```
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano molecule/default/verify.yml
[?2004h[?1049h[?7h]?1h=[?1h=[?25l[A ler...][177 linhas lidas]] GNU nano 4.8 molecule/default/verify.yml
^G Ajuda^O Gravar^W Procurar^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txt ^X Sair^R Carregar^\ Substituir ^U Colar txt ^T Ortografia ^_ Ir p/ linha M-E RefazerM-6 Copiar txt
# Tutorial de inspira§Â£o para a infraestrutura conduzida por teste no site
# https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/
- name: "Infraestrutura conduzida por testes"hosts: allgather facts: falsebecome: truetasks:- name: "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 está
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?"assert:that:- not estado.changedsuccess_msg: "SUCESSO: O sistema operativo estÃ; atualizado"
[?12l[?25h[?25l - not estado.changed success_msg: "SUCESSO: O sistema operativo estÃ; atualizado" fail_msg: "ERRO:
Existem actualizações pendentes"
- name: "Teste: a cache encontra-se atualizada?" assert: that: - not estado.changedsuccess_msg: "SUCESSO: A cache está
atualizada" fail msg: "ERRO: Existem atualizações pendentes"
- name: "SimulaÁ§Á£o: testa se as aplicaÁ§Áµes 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 - libmcrypt-dev- gccmake- autoconf
[?12l[?25h[?25l78- make- autoconf- libc-dev- pkg-config- pwgen- curl- unzip- zip- php-mbstring- expect- net-tools- python3-
mysqldb- python3-aptpython3-pycurlcheck mode: trueregister: estados dependencias encontra-se instaladas?"s
dependencias estavam instaladas "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: trueregister: estado
- name: "Teste: O serviço apache2 encontra-se ativo no arranque no sistema, e estÃ; iniciado?"assert:
[?12l[?25h[?25l - name: "Teste: O serviço apache2 encontra-se ativo no arranque no sistema, e está
iniciado?"assert:that:not estado.changedsuccess_msg: "SUCESSO: O serviço apache2 estÃ; correctamente instalado e
inicia com o arranque do sistema "fail msq: "ERRO: O serviÃso apache2 nÃfo se encontra correctamente instalado"
# Fonte: https://www.mydailytutorials.com/using-ansible-find-module-search-filesfolder- name: "Rotina Auxiliar> Procura o
caminho do ficheiro php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurse: trueregister: caminho_php_ini
# Fonte: https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html- name: "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" line: "memory_limit = 2G"- regexp: "^max_input_time" line: "max_input_time = 3600"check_mode: true
[?12l[?25h[?25l78line: "max input time = 3600"check mode: trueregister: estadoAs 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 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: Permissões correctas no site leantime"fail_msg: "ERRO: Permissões incorrectas no site
leantime ou site não existente"
# Outro dos requesitos é a existência de uma base de dados para o site.
# Esta base de dados deve ser criada, logo tem de ser testada para determinar se ela existe ou não.
# Fonte de inspiração: https://serverfault.com/questions/173978/from-a-shell-script-how-can-i-check-whether-a-mysql-
database-exists- name: "Simulação: Verifica se é necessÃ;rio criar a base de dados leantime_database"shell: "mysql -u
root -e 'use leantime database'"
[?12l[?25h[?25l - 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"
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[?12l[?25h[?25l[?25h[?25l line: "max input time = 3600"check mode: trueestado

- name: "Teste: As linhas do php.ini encontram-se alteradas ?"assert: that: not estado.changedsuccess_msg: "SUCESSO: O ficheiro php.ini foi alterado com sucesso"fail_msg: "ERRO: 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 certasFonte de inspira§Â£o:

https://docs.ansible.com/ansible/latest/collections/ansible/builtin/stat_module.html: Obtem informa§Â£o sobre a pastas /var/www/leantime"stat:path: "/var/www/leantime"pasta- name: "Teste: A pasta /var/www/leantime existe e tem as permissões certas?"assert:that:- pasta.stat.exists- pasta.stat.isdir- pasta.stat.mode == "0755"- pasta.stat.pw_name == "www-data"- pasta.stat.gr_name == "www-data"success_msg: "SUCESSO: Permissões correctas no site leantime"fail_msg: "ERRO: Permissões incorrectas no site leantime ou site não existente"

- # Outro dos requesitos é a existência de uma base de dados para o site.
- # Esta base de dados deve ser criada, logo tem de ser testada para determinar se ela existe ou nA£o.
- # 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'"[?12l[?25h[?25lO serviço apache2 encontra-se ativo no arranque no sistema, e está iniciado?"serviço apache2 está correctamente instalado e inicia com o arranque do sistema"O serviço apache2 não se encontra correctamente instalado"Fonte: https://www.mydailytutorials.com/using-ansible-find-module-search-filesfolder

- name: "Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurse: true

register: 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" line: "memory_limit = 2G" regexp: "^max_input_time" line: "max_input_time = 3600"check_mode: true[? 12l[?25h[?25l- make- autoconf- libc-dev- pkg-config- pwgen- curl- unzip- zip- php-mbstring- expect- net-tools- python3-mysqldb- python3-apt- python3-pycurlcheck_mode: trueregister: estadoas dependencias encontra-se instaladas?"As dependencias estavam instaladas"Faltam instalar algumas dependencias. O software pode estar parcialmente instalado" de inspiração: https://docs.ansible.com//latest/collections/ansible/builtin/service_module.htmlSimulação: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque"service:name: apache2state:

startedenabledcheck_mode: trueregister: estado

Teste: O serviço apache2 encontra-se ativo no arranque no sistema, e está iniciado?"assert:[?12l[?25h[?25lnot estado.changedsuccess_msg: "SUCESSO: O sistema operativo está atualizado"fail_msg: "ERRO: Existem actualizações pendentes"

- name: "Teste: a cache encontra-se atualizada?"assert:that:not estado.changedsuccess_msg: "SUCESSO: A cache estÃ; atualizada"fail_msg: "ERRO: Existem atualizações pendentes"
- name: "Simulação: testa se as aplicaçÃ μ es 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 - libmcrypt-dev- gcc - make - autoconf[?12l[?25h[?25l

Tutorial de inspira§Â£o para a infraestrutura conduzida por teste no site

- # https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/
- name: "Infraestrutura conduzida por testes"hosts: allgather facts: falsebecome: true
- tasks:- 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 está 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?"assert:that:not estado.changedsuccess_msg: "SUCESSO: O sistema operativo estÃ; atualizado"[?12l[?25h[?25l

 $\lceil ?12 \rceil \lceil ?25 \rceil \lceil ?25 \rceil \lceil ?12 \rceil \lceil ?25 \rceil \lceil ?25 \rceil \rceil \rceil \rceil$ 25h[?25l [?12l[?25h[?25lV[?12l[?25h[?25la[?12l[?25h[?25lr[?12l[?25h[?25li[?12l[?25h[?25lA][?25lA][?25h[?25lV[?12l[?25h[?25lV]]]]])])])))))))))))))25le[?12l[?25h[?25li[?12l[?25h[?25ls[?12l[?25h[?25l78

M[?12][?25h[?25l]?12][?25h[?25h[?25l]?12][?25h[?25h[?25l]?12][?25h[?25h[?25l]?12][?25h[?25h[?25l]?12][?25h[?25h[?25h]?12][?25h[?25h[?25h]?12][?25h[?25h[?25h]?12][?25h[?25h[?25h]?12][?25h[?25h[?25h]?12][?25h[?25h[?25h]?12][?25h[?225h[?25ll[?12l[?25h[?25lu[?12l[?25h[?25ld[?12l[?25h[?25le[?12l[?25h[?25l [?12l[?25h[?25lv[?12l[?25h[?25lv[?12l[?25h[?25lv[?12l]?25h[?25lv]]?12l]?25h[?25lv]]])]])])])25lr[?12l[?25h[?25ls[?12l[?25h[?25l:[?12l[?25h[?25l78

 $M[?12l[?25h[?25l\ [?12l[?25h[?25l\ [?12l]]?25h[?25l\ [?12l[?25h[?25l\ [?12l]]?25h[?25l\ [?12l]]?25h[?25l\ [?12l]]]]]]]$ 25h[?25li[?12l[?25h[?25ll[?12l[?25h[?25le[?12l[?25h[?25l:[]]]]]]]]]]]])])]25h[?25lm[?12l[?25h[?25ll[?12l[?25h[?25l78

M[?12l[?25h[?25l78M[?12l[?25h[?25l

- name: "teste: o sistema operativo encontra-se atualizado?"
- [?12l[?25h[?25l name: VariÃ;veis
- $\begin{array}{l} [?12l[?25h[?25l name: Vari\tilde{A}] veis \\ [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h]?25l]]] \\ \end{array}]$

[?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...] [189 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 - name: "teste: o sistema operativo encontra-se atualizado?"

- assert:that: not estado.changed success msg: "SUCESSO: O sistema operativo estÃ; atualizado" fail msg: "ERRO: Existem actualizações pendentes"
- name: "Teste: a cache encontra-se atualizada?" assert: that: not estado.changedsuccess msg: "SUCESSO: A cache estÃ; atualizada fail msg: "ERRO: Existem atualiza ç ões 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- autoconflibc-dev- pkg-config - pwgen - curl- unzipzip- php-mbstring- expect- net-tools - python3-mysqldb - python3-apt- python3pycurlcheck 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[?12l[?25h[?25lenabled: trueO serviÃso apache2 encontra-se ativo no arranque no sistema, e estĂ; iniciado?"O serviÃ\$o apache2 estĂ; correctamente instalado e inicia com o arranque do sistema"O serviÃ\$o apache2 nÃ\$o se encontra correcta: https://www.mydailytutorials.com/using--find-module-searchfilesfolder Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache 2"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[?25lline: "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 permissÃues 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: Permissões correctas no site leantime"fail msg: "ERRO: Permissões incorrectas no site leantime ou site não existente"
- # Outro dos requesitos é a existência de uma base de dados para o site.[?12l[?25h[?25l
- # Outro dos requesitos é a 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-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 e Teste: Verifica se o endereço git para a versÃfo de leantime existe"uri:url: https://github.com/Leantime/leantime/releases/download/{{ versao leantime }}/Leantime-{{ versao leantime }}.zipresultado [?12l[?25h[?1049] [?11>[?20041]0;admlocal@devOps: ~/leantime_ansibleadmlocal@devOps:~/leantime_ansible\$ nano vasars/main.yml [?2004h[?1049h[?7h[?1h=[?1h=[?25l[A ler...][4 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#" [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l]?12l]?25h[?25l]]]]]] 25h[?25ls[?12l[?25h[?25la[?12l[?25h[?25lo[?12l[?25h[?25l?[?12l[?25h[?25ll[?12l[?25h[?25le[?12l[?25h[?25la[?12l]?25h[?25la]]?12l]?25h[?25la]]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25la]?12l[?25l 25ln[?12l[?25h[?25lt[?12l[?25h[?25li[?12l[?25h[?25lm[?12l[?25h[?25le[?12l[?25h[?25le]?12l]?25h]?25l [?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]]?12l]]?25h[?25l[?12l]]]]]]]]]]]]]]]25l_leantime[?12l[?25h[?25l[?12l[?25h[?25l:[?12l[?25h[?25l [?12l[?25h[?25lv[?12l[?25h[?25lv[?12l[?25h[?25lv[?12l]?25h[?25lv[?12l]?25h[?25lv[?12l]?25h[?25lv]?12l]?25h[?25lv[?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?25h[?25lv]?12lv[?25h[?25lv]?12lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]?12lv[?25h[?25lv]?12lv]?12lv[?25h[?25lv]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[?25h[v]]?12lv[v]]?12lv[v] 25l1[?12l[?25h[?25l.[?12l[?25h[?25l7[?12l[?25h[?25l [?12l[?25h[?25l[?12l[?25h[?25l M-D Formato DOSM-A AnexarB SegurançaC Cancelar M-M Formato MacM-P Prepor T P/ Nome do ficheiro onde escrever: vars/main.yml [?12l[?25h[?25l [A escrever...] [5 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>[?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 ./molecule/default/verify.yml 189:1 error too many blank lines (2 > 0) (empty-lines) **CRITICAL** Lint failed with error code 1]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible\$ molecule lintnano vars/main.yml [14@molecule/default/verifyexitnano molecule/default/verify.yml

[?2004h[?1049h[?7h]?1h=[?1h=[?25l[A ler...][189 linhas lidas] GNU nano 4.8 molecule/default/verify.yml]

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Tutorial de inspira§Â£o para a infraestrutura conduzida por teste no site

 ${\tt\#\ https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-molecule-with-ansible-as-verifier/lessing-using-using-molecule-with-ansible-as-verifier/lessing-using$

- 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 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 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 apache 2 estÃ; correctamente instalado e inicia com o arranque do sistema" O servià so apache 2 nà fo 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:

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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 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 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"
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 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 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 jÃ; se encontra criada" fail msg: "ERRO: Não existe a base de dados leantime database"
Teste: O download do software leantime deve ser possavel, a partir do site do leantime e Teste: Verifica se o enderea so git
para a versão de leantime existe"uri:url: https://github.com/Leantime/releases/download/{{ versao_leantime
}}/Leantime-{{ versao leantime }}.zipresultado
[?12l[?25h[?25l[?12l[?25h[?25l
[?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: molecule/default/verify.yml [?12l[?25h[?25l [ A escrever... ] [ 187 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
[?12l[?25h[?25l[?12l[?25h[?1049l
[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano
molecule/default/verify.yml molecule lint
INFO default scenario test matrix: dependency, lint
INFO Performing prerun...
INFO Using .cache/roles/nunomourinho.leantime ansible symlink to current repository in order to enable Ansible to find
the role using its expected full name.
INFO Added ANSIBLE ROLES PATH=~/.ansible/roles:/usr/share/ansible/roles:/etc/ansible/roles:./.cache/roles
INFO Running default > dependency
WARNING Skipping, missing the requirements file.
WARNING Skipping, missing the requirements file.
INFO Running default > lint
COMMAND: set -e
yamllint.
ansible-lint
Loading custom .yamllint config file, this extends our internal yamllint config.
WARNING Listing 1 violation(s) that are fatal
yaml: too many blank lines (1 > 0) (empty-lines)
.ansible-lint:3
You can skip specific rules or tags by adding them to your configuration file:
# .ansible-lint
warn list: # or 'skip list' to silence them completely
- yaml # Violations reported by yamllint
Finished with 1 failure(s), 0 warning(s) on 40 files.
CRITICAL Lint failed with error code 2
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ molecule lintnano
molecule/default/verify.vml
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler... ][ 187 linhas lidas ] GNU nano 4.8 molecule/default/verify.yml
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# Tutorial de inspiração para a infraestrutura conduzida por teste no site
# https://www.adictosaltrabajo.com/2020/05/08/ansible-testing-using-molecule-with-ansible-as-verifier/
- name: "Infraestrutura conduzida por testes"hosts: allgather facts: falsebecome: truetasks:- name:
Variáveisinclude vars:file: ../../vars/main.yml- name: "Simulação: Atualizar a cache do sistema"apt:update cache:
truecache valid time: 3600check mode: trueregister: estado- name: "teste: a cache encontra-se actualizada?" assert:that:-
not estado.changedsuccess msg: "SUCESSO: A cache estÃ; atualizada fail msg: "ERRO: Existem actualizaçÃues
pendentes"- name: "Atualizar o sistema operativo (equivalente a apt upgrade) "apt:upgrade: safecheck mode: trueregister:
estado- name: "teste: o sistema operativo encontra-se atualizado?"
[?12l[?25h[?25l In. parÃig^Y Prim.linha^T Ir para txtC Cancelar O Fim parÃigV Últ. linha
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Ativa a opção file_uploads no ficheiro php.ini, utilizando o módulo lineinfile."ansible.builtin.lineinfile:path: "{{

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Insira nº da linha, nº da coluna: [?12l[?25h[?25l1
[?12l[?25h[?25l8
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 ^O GravarProcurar ^K Cortar txt ^J Justificar ^C Pos cursor M-U Desfazer M-A Marcar txtX Sair ^R Carregar\ Substituir
^U Colar txtT Ortografia ^ Ir p/ linha M-E RefazerM-6 Copiar txt
78shell: "mysql -u root -e 'use leantime_database'"register: resultfailed_when: falsechanged_when: falseTA base de dados
leantime database existe?"result.rc == 0base de dados leantime database jÃ; se encontra criada"Não existe a base de
dados leantime database"
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l
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Nome do ficheiro onde escrever: molecule/default/verify.yml [?12l[?25h[?25l [ A escrever... ][ 187 linhas escritas ]^O
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[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano
molecule/default/verify.yml molecule lint
INFO default scenario test matrix: dependency, lint
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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.
WARNING Listing 1 violation(s) that are fatal
yaml: too many blank lines (1 > 0) (empty-lines)
.ansible-lint:3
You can skip specific rules or tags by adding them to your configuration file:
# .ansible-lint
warn_list: # or 'skip_list' to silence them completely
- yaml # Violations reported by yamllint
Finished with 1 failure(s), 0 warning(s) on 40 files.
CRITICAL Lint failed with error code 2
]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano .ansible-lint
[?2004h[?1049h[?7h[?1h=[?1h=[?25l[ A ler...][ 3 linhas lidas ] GNU nano 4.8 .ansible-lint]
^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
25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l[?12l]?25h[?25l]]?12l]?25h[?25l]]?12l[?25h[?25l[?12l]?25h[?25l]]?12l[?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?12l]]?25h[?25l[?1
25l[?12l[?25h[?25lModificado
[?12l[?25h[?25l[?12l[?25h[?25l
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l
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[?12][?25h[?25l[?12][?25h[?25l[?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25][?12][?25h[?25]]]
25l[?12l[?25h[?25l[?12l[?25h[?25l]?12l]?25h[?25l]] \\ M-D \ Formato \ DOSM-A \ An exar B \ Seguran \tilde{A} \ Cancelar \ An exar B \ Seguran \tilde{A} \ Cancelar \ An exar B \ Seguran \tilde{A} \ Seg
M-M Formato MacM-P Prepor T P/ ficheiros
Nome do ficheiro onde escrever: .ansible-lint [?12l[?25h[?25l [ A escrever... ] [ 2 linhas escritas ]^O Gravar^W Procurar
^K Cortar txt ^J Justificar ^C Pos cursorU Desfazer M-A Marcar txtX Sair ^R Carregar^\ Substituir ^U Colar txt ^T
Ortografia ^ Ir p/ linha M-E Refazer M-6 Copiar txt
[?12l[?25h[?25l[?12l[?25h[?1049l
[?11>[?2004l]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime ansible$ nano .ansible-lint molecule
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.

```
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 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 arrangue]
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 arranque do sistema"
TASK [Rotina Auxiliar> Procura o caminho do ficheiro php.ini do servidor apache2]
     ok: [ubuntu-20.04]
```

INFO Running default > lint

```
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 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]
PLAY RECAP
ubuntu-20.04: ok=18 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

INFO Verifier completed successfully.

]0;admlocal@devOps: ~/leantime ansibleadmlocal@devOps: ~/leantime ansible\$ exit exit