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Ajuda^O  
Gravar^W  
Procurar^K  
Cortar txt ^J  
Justificar ^C  
Pos cursor M-U  
Desfazer M-A  
Marcar txt  
^X  
Sair^R  
Carregar^V  
Substituir ^U  
Colar txt ^T  
Ortografia ^  
Ir p/ linha M-E  
RefazerM-6  
Copiar txt  
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[ 12 linhas escritas ]

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Gravar^W

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Desfazer M-A

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Copiar txt

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[?1l]>[?2004l]0:admlocal@devOps: ~/leantime ansibleadmlocal@devOps:~/leantime\_ansible\$ nsnano tasks/tasks.yml

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GNU nano 4.8 tasks/tasks.yml

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Justificar^C

Pos cursor M-U

Desfazer M-A

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Sair^R

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Substituir^U

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Ortografia^H

Ir p/ linha M-E

Refazer M-6

Copiar txt

---- name: Atualiza a cache (equivalente a apt update)apt:update\_cache: truecache\_valid\_time: 3600- name: "Atualiza o sistema operativo"apt:upgrade: safe- name: "Instalar as dependencias necessÃ¡ria ao programa leantime"apt:pkg:- mc-screen- git- apache2- mysql-server- php- php-mysql- php-ldap- php-cli- php-soap- php-json- graphviz- php-xml- php-gd- php-zip- libapache2-mod-php- php-dev- libmcrypt-dev- gcc- make- autoconf- libc-dev

[?12l[?25h[?25l - autoconf - libc-dev - pkg-config- pwgen- curl- unzip - zip - php-mbstring- expect- net-tools - python3-mysqldb - python3-apt- python3-pycurl

# Fonte de inspiraÃ§Ã£o: [https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service\\_module.html](https://docs.ansible.com/ansible/latest/collections/ansible/builtin/service_module.html)

- name: "Instala o serviÃ§o apache2 no arranque do sistema"service:name: apache2state: startedenabled: true

# Fonte: <https://www.mydailytutorials.com/using-ansible-find-module-search-filesfolder>

- name: "Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2"find:paths: /etcpatterns: "php.ini"recurse: trueregister: caminho\_php\_ini

# Fonte: [https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile\\_module.html](https://docs.ansible.com/ansible/latest/collections/ansible/builtin/lineinfile_module.html)

- name: "Ativa vÃ¡rias opÃ§Ãões no ficheiro php.ini, utilizando o mÃ¡dulo lineinfile."ansible.builtin.lineinfile:path: "{{ caminho\_php\_ini.files[0].path }}"regexp: "{{ item.regexp }}"line: "{{ item.line }}"

[?12l[?25h[?25lregexp: "{{ item.regexp }}"line: "{{ item.line }}"with\_items:regexp: "^file\_uploads" line: "file\_uploads = 1"regexp: "^upload\_max\_filesize" line: "upload\_max\_filesize = 1G"regexp: "^max\_file\_uploads" line: "max\_file\_uploads = 20"regexp: "^post\_max\_size" line: "post\_max\_size = 2G"regexp: "^memory\_limit" line: "memory\_limit = 2G"- regexp: "^max\_input\_time" line: "max\_input\_time = 3600"

# Fonte: [https://docs.ansible.com/ansible/2.7/modules/file\\_module.html](https://docs.ansible.com/ansible/2.7/modules/file_module.html)

- name: Cria a directoria temporÃ¡ria leantime e a directoria de apache leantimefile:path: "{{ item.path }}"state: directory mode: 0755 owner: www-data group: www-datawith\_items:- path: "/tmp/leantime"- path: "/var/www/leantime"

# Fonte: Ansible for DevOps - Server and configuration management for humans de Jeff Geerling, pÃ¡gina 98

- name: "Cria a base de dados de mysql para o leantime"mysql\_db: "db=leantime\_database state=present"

- name: "Cria o utilizador para a base de dados leantime"mysql\_user:namlogin\_leantime }}"

[?12l[?25h[?25lmysql\_user:namlogin\_leantime }}" password: "{{ password\_leantime }}"priv: "leantime\_database.\*:ALL"host: localhoststate: present

- name: "Faz o download do software leantime a partir do repositÃ³rio git"get\_url:url:



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25lef[?12l[?25h[?25lt[?12l[?25h[?25lc[?12l[?25h[?25l/[?12l[?25h[?25la[?12l[?25h[?25lp[?12l[?25h[?25la[?12l[?25h[?25lc[?  
12l[?25h[?25lh[?12l[?25h[?25le[?12l[?25h[?25l2[?12l[?25h[?25l/[?12l[?25h[?25ls[?12l[?25h[?25li[?12l[?25h[?25lt[?12l[?  
25h[?25le[?12l[?25h[?25ls[?12l[?25h[?25l-[?12l[?25h[?25la[?12l[?25h[?25lv[?12l[?25h[?25la[?12l[?25h[?25li[?12l[?25h[?  
25ll[?12l[?25h[?25la[?12l[?25h[?25lb[?12l[?25h[?25ll[?12l[?25h[?25le[?12l[?25h[?25l/[?12l[?25h[?25ll[?12l[?25h[?25le[?  
12l[?25h[?25la[?12l[?25h[?25ln[?12l[?25h[?25lt[?12l[?25h[?25li[?12l[?25h[?25lm[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?  
25h[?25lc[?12l[?25h[?25lo[?12l[?25h[?25ln[?12l[?25h[?25lf[?12l[?25h[?25l

[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?  
25h[?25lo[?12l[?25h[?25lw[?12l[?25h[?25ln[?12l[?25h[?25le[?12l[?25h[?25lr[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?  
25lr[?12l[?25h[?25lo[?12l[?25h[?25lo[?12l[?25h[?25lt[?12l[?25h[?25l

[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[

```
25lw[?12l[?25h[?25lw[?12l[?25h[?25lw[?12l[?25h[?25l-[?12l[?25h[?25ld[?12l[?25h[?25la[?12l[?25h[?25lt[?12l[?25h[?25la[?
12l[?25h[?25l
[?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?25h[?25l [?12l[?
25h[?25lm[?12l[?25h[?25lo[?12l[?25h[?25ld[?12l[?25h[?25le[?12l[?25h[?25l.[?12l[?25h[?25l [?12l[?25h[?25l0[?12l[?25h[?
25l7[?12l[?25h[?25l5[?12l[?25h[?25l5[?12l[?25h[?25l
[?12l[?25h[?25l[?12l[?25h[?25l[?12l[?25h[?25l M-D
Formato DOSM-A
AnexarB
SeguranÃ§aC
Cancelar M-M
Formato MacM-P
Prepor^T
P/ ficheiros
Nome do ficheiro onde escrever: tasks/tasks.yml
[?12l[?25h[?25l [ A escrever... ]
```

[ 157 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
[?1l>[?2004l]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ molecule lint
INFO
default scenario test matrix: dependency, lint
INFO
Performing prerun...
```

```
INFO
Using .cache/roles/nunomourinho.leantime_ansible symlink to current repository in order to enable Ansible to find the role
using its expected full name.
INFO
Added ANSIBLE_ROLES_PATH
=~/./ansible/
roles
:./usr/share/ansible/
roles
:./etc/ansible/
roles
:././cache/
roles
```

```
INFO
Running
default
>
dependency
```

```
WARNING
Skipping, missing the requirements file.
WARNING
Skipping, missing the requirements file.
INFO
Running
default
>
lint
```

```
COMMAND: set -e
yamllint .
ansible-lint
```

```
Loading custom .yamllint config file, this extends our internal yamllint config.
]0;admlcal@devOps: ~/leantime_ansibleadmlcal@devOps:~/leantime_ansible$ molecule converge
INFO
```

default scenario test matrix: dependency, create, prepare, converge

INFO

Performing prerun...

INFO

Using .cache/roles/nunomourinho.lean\_time\_ansible symlink to current repository in order to enable Ansible to find the role using its expected full name.

INFO

Added ANSIBLE\_ROLES\_PATH

= ~/.ansible/

roles

:/usr/share/ansible/

roles

:/etc/ansible/

roles

:/./cache/

roles

INFO

Running

default

>

dependency

WARNING

Skipping, missing the requirements file.

WARNING

Skipping, missing the requirements file.

INFO

Running

default

>

create

WARNING

Skipping, instances already created.

INFO

Running

default

>

prepare

WARNING

Skipping, instances already prepared.

INFO

Running

default

>

converge

PLAY [Converge]

\*\*\*\*\*

TASK [Gathering Facts]

\*\*\*\*\*

ok: [ubuntu-20.04]

TASK [Include lean\_time\_ansible]

\*\*\*\*\*

TASK [lean\_time\_ansible : Atualiza a cache (equivalente a apt update)]

\*\*\*\*\*

ok: [ubuntu-20.04]

TASK [lean\_time\_ansible : Atualiza o sistema operativo]

\*\*\*\*\*

ok: [ubuntu-20.04]

TASK [lean\_time\_ansible : Instalar as dependencias necess ria ao programa lean\_time]

\*\*\*\*\*

ok: [ubuntu-20.04]

TASK [leantime\_ansible : Instala o servi  o apache2 no arranque do sistema]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Ativa v  rias op   es no ficheiro php.ini, utilizando o m  dulo lineinfile.]  
\*\*\*\*\*  
ok: [ubuntu-20.04] => (item={'regex': '^file\_uploads', 'line': 'file\_uploads = 1'})  
  
ok: [ubuntu-20.04] => (item={'regex': '^upload\_max\_filesize', 'line': 'upload\_max\_filesize = 1G'})  
  
ok: [ubuntu-20.04] => (item={'regex': '^max\_file\_uploads', 'line': 'max\_file\_uploads = 20'})  
  
ok: [ubuntu-20.04] => (item={'regex': '^post\_max\_size', 'line': 'post\_max\_size = 2G'})  
  
ok: [ubuntu-20.04] => (item={'regex': '^memory\_limit', 'line': 'memory\_limit = 2G'})  
  
ok: [ubuntu-20.04] => (item={'regex': '^max\_input\_time', 'line': 'max\_input\_time = 3600'})

TASK [leantime\_ansible : Cria a directoria tempor  ria leantime e a directoria de apache leantime]  
\*\*\*\*\*  
ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'})  
  
ok: [ubuntu-20.04] => (item={'path': '/var/www/leantime'})

TASK [leantime\_ansible : Cria a base de dados de mysql para o leantime]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Cria o utilizador para a base de dados leantime]  
\*\*\*\*\*  
[WARNING]: Module did not set no\_log for update\_password  
  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Faz o download do software leantime a partir do reposit  rio git]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Descomprime o software leantime]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Copia o ficheiro de configura  o configuration.sample.php]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Altera as vari  veis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o m  dulo replace.] \*\*\*  
ok: [ubuntu-20.04] => (item={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBadmin"})  
  
ok: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime\_database"})  
  
ok: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"})

TASK [leantime\_ansible : Copia o template do site para a pasta /etc/apache2/sites-available]  
\*\*\*\*\*  
changed: [ubuntu-20.04]

changed=1  
unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

]0;admlocal@devOps: ~/leantime\_ansibleadmlocal@devOps:~/leantime\_ansible\$ molecule idempotence  
INFO  
default scenario test matrix: idempotence  
INFO  
Performing prerun...

INFO  
Using .cache/roles/nunomourinho.leantime\_ansible symlink to current repository in order to enable Ansible to find the role using its expected full name.  
INFO  
Added ANSIBLE\_ROLES\_PATH  
=~/ansible/  
roles  
:/usr/share/ansible/  
roles  
:/etc/ansible/  
roles  
:./cache/  
roles

INFO  
Running  
default  
>  
idempotence

PLAY [Converge]  
\*\*\*\*\*

TASK [Gathering Facts]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [Include leantime\_ansible]  
\*\*\*\*\*

TASK [leantime\_ansible : Atualiza a cache (equivalente a apt update)]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Atualiza o sistema operativo]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Instalar as dependencias necess ria ao programa leantime]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Instala o servi  o apache2 no arranque do sistema]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Rotina Auxiliar: Procura o caminho do ficheiro php.ini do servidor apache2]  
\*\*\*\*\*  
ok: [ubuntu-20.04]

TASK [leantime\_ansible : Ativa v rias op  es no ficheiro php.ini, utilizando o m dulo 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={'regex': '^memory_limit', 'line': 'memory_limit = 2G'})

ok: [ubuntu-20.04] => (item={'regex': '^max_input_time', 'line': 'max_input_time = 3600'})
```

```
TASK [leantime_ansible : Cria a directoria temporária leantime e a directoria de apache leantime]
*****
ok: [ubuntu-20.04] => (item={'path': '/tmp/leantime'})
```

```
ok: [ubuntu-20.04] => (item={'path': '/var/www/leantime'})
```

```
TASK [leantime_ansible : Cria a base de dados de mysql para o leantime]
*****
ok: [ubuntu-20.04]
```

```
TASK [leantime_ansible : Cria o utilizador para a base de dados leantime]
*****
[WARNING]: Module did not set no_log for update_password

ok: [ubuntu-20.04]
```

```
TASK [leantime_ansible : Faz o download do software leantime a partir do repositório git]
*****
ok: [ubuntu-20.04]
```

```
TASK [leantime_ansible : Descomprime o software leantime]
*****
ok: [ubuntu-20.04]
```

```
TASK [leantime_ansible : Copia o ficheiro de configuração configuration.sample.php]
*****
ok: [ubuntu-20.04]
```

```
TASK [leantime_ansible : Altera as variáveis dbuser, dbpassword e dbdatabase no ficheiro configuration.php utilizando o
módulo replace.] ***
ok: [ubuntu-20.04] => (item={'regex': 'dbUser=""', 'line': 'dbUser="leantimeDBadmin"})

ok: [ubuntu-20.04] => (item={'regex': 'dbDatabase=""', 'line': 'dbDatabase="leantime_database"})

ok: [ubuntu-20.04] => (item={'regex': 'dbPassword=""', 'line': 'dbPassword="#S3gr3d0S3cr3t0#"})
```

```
TASK [leantime_ansible : Copia o template do site para a pasta /etc/apache2/sites-available]
*****
ok: [ubuntu-20.04]
```

```
PLAY RECAP
*****
ubuntu-20.04
: ok=15
changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

```
INFO
Idempotence completed successfully.
j0;admlcal@devOps: ~/leantime_ansibleadmlcal@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 [Variáveis]  
*****  
ok: [ubuntu-20.04]
```

```
TASK [Simulação: Atualizar a cache do sistema]  
*****  
ok: [ubuntu-20.04]
```

```
TASK [teste: a cache encontra-se atualizada?]  
*****  
ok: [ubuntu-20.04] => {  
  
  "changed": false,  
  
  "msg": "SUCESSO: A cache está 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 está atualizado"  
  
}
```

```
TASK [Teste: a cache encontra-se atualizada?]  
*****  
ok: [ubuntu-20.04] => {  
  
  "changed": false,  
  
  "msg": "SUCESSO: A cache está atualizada"  
  
}
```

```
TASK [Simulação: testa se as aplicações dependencias 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 [Simulador: Testar se o serviço apache2 se encontra instalado, iniciado e ativo no arranque]
*****
ok: [ubuntu-20.04]
```

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

```
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 [Simulador: Obtem informa 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 [Simulador: Verifica se Ã© 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 já 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 variável 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"

}

PLAY RECAP

\*\*\*\*\*  
ubuntu-20.04  
: ok=28  
changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

INFO  
Verifier completed successfully.  
l0;admlocal@devOps: ~/leantime\_ansibleadmlocal@devOps:~/leantime\_ansible\$ exit  
exit