781-DCA, cache-mad22046-MAD"}
TASK [Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php]
ok: [ubuntu-20.04] => {"changed": false, "stat": {"atime": 1621986033.7277615, "attr_flags": "e", "attributes": ["extents"],
"block_size": 4096, "blocks": 16, "charset": "us-ascii", "checksum": "3e32b92314445eebee7c73294775ba7577dc5e15",
"ctime": 1621985977.0914576, "dev": 2049, "device_type": 0, "executable": true, "exists": true, "gid": 33, "gr_name": "www-
data", "inode": 774462, "isblk": false, "ischr": false, "isdir": false, "isfifo": false, "isgid": false, "isgid": false, "islnk": false, "isreg": true, "issock": false, "isuid": false, "mimetype": "text/x-php", "mode": "0755", "mtime": 1621985977.0914576, "nlink": 1, "path": "/var/www/leantime/config/configuration.php", "pw_name": "www-data", "readable": true, "rgrp": true, "roth": true, "rusr": true, "size": 5724, "uid": 33, "version": "260453957", "wgrp": false, "woth": false, "writeable": true, "wusr": true, "xgrp":
true, "xoth": true, "xusr": true}}
TASK [Teste: O ficheiro /var/www/leantime/config/configuration.php existe e tem as permissões certas?]
ok: [ubuntu-20.04] =  {
"changed": false,
"msg": "SUCESSO: PermissÂues correctas e ficheiro configuration.php existente"
TASK [Simulação: Testa se o dbuser foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04] => {"changed": false, "failed when result": false, "msg": ""}
TASK [Teste: O dbUser foi alterado?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"
TASK [Simulação: Testa se o dbDatabase foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04] => {"changed": false, "failed when result": false, "msg": ""}
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 dbPassword foi alterado no ficheiro configuration.php utilizando o módulo replace.]
ok: [ubuntu-20.04] => {"changed": false, "failed when result": false, "msg": ""}
TASK [Teste: O dbPassword foi alterado?]
ok: [ubuntu-20.04] = > {
"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] => {"changed": false, "stat": {"atime": 1621985979.8768497, "attr_flags": "e", "attributes": ["extents"], "block_size": 4096, "blocks": 8, "charset": "us-ascii", "checksum": "589a794e2832307500d22bf7df4b52d92282f318", "ctime": 1621985978.8403316, "dev": 2049, "device_type": 0, "executable": true, "exists": true, "gid": 33, "gr_name": "www-
data", "inode": 774463, "isblk": false, "ischr": false, "isdir": false, "isfifo": false, "isgid": false, "islnk": false, "isreg": true,
"issock": false, "isuid": false, "mimetype": "text/plain", "mode": "0777", "mtime": 1621985977.5997117, "nlink": 1, "path":
"/etc/apache2/sites-available/leantime.conf", "pw name": "root", "readable": true, "rqrp": true, "roth": true, "rusr": true,
"size": 320, "uid": 0, "version": "3389268433", "wgrp": true, "woth": true, "writeable": true, "wusr": true, "xgrp": true,
"xoth": true, "xusr": true}}
TASK [Teste: O ficheiro /etc/apache2/sites-available/leantime.conf existe e tem as permissÃues certas?]
************
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: PermissÃues correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/leantime.conf]
ok: [ubuntu-20.04] => \{"changed": false, "stat": \{"atime": 1621985979.8768497, "attr_flags": "", "attributes": [], the state of the s
"block_size": 4096, "blocks": 0, "charset": "binary", "ctime": 1621985978.4601417, "dev": 2049, "device_type": 0,
"executable": true, "exists": true, "gid": 0, "gr_name": "root", "inode": 1033827, "isblk": false, "ischr": false, "isdir": false,
"isfifo": false, "isgid": false, "islnk": true, "isreg": false, "issock": false, "isuid": false, "lnk_source": "/etc/apache2/sites-
available/leantime.conf", "lnk target": "/etc/apache2/sites-available/leantime.conf", "mimetype": "inode/symlink", "mode":
"0777", "mtime": 1621985978.4601417, "nlink": 1, "path": "/etc/apache2/sites-enabled/leantime.conf", "pw name": "root",
"readable": true, "rgrp": true, "roth": true, "rusr": true, "size": 42, "uid": 0, "version": null, "wgrp": true, "woth": true,
"writeable": true, "wusr": true, "xgrp": true, "xoth": true, "xusr": true}}
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/leantime.conf existe e tem as permissões certas?]
ok: [ubuntu-20.04] = > \{
"changed": false,
"msg": "SUCESSO: Permissões correctas"
TASK [Simulação: Obtem informação sobre o ficheiro /etc/apache2/sites-enabled/000-default.conf]
ok: [ubuntu-20.04] => {"changed": false, "stat": {"exists": false}}
TASK [Teste: O ficheiro /etc/apache2/sites-enabled/000-default.conf NÃfO existe?]
************************************
ok: [ubuntu-20.04] =  
"changed": false,
"msg": "All assertions passed"
TASK [Simulação: Activa o módulo mod rewrite no apache]
ok: [ubuntu-20.04] => {"changed": false, "result": "Module rewrite enabled"}
TASK [Simulação: Activa o módulo mod rewrite no apache]
*******************************
ok: [ubuntu-20.04] => {"changed": false, "result": "Module rewrite enabled"}
TASK [Teste: o mod rewrite do apache encontra-se ativo?]
ok: [ubuntu-20.04] = > {
"changed": false,
"msg": "SUCESSO: mod_rewrite encontra-se instalado e ativo"
```

TASK [Simulação: Tenta fazer login na aplicação com o utilizador criado]

[WARNING]: The value True (type bool) in a string field was converted to 'True' (type string). If this does not look like what you

expect, quote the entire value to ensure it does not change.

ok: [ubuntu-20.04] => {"accept\_ranges": "bytes", "changed": false, "connection": "close", "content\_length": "10918", "content\_type": "text/html", "cookies": {}, "cookies\_string": "", "date": "Wed, 26 May 2021 09:29:05 GMT", "elapsed": 0, "etag": "\"2aa6-5c330063848fb\"", "last\_modified": "Tue, 25 May 2021 23:38:33 GMT", "msg": "OK (10918 bytes)", "redirected": false, "server": "Apache/2.4.41 (Ubuntu)", "status": 200, "url": "http://localhost", "vary": "Accept-Encoding"}

fatal: [ubuntu-20.04]: FAILED! => {"msg": "The task includes an option with an undefined variable. The error was: 'dict object' has no attribute 'set cookie'\n\nThe error appears to be in

'/home/admlocal/leantime\_ansible/molecule/default/verify.yml': line 353, column 5, but may\nbe elsewhere in the file depending on the exact syntax problem.\n\nThe offending line appears to be:\n\n\n - name: \"Simulaç£o: Obtem a pÃ;gina showMyCalendar para testar uma pÃ;gina com o login efetuado com sucesso\"\n ^ here\nThis one looks easy to fix. It seems that there is a value started\nwith a quote, and the YAML parser is expecting to see the line ended\nwith the same kind of quote. For instance:\n\n when: \"ok\" in result.stdout\n\nCould be written as:\n\n when: \"ok\" in result.stdout\n\nOr equivalently:\n\n when: \"ok\" in result.stdout\"\n"}

### PLAY RECAP

ubuntu-20.04: ok=36 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