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]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano molecule/default/verify.yml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 206 linhas lidas ] GNU nano 4.8 molecule/default/verify.yml
^G Ajuda^O Gravar^W Procurar^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txt ^X Sair^R Carregar^\ Substituir ^U Colar txt ^T Ortografia ^_ Ir p/ linha M-E RefazerM-6 Copiar txt
# Tutorial de inspiração para a infraestrutura conduzida por teste no site
# https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/
- name: "Infraestrutura conduzida por testes"hosts: allgather facts: falsebecome: truetasks:- name:
Variáveisinclude vars:file: ../../vars/main.yml- name: "Simulação: Atualizar a cache do sistema"apt:update cache:
truecache valid time: 3600check mode: trueregister: estado- name: "teste: a cache encontra-se actualizada?" assert: that:-
not estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem actualizações
pendentes"- name: "Atualizar o sistema operativo (equivalente a apt upgrade) "apt:upgrade: safecheck mode: trueregister:
estado- name: "teste: o sistema operativo encontra-se atualizado?"
[?12l[?25h[?25l - name: "teste: o sistema operativo encontra-se atualizado?"
assert:that: - not estado.changed success msg: "SUCESSO: O sistema operativo 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 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
[?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: regexp: r
"^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[?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 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 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 nA£o existente"
# Outro dos requesitos \tilde{A} @ a exist\tilde{A}^{\underline{a}} n cia 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-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
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: PermissAues incorrectas ou ficheiro configuration.php nA£o existente"
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M[?12l[?25h[?25l78M[?12l[?25h[?25l78Mfail_msg: "ERRO: O dbUser n\$\tilde{A}\$£o foi alterado no ficheiro configuration.php"[? 12l[?25h[?25l78]]

Msuccess msg: "SUCESSO: O dbUser foi alterado no ficheiro configuration.php"[?12l[?25h[?25l78

M- conf is not failed[?12l[?25h[?25l78

M- conf is not changed [?121[?25h[?25178

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

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

```
M- name: "Teste: O dbUser foi alterado?"[?12l[?25h[?25l78
M[?12l[?25h[?25l78Mfailed when: false[?12l[?25h[?25l url: https://github.com/Leantime/leantime/releases/download/{{
versao leantime }}/Leantime-{{ versao leantime }}.zipregister: resultado
# Teste: Deve existir o ficheiro configuration.php no site do leantime. A existência deste ficheiro
# com as permissões certas indica que o processo de unzip correu bem
# Documentação oficial em: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat module.html- name:
"Simulação: Obtem informação sobre o ficheiro /var/www/leantime/config/configuration.php"stat:path:
"/var/www/leantime/config/configuration.php"register: ficheiro- name: "Teste: O ficheiro
/var/www/leantime/config/configuration.php existe e tem as permissões certas?"assert:that:- ficheiro.stat.exists-
ficheiro.stat.isreg-ficheiro.stat.mode == "0755"- ficheiro.stat.pw name == "www-data"- ficheiro.stat.gr name == "www-data"-
data"success_msg: "SUCESSO: Permissões correctas e ficheiro configuration.php existente"fail msg: "ERRO:
PermissÃues incorrectas ou ficheiro configuration.php não 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 simulação o sistema vai determinar se estas estão configuradas com o valor esperado.userUser=""'User="{{
login leantime }}"
[?121[?25h[?25lpath: "/var/www/leantime"pasta
- name: "Teste: A pasta /var/www/leantime existe e tem as permissµes certas?"
assert: that: - pasta.stat.exists - pasta.stat.isdir - pasta.stat.mode == "0755" - pasta.stat.pw name == "www-data"-
pasta.stat.gr name == "www-data" success msg: "SUCESSO: Permissões correctas no site leantime" fail msg: "ERRO:
PermissAues incorrectas no site leantime ou site nA£o existente"
# Outro dos requesitos é a existÃancia de uma base de dados para o site.
# Esta base de dados deve ser criada, logo tem de ser testada para determinar se ela existe ou não.
# Fonte de inspiração: https://serverfault.com/questions/173978/from-a-shell-script-how-can-i-check-whether-a-mysql-
database-exists- name: "Simulação: Verifica se é necessário criar a base de dados leantime database"shell: "mysql -u
root -e 'use leantime database'"register: resultfailed when: falsechanged when: false
- name: "Teste: A base de dados leantime database existe?"
assert: that: - result.rc == 0 success 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: resultado[?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... ] [ 264 linhas escritas ]^O
Gravar^W Procurar ^K Cortar txt ^J Justificar ^C Pos cursorU Desfazer M-A Marcar txtX Sair ^R Carregar^\ Substituir
^U Colar txt ^T Ortografia ^ Ir p/ linha M-E Refazer M-6 Copiar txt
[?12l[?25h[?25l
[?12l[?25h[?1049l
[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule lint
INFO default scenario test matrix: dependency, lint
INFO Performing prerun...
INFO Using .cache/roles/nunomourinho.leantime ansible symlink to current repository in order to enable Ansible to find
the role using its expected full name.
INFO Added ANSIBLE ROLES PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:/.cache/roles
INFO Running default > dependency
WARNING Skipping, missing the requirements file.
WARNING Skipping, missing the requirements file.
INFO Running default > lint
COMMAND: set -e
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]
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 serviço 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 arranque 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,
"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,
"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.]
*********
changed: [ubuntu-20.04]
TASK [Teste: O dbUser foi alterado?]
fatal: [ubuntu-20.04]: FAILED! => {
"assertion": "conf is not changed",
"changed": false,
"evaluated_to": false,
"msg": "ERRO: O dbUser não foi alterado no ficheiro configuration.php"
PLAY RECAP
ubuntu-20.04: ok=21 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\$ exit exit