Paramiko sftp

```
1       t = paramiko.Transport((hostname, port))
2       try:
3           t.connect(username=username, password=password)
4           sftp = paramiko.SFTPClient.from_transport(t)
5           sftp.get(source, dest)
6       finally:
7           t.close()
```

Paramiko ssh

```
1       client = paramiko.SSHClient()
2       client.load_system_host_keys()
3       client.set_missing_host_key_policy(paramiko.WarningPolicy)
4       client.connect(host, username=username,
5                      pkey=paramiko.RSAKey.from_private_key_file(ke
6                      look_for_keys=False)
7       client.connect(host, username=username, password=password)
8       client.exec_command(command)
```

HyperV

- WMI
- pywinrm
- IP
- http://antigluk.blogspot.com/2014/04/control-hyper-v-with-python.html

WMI

- https://pypi.python.org/pypi/WMI/
- http://timgolden.me.uk/python/wmi/tutorial.html

WinRM

```
import winrm
s = winrm.Session('windows-host.example.com', auth=('john.smith'
r = s.run_cmd('ipconfig', ['/all'])
print(r.status_code)
print(r.std_out)
r = s.run_ps(ps_script)
```

Ansible installation

```
# python3 –m venv ansible
# source ansible/bin/activate
# pip install 'pywinrm>=0.2.2'
# pip install ansible
# ansible ––version
```

Ansible

- Inventory
- Config
- Playbooks

```
- hosts
- xxx1.yaml
- xxx2.yaml
- group_vars/
    - HOST_GROUP_NAME1.yml
    - HOST_GROUP_NAME2.yml
    - all.yml
```

Inventory

```
1  [group1]
2  IP_OR_HOSTNAME PARAM=VAL PARAM=VAL
3  IP_OR_HOSTNAME2
4
5  [group2]
6  IP_OR_HOSTNAME3 PARAM=VAL PARAM=VAL
7  IP_OR_HOSTNAME4
8
9  [group3:children]
10 group1
11 group2
```