# tedu\_py1812\_devops\_day03-2

### ansible

## yaml转python数据格式

```
[root@room8pc16 myansible]# vim lamp.yml
- name: configure dbservers
 hosts: dbservers
 tasks:
   - name: install mariadb
     yum:
       name: mariadb-server
       state: present
   - name: start mariadb
      service:
       name: mariadb
        state: started
        enabled: yes
- name: configure webservers
 hosts: webservers
 tasks:
   - name: install apache
        name: [httpd, php, php-mysql]
       state: latest
    - name: start httpd
      service:
        name: httpd
        state: started
        enabled: yes
```

#### 转换成python数据类型

#### 编写下载模块

```
# 建立自定义模块目录
[root@room8pc16 day03]# mkdir library
[root@room8pc16 day03]# cd library
[root@room8pc16 library]# export
ANSIBLE_LIBRARY=/var/ftp/nsd2019/nsd1812/devops/day03/library
[root@room8pc16 library]# vim download.py
import wget
from ansible.module_utils.basic import AnsibleModule
def main():
   module = AnsibleModule(
       argument_spec=dict(
           url=dict(required=True, type='str'),
           local=dict(required=True, type='str')
       )
   wget.download(module.params['url'], module.params['local'])
   module.exit_json(changed=True)
if __name__ == '__main__':
   main()
# 测试,把一张图片放到web服务器的根目录下,如url是:
# http://192.168.4.5/building.jpeg
# 通过ansible使用download模块,要求dbservers下载图片到/home下
[root@room8pc16 myansible]# ansible dbservers -m download -a
"url=http://192.168.4.5/building.jpeg local=/home/"
# 执行时报错,提示没有wget模块。原因是ansible会将download模块拷贝到远程dbservers服务器,在dbservers
上执行download, 但是dbservers上没有安装wget模块。
```

安装wget

```
# 在物理主机上下载wget,并拷贝到dbservers上
[root@room8pc16 tmp]# pip3 download wget --trusted-host mirrors.163.com
[root@room8pc16 tmp]# scp wget-3.2.zip 192.168.4.4:/tmp
# 在远程主机上安装wget,由于远程主机没有pip,所以采用以下安装方式
[root@room8pc16 tmp]# ssh 192.168.4.4
[root@node4 ~]# cd /tmp/
[root@node4 tmp]# unzip wget-3.2.zip
[root@node4 tmp]# cd wget-3.2/
[root@node4 wget-3.2]# python setup.py install
```

远程服务器已经有wget模块了,就可以在物理机上运行ansible指令下载了:

```
[root@room8pc16 myansible]# ansible dbservers -m download -a
"url=http://192.168.4.5/building.jpeg local=/home/"
```