



Configuration Management. Lecture 1.



Automation Configuration Management Tools

ANSIBLE



Chef



Puppet



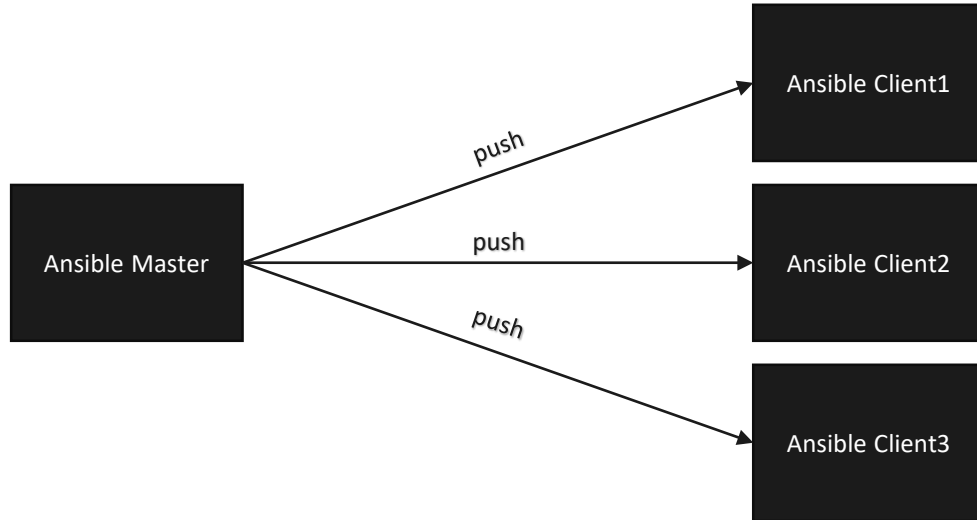
Salt



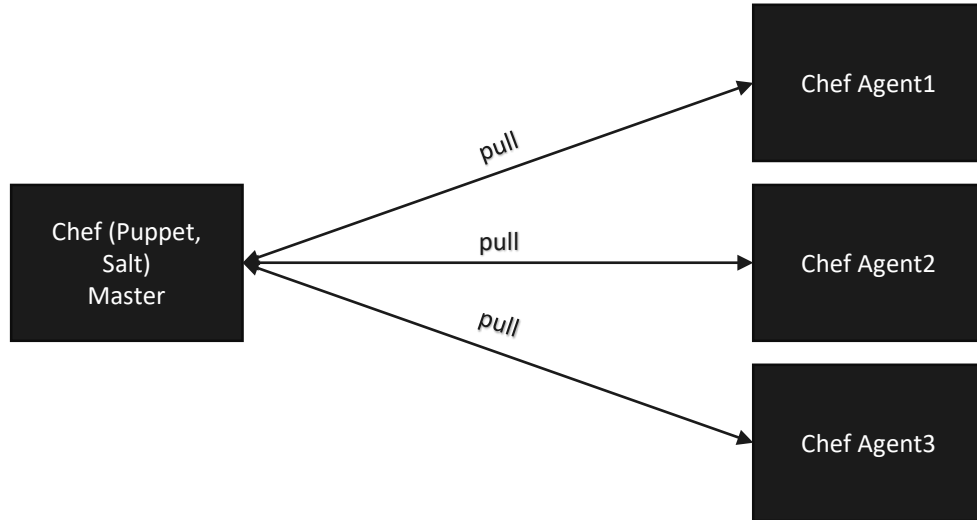
CFEngine



Automation Configuration Management Tools



Automation Configuration Management Tools



ANSIBLE

www.ansible.com

Master (Control) Server Requirements:

1. Linux
2. Python 2.6+ or 3.5+

Controlled Servers Requirements:

1. Linux & admin_credentials & SSH_keys & python2.6+
2. Windows & admin_credentials & PowerShell3.0+ &
& script (ConfigureRemotingForAnsible.ps1)

Linux – port 22 (SSH)

Windows – port 5986 (WinRM)

ANSIBLE

www.ansible.com

Ubuntu 16.04

```
sudo apt-add-repository ppa:ansible/ansible
```

```
sudo apt update
```

```
sudo apt install ansible
```

```
ansible --version
```

CentOS7

```
sudo yum install epel-release
```

```
sudo yum install ansible
```

```
ansible --version
```

ANSIBLE

www.ansible.com

```
192.168.88.214 (student)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect...
2. student@localhost~
3. 192.168.88.214 (student)
Setting up python-setuptools (20.7.0-1) ...
Setting up sshpass (1.05-1) ...
Setting up python-cffi-backend (1.5.2-1ubuntu1) ...
Setting up python-enum34 (1.1.2-1) ...
Setting up python-idna (2.0-3) ...
Setting up python-ipaddress (1.0.16-1) ...
Setting up python-pyasn1 (0.1.9-1) ...
Setting up python-cryptography (1.2.3-1ubuntu0.2) ...
Setting up ansible (2.9.1-1ppa-xenial) ...
Processing triggers for libc-bin (2.23-0ubuntu10) ...
student@ubuntu16srvr:~$ ansible --version
ansible 2.9.1
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/home/student/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 2.7.12 (default, Oct 8 2019, 14:14:10) [GCC 5.4.0 20150424]
student@ubuntu16srvr:~$ history
1 sudo apt update
2 ip a
3 sudo apt-add-repository ppa:ansible/ansible
4 sudo apt update
5 sudo apt install ansible
6 ansible --version
7 history
student@ubuntu16srvr:~$
```

```
student@localhost:~
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect...
2. student@localhost~
3. 192.168.88.214 (student)
[student@localhost ~]$ history
1 ip a
2 sudo yum install epel-release
3 sudo yum install ansible
4 ansible --version
5 clear
6 history
[student@localhost ~]$
[student@localhost ~]$ ansible --version
ansible 2.9.1
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/home/student/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/site-packages/ansible
  executable location = /usr/bin/ansible
  python version = 2.7.5 (default, Oct 30 2018, 23:45:53) [GCC 4.8.5 20150623 (Red Hat 4.8.5-36)]
[student@localhost ~]$ history
1 ip a
2 sudo yum install epel-release
3 sudo yum install ansible
4 ansible --version
5 clear
6 history
7 ansible --version
8 history
[student@localhost ~]$
```

← → ↺ 🏠 console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=instancetype

Приложения ★ Bookmarks 📁 C/CD 📁 LINUX 📁 PA3HOE 📁 MOOC 📁 AWS 🗣️ Speech to text online... 📁 Другие закладки

aws Services ▾ Resource Groups ▾ EC2 ⭐

🔔 vocstartsoft/user468070=d.uz... N. Virginia ▾ Support ▾

🌑 New EC2 Experience [Learn more](#)

EC2 Dashboard **New**

- Events
- Tags
- Reports
- Limits
- INSTANCES
 - Instances**
 - Instance Types
 - Launch Templates **New**
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Scheduled Instances
 - Capacity Reservations
- IMAGES
 - AMIs
 - Bundle Tasks
- ELASTIC BLOCK STORE
 - Volumes
 - Snapshots
 - Lifecycle Manager
- NETWORK & SECURITY
 - Security Groups
 - Elastic IPs **New**

Launch Instance ▾ **Connect** **Actions** ▾

🔍 Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
<input type="checkbox"/>		i-09f95847ead93bd23	t2.micro	us-east-1a	stopped		None		-	-	dnipro
<input checked="" type="checkbox"/>	Ansible	i-0a23f353f8fd8d397	t2.micro	us-east-1b	running	⌛ Initializing	None	ec2-3-80-32-164.comp...	3.80.32.164	-	dnipro
<input type="checkbox"/>		i-0d46fec9ebf631e8	t2.micro	us-east-1c	stopped		None		-	-	dnipro

Instance: **i-0a23f353f8fd8d397 (Ansible)** Public DNS: **ec2-3-80-32-164.compute-1.amazonaws.com**

Description | Status Checks | Monitoring | Tags

Instance ID	i-0a23f353f8fd8d397	Public DNS (IPv4)	ec2-3-80-32-164.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	3.80.32.164
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-31-163.ec2.internal
Availability zone	us-east-1b	Private IPs	172.31.31.163
Security groups	ssh , view inbound rules , view outbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-72d29a08
AMI ID	ubuntu/images/hvm-ssd/ubuntu-xenial-16.04-amd64-server-20190913 (ami-04763b3055de4860b)	Subnet ID	subnet-0edf1043
Platform	-	Network interfaces	eth0
IAM role	-	Source/dest. check	True
Key pair name	dnipro	T2/T3 Unlimited	Disabled
Owner	744588508031	EBS-optimized	False
Launch time	November 28, 2019 at 6:46:50 AM UTC+2 (less than one hour)	Root device type	ebs
Termination protection	False	Root device	/dev/sda1

Session settings

✕



Basic SSH settings

Remote host * ☒ Specify username Port

Advanced SSH settings

Terminal settings

Network settings

Bookmark settings

☒ X11-Forwarding☒ CompressionRemote environment: Execute command: ☐ Do not exit after command endsSSH-browser type: ☐ Follow SSH path (experimental)☒ Use private key ☐ Adapt locales on remote serverExecute macro at session start: 

OK



Cancel

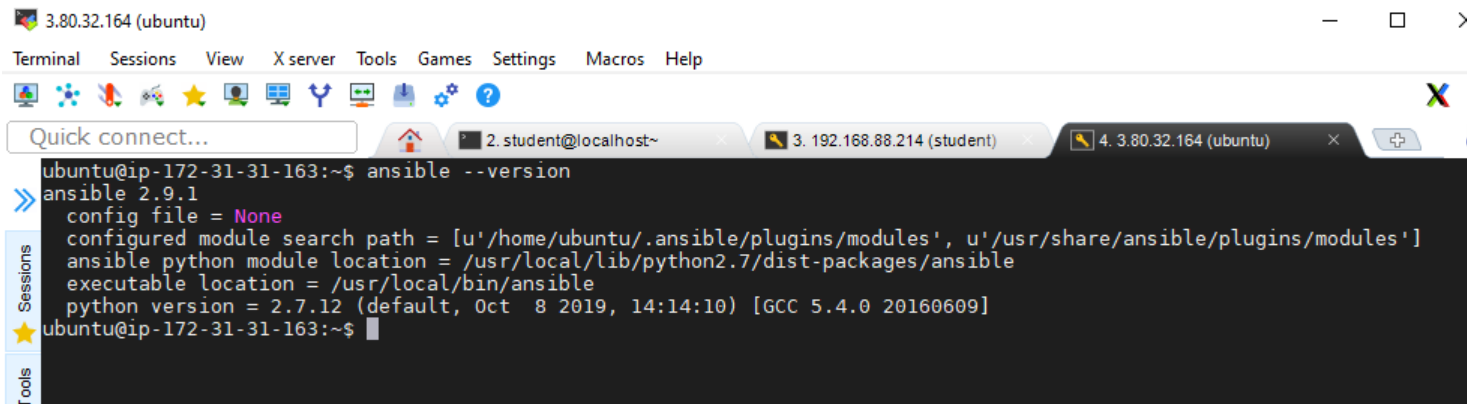
ANSIBLE

www.ansible.com

`sudo apt install python-pip`

`sudo pip install ansible`

`ansible --version`



The screenshot shows a terminal window titled '3.80.32.164 (ubuntu)'. The terminal displays the command `ansible --version` and its output:

```
ubuntu@ip-172-31-31-163:~$ ansible --version
ansible 2.9.1
  config file = None
  configured module search path = [u'/home/ubuntu/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/local/lib/python2.7/dist-packages/ansible
  executable location = /usr/local/bin/ansible
  python version = 2.7.12 (default, Oct  8 2019, 14:14:10) [GCC 5.4.0 20160609]
ubuntu@ip-172-31-31-163:~$
```

ANSIBLE

console.aws.amazon.com/ec2/home?region=us-east-1#Instances:sort=statusChecks

Services Resource Groups EC2

New EC2 Experience

Launch Instance Connect Actions

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
AnsibleClient1	i-04a7be0c353a05f01	t2.micro	us-east-1c	terminated		None		-	-	absible
AnsibleClient2	i-06d3dd1074fea3c87	t2.micro	us-east-1a	terminated		None		-	-	dnipro
	i-09f95847ead93bd23	t2.micro	us-east-1a	stopped		None		-	-	dnipro
Ans2	i-0af04030fba5d5f7d	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-54-82-167-53.com...	54.82.167.53	-	absible
AnsibleClient1	i-0afba5336877f9400	t2.micro	us-east-1c	terminated		None		-	-	dnipro
	i-0d46efc9ebf631e8	t2.micro	us-east-1c	stopped		None		-	-	dnipro
LinuxAnsible2	i-0de5c61c9535cab7f	t2.micro	us-east-1a	terminated		None		-	-	dnipro
Ans1	i-0291f66a639e2d79b	t2.micro	us-east-1c	running	2/2 checks ...	None	ec2-54-159-82-177.co...	54.159.82.177	-	dnipro
Ansible	i-0a23f353f8f0d397	t2.micro	us-east-1b	running	2/2 checks ...	None	ec2-34-234-88-62.com...	34.234.88.62	-	dnipro

Security groups [launch-wizard-3](#) [view inbound rules](#) [view outbound rules](#)

Scheduled events [No scheduled events](#)

AMI ID [amzn-ami-hvm-2018.03.0.20190826-x86_64-gp2 \(ami-00eb20669e0990cb4\)](#)

Platform -

IAM role -

Key pair name [absible](#)

Owner [744588508031](#)

Launch time [November 28, 2019 at 4:51:20 PM UTC+2 \(less than one hour\)](#)

Termination protection [False](#)

Lifecycle [normal](#)

Monitoring [basic](#)

Alarm status [None](#)

Secondary private IPs

VPC ID [vpc-72d29a08](#)

Subnet ID [subnet-182d1736](#)

Network interfaces [eth0](#)

Source/dest. check [True](#)

T2/T3 Unlimited [Disabled](#)

EBS-optimized [False](#)

Root device type [ebs](#)

Root device [/dev/xvda](#)

Block devices [/dev/xvda](#)

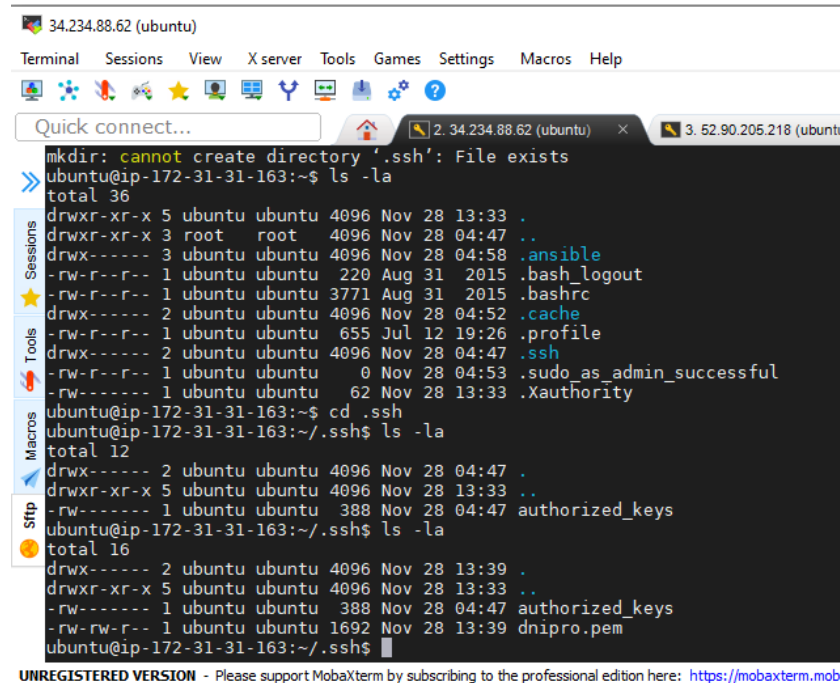
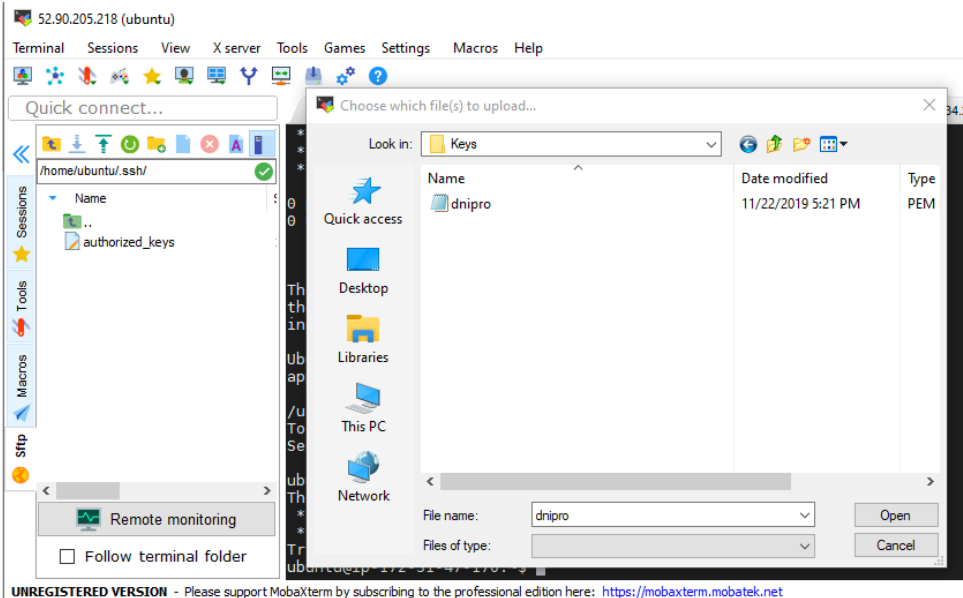
Elastic Graphics ID -

Elastic Inference accelerator ID -

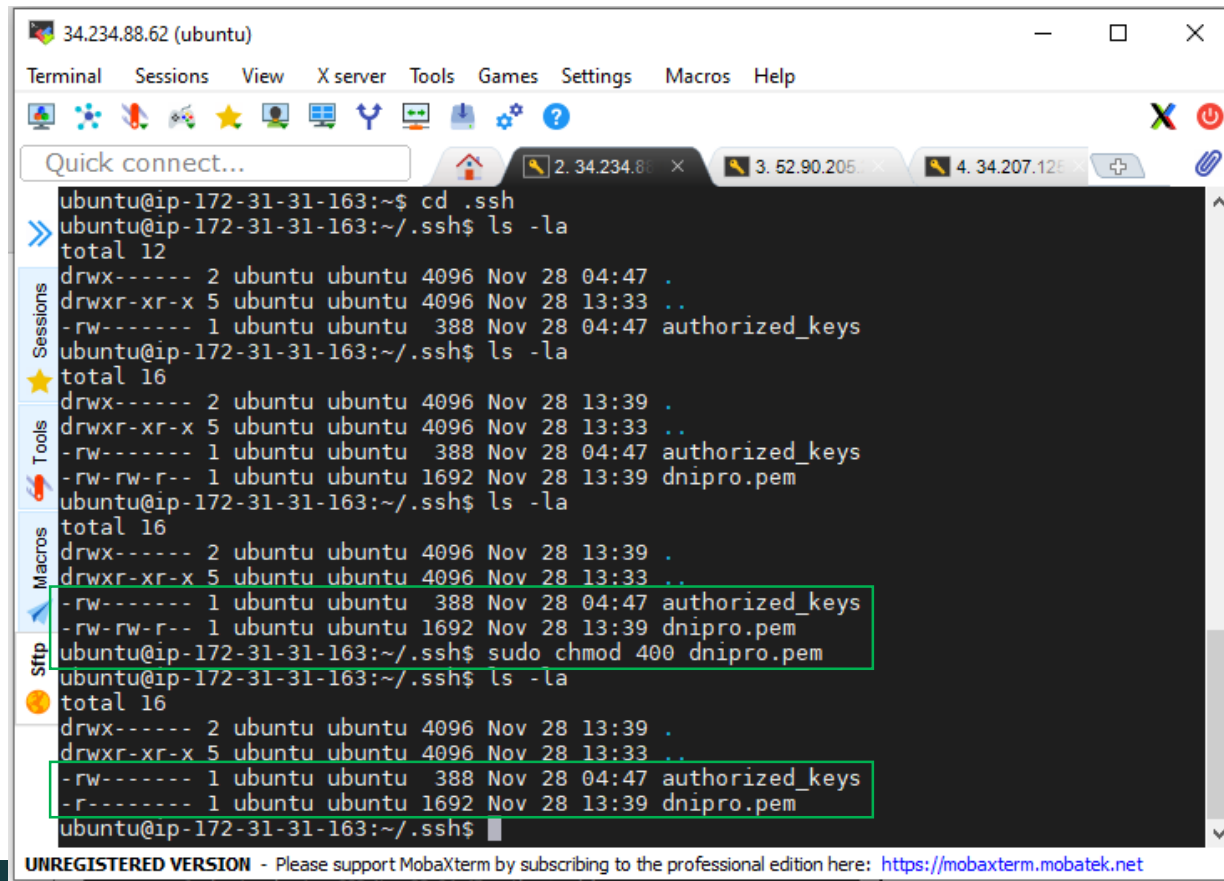
Feedback English (US)

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ANSIBLE



ANSIBLE



34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

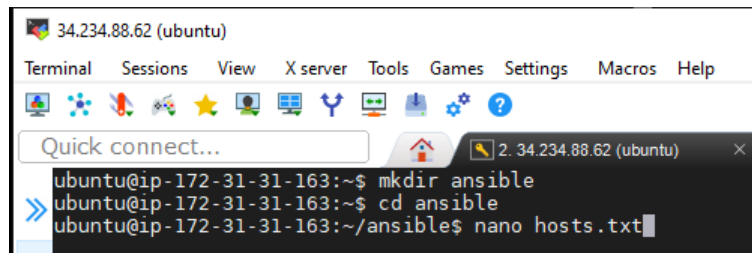
Quick connect...

2. 34.234.88.62 x 3. 52.90.205.100 x 4. 34.207.125.100 x

```
ubuntu@ip-172-31-31-163:~$ cd .ssh
ubuntu@ip-172-31-31-163:~/ssh$ ls -la
total 12
drwx----- 2 ubuntu ubuntu 4096 Nov 28 04:47 .
drwxr-xr-x 5 ubuntu ubuntu 4096 Nov 28 13:33 ..
-rw----- 1 ubuntu ubuntu 388 Nov 28 04:47 authorized_keys
ubuntu@ip-172-31-31-163:~/ssh$ ls -la
total 16
drwx----- 2 ubuntu ubuntu 4096 Nov 28 13:39 .
drwxr-xr-x 5 ubuntu ubuntu 4096 Nov 28 13:33 ..
-rw----- 1 ubuntu ubuntu 388 Nov 28 04:47 authorized_keys
-rw-rw-r-- 1 ubuntu ubuntu 1692 Nov 28 13:39 dnipro.pem
ubuntu@ip-172-31-31-163:~/ssh$ ls -la
total 16
drwx----- 2 ubuntu ubuntu 4096 Nov 28 13:39 .
drwxr-xr-x 5 ubuntu ubuntu 4096 Nov 28 13:33 ..
-rw----- 1 ubuntu ubuntu 388 Nov 28 04:47 authorized_keys
-rw-rw-r-- 1 ubuntu ubuntu 1692 Nov 28 13:39 dnipro.pem
ubuntu@ip-172-31-31-163:~/ssh$ sudo chmod 400 dnipro.pem
ubuntu@ip-172-31-31-163:~/ssh$ ls -la
total 16
drwx----- 2 ubuntu ubuntu 4096 Nov 28 13:39 .
drwxr-xr-x 5 ubuntu ubuntu 4096 Nov 28 13:33 ..
-rw----- 1 ubuntu ubuntu 388 Nov 28 04:47 authorized_keys
-r----- 1 ubuntu ubuntu 1692 Nov 28 13:39 dnipro.pem
ubuntu@ip-172-31-31-163:~/ssh$
```

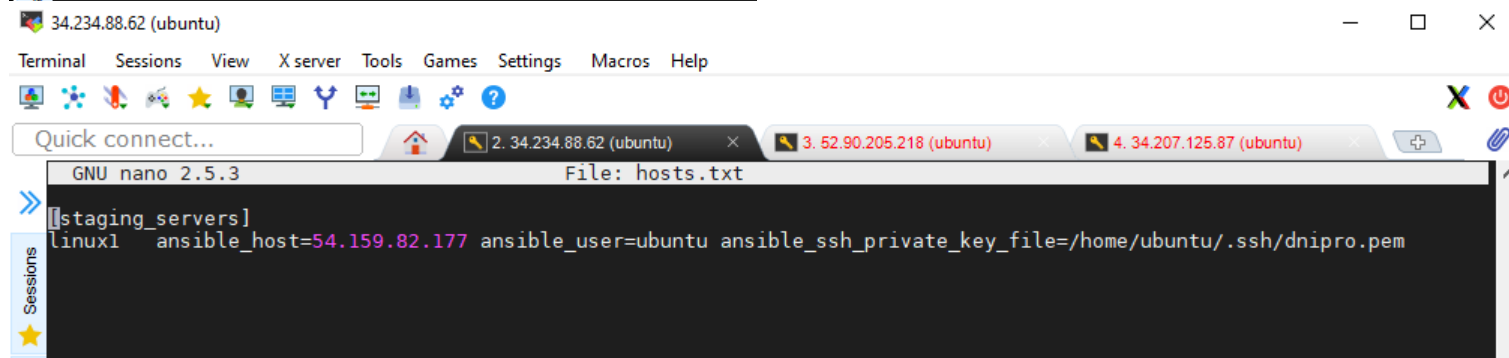
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

ANSIBLE



A terminal window titled "34.234.88.62 (ubuntu)" with a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. A "Quick connect..." search bar is at the top. The terminal shows the following commands and output:

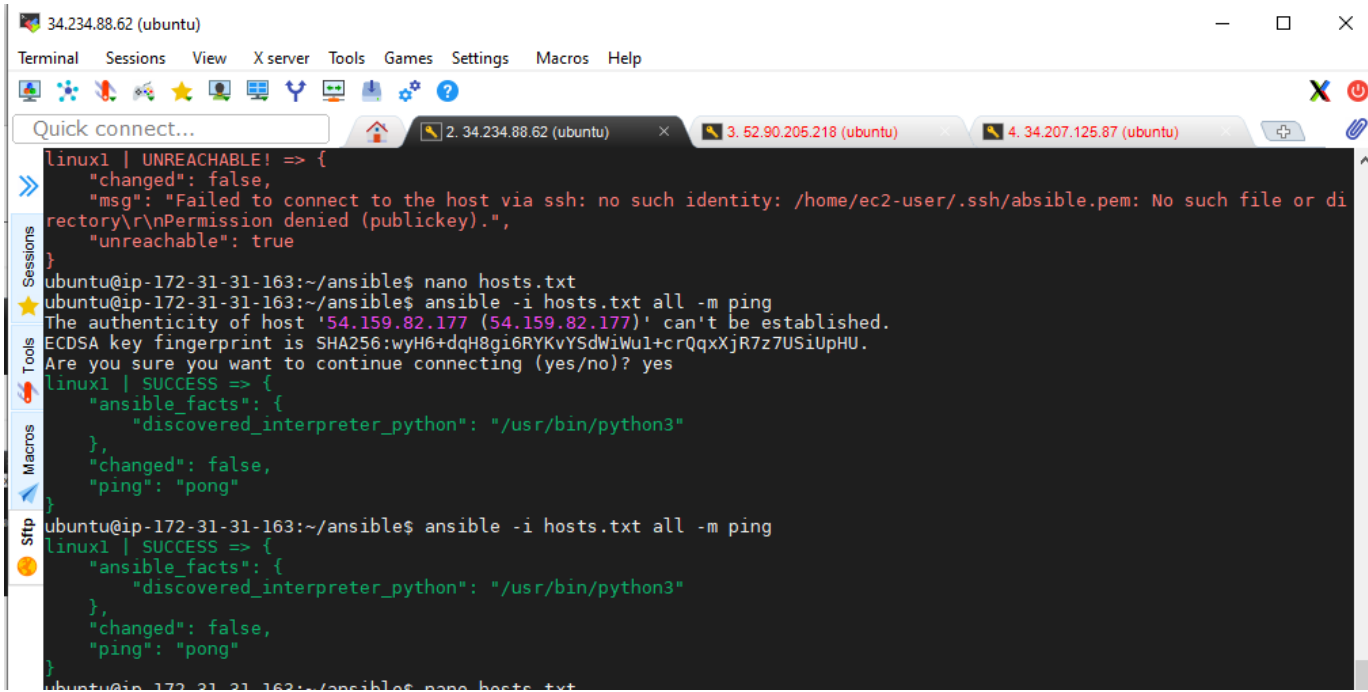
```
ubuntu@ip-172-31-31-163:~$ mkdir ansible
ubuntu@ip-172-31-31-163:~$ cd ansible
ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
```



A terminal window titled "34.234.88.62 (ubuntu)" with a menu bar and toolbar. It features a "Quick connect..." search bar and multiple tabs for connections: "2. 34.234.88.62 (ubuntu)", "3. 52.90.205.218 (ubuntu)", and "4. 34.207.125.87 (ubuntu)". The terminal is running GNU nano 2.5.3 editing the file "hosts.txt". The content of the file is:

```
[[staging_servers]
linux1 ansible_host=54.159.82.177 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/dnipro.pem
```

ANSIBLE



The screenshot shows a terminal window titled "34.234.88.62 (ubuntu)". The terminal displays the following commands and output:

```
linux1 | UNREACHABLE! => {
  "changed": false,
  "msg": "Failed to connect to the host via ssh: no such identity: /home/ec2-user/.ssh/absible.pem: No such file or di
rectory\r\nPermission denied (publickey).",
  "unreachable": true
}
ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
ubuntu@ip-172-31-31-163:~/ansible$ ansible -i hosts.txt all -m ping
The authenticity of host '54.159.82.177 (54.159.82.177)' can't be established.
ECDSA key fingerprint is SHA256:wyH6+dqH8gi6RYKvYSdwiWu1+crQqxXjR7z7USiUpHU.
Are you sure you want to continue connecting (yes/no)? yes
linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-31-163:~/ansible$ ansible -i hosts.txt all -m ping
linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
```

ANSIBLE

```
34.234.88.62 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect... 2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu) 4. 34.207.125.87 (ubuntu)
GNU nano 2.5.3 File: hosts.txt
[staging_servers]
linux1 ansible_host=54.159.82.177 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/dnipro.pem
[production]
linux2 ansible_host=54.82.167.53 ansible_user=ec2-user ansible_ssh_private_key_file=/home/ubuntu/.ssh/absible.pem

ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
ubuntu@ip-172-31-31-163:~/ansible$ ansible -i hosts.txt all -m ping
The authenticity of host '54.82.167.53 (54.82.167.53)' can't be established.
ECDSA key fingerprint is SHA256:qXW64mlqM7GSFxqPTlq/B+SmidbtUleFmFoWCwpyVQ.
Are you sure you want to continue connecting (yes/no)? linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
yes
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
linux2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-31-163:~/ansible$
```


ANSIBLE

The screenshot displays the MobaXterm interface with two terminal windows. The top window, titled '34.234.88.62 (ubuntu)', shows the GNU nano 2.5.3 editor editing the file 'ansible.cfg'. The file content is as follows:

```
[[defaults]
host_key_checking = false
inventory          = ./hosts.txt
```

The bottom window, titled '2. 34.234.88.62 (ubuntu)', shows the execution of Ansible commands. The output indicates that the discovered Python interpreter is '/usr/bin/python' and that the ping command was successful for both 'linux2' and 'linux1' hosts.

```
ubuntu@ip-172-31-31-163:~/ansible$ nano ansible.cfg
ubuntu@ip-172-31-31-163:~/ansible$ nano ansible.cfg
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m ping
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
linux2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-31-163:~/ansible$
```

ANSIBLE

The screenshot shows a MobaXterm window with a terminal session. The terminal is running an Ansible playbook named 'ansible.cfg' on a host named 'ubuntu@ip-172-31-31-163:~/ansible\$'. The command executed is 'ansible all -m ping'. The output shows the results for three hosts: linux1, linux2, and linux3. The output for linux2 and linux3 includes a warning about the Python interpreter discovery.

Hosts.txt file content:

```
[staging_servers]
linux1 ansible_host=54.159.82.177 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/dnipro.pem

[test]
linux3 ansible_host=3.92.133.39 ansible_user=ec2-user ansible_ssh_private_key_file=/home/ubuntu/.ssh/absible.pem

[production]
linux2 ansible_host=54.82.167.53 ansible_user=ec2-user ansible_ssh_private_key_file=/home/ubuntu/.ssh/absible.pem
```

Terminal output:

```
ubuntu@ip-172-31-31-163:~/ansible$ nano ansible.cfg
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m ping
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}

[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}

linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}

ubuntu@ip-172-31-31-163:~/ansible$
```

ANSIBLE

The image shows a desktop environment with a terminal window and a nano editor window. The terminal window displays the output of an Ansible command, and the nano editor shows the contents of the hosts.txt file.

Terminal Window:

```
ubuntu@ip-172-31-31-163:~/ansible$ nano hosts.txt
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m ping
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}
linux1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
```

nano Editor Window (File: hosts.txt):

```
GNU nano 2.5.3
[staging]
linux1  ansible_host=54.159.82.177 ansible_user=ubuntu ansible_ssh_private_key_file=/home/ubuntu/.ssh/dnipro.pem

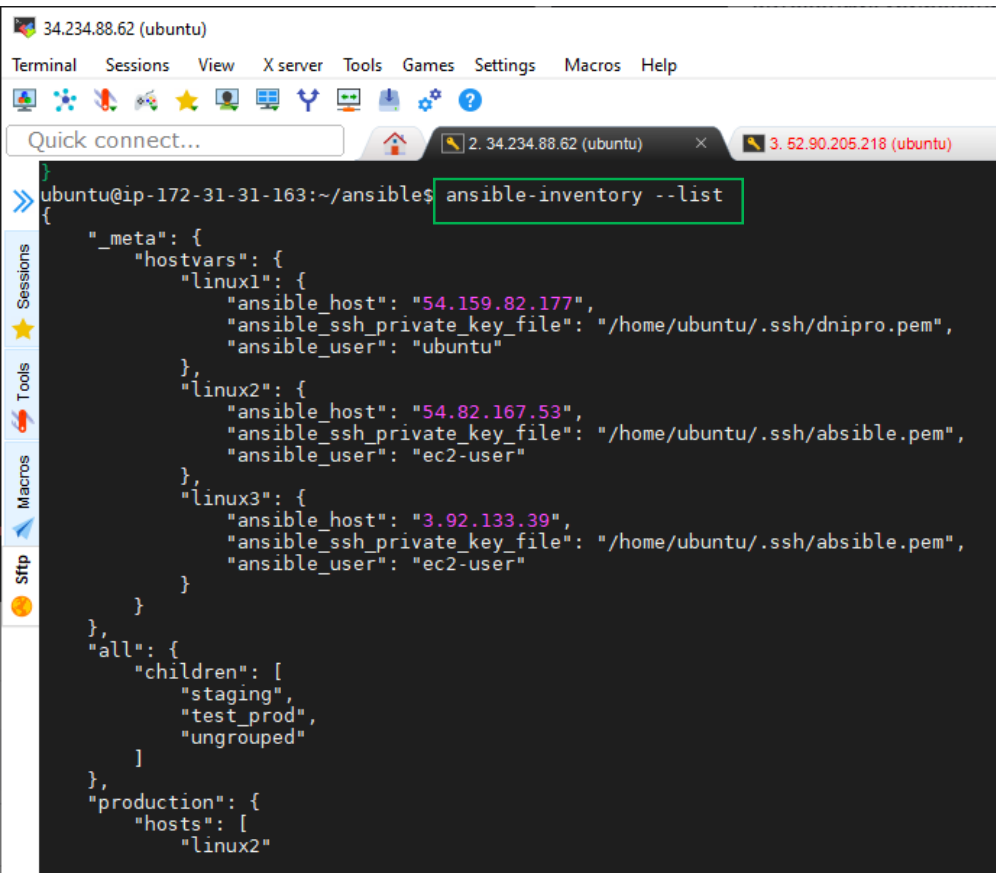
[test]
linux3  ansible_host=3.92.133.39

[production]
linux2  ansible_host=54.82.167.53

[test_prod:children]
test
production

[test_prod:vars]
ansible_user=ec2-user
ansible_ssh_private_key_file=/home/ubuntu/.ssh/absible.pem
```

ANSIBLE



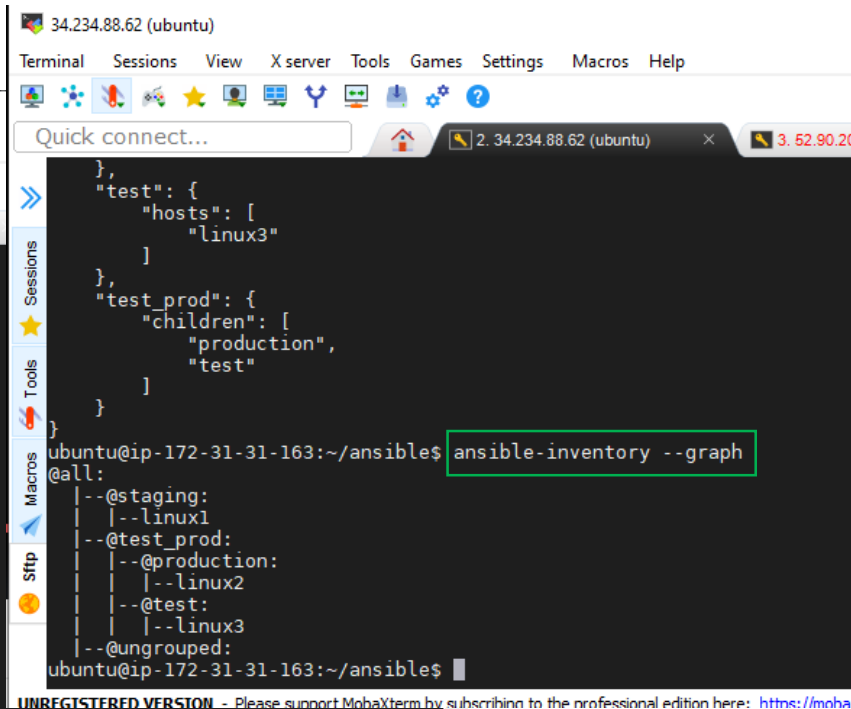
34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Quick connect...

2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu)

```
ubuntu@ip-172-31-31-163:~/ansible$ ansible-inventory --list
{
  "_meta": {
    "hostvars": {
      "linux1": {
        "ansible_host": "54.159.82.177",
        "ansible_ssh_private_key_file": "/home/ubuntu/.ssh/dnipro.pem",
        "ansible_user": "ubuntu"
      },
      "linux2": {
        "ansible_host": "54.82.167.53",
        "ansible_ssh_private_key_file": "/home/ubuntu/.ssh/absible.pem",
        "ansible_user": "ec2-user"
      },
      "linux3": {
        "ansible_host": "3.92.133.39",
        "ansible_ssh_private_key_file": "/home/ubuntu/.ssh/absible.pem",
        "ansible_user": "ec2-user"
      }
    }
  },
  "all": {
    "children": [
      "staging",
      "test_prod",
      "ungrouped"
    ]
  },
  "production": {
    "hosts": [
      "linux2"
    ]
  }
}
```



34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

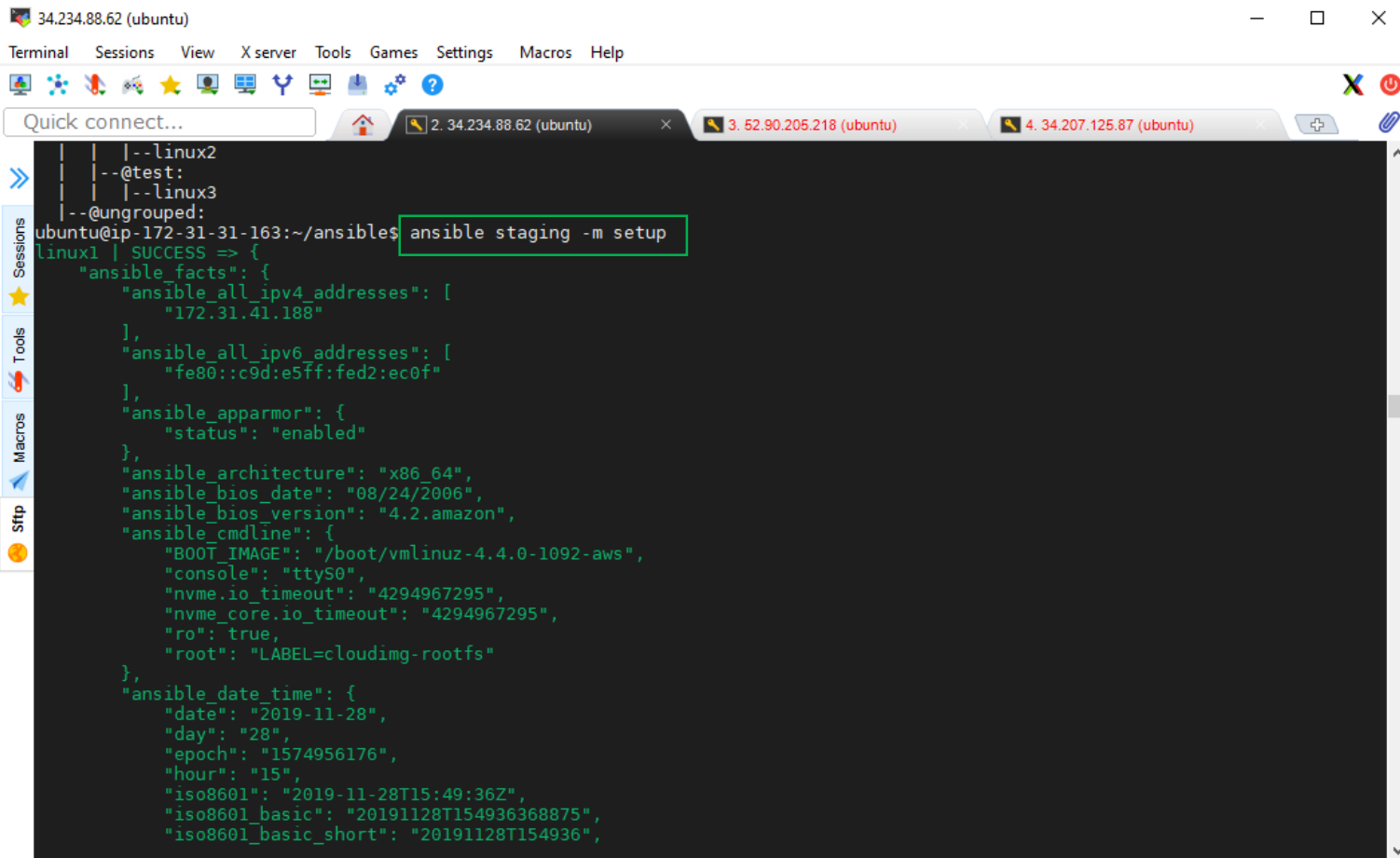
Quick connect...

2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu)

```
ubuntu@ip-172-31-31-163:~/ansible$ ansible-inventory --graph
graph TD
    all[all] --> staging[staging]
    all --> linux1[linux1]
    all --> test_prod[test_prod]
    all --> production[production]
    all --> ungrouped[ungrouped]
    test_prod --> production
    test_prod --> test[test]
    production --> linux2[linux2]
    ungrouped --> linux3[linux3]
```

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ANSIBLE



The screenshot shows a MobaXterm window titled "34.234.88.62 (ubuntu)". The window has a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. Below the toolbar is a "Quick connect..." search bar and three active session tabs: "2. 34.234.88.62 (ubuntu)", "3. 52.90.205.218 (ubuntu)", and "4. 34.207.125.87 (ubuntu)". On the left side, there is a sidebar with icons for Sessions, Tools, Macros, and Sftp. The main terminal area shows a shell prompt "ubuntu@ip-172-31-163:~/ansible\$" followed by the command "ansible staging -m setup". The command output is a JSON-formatted dictionary of system facts, including IP addresses, architecture, BIOS date, and date/time information. The command and its output are highlighted with a green rectangular selection box.

```
--linux2
--@test:
--linux3
--@ungrouped:
ubuntu@ip-172-31-163:~/ansible$ ansible staging -m setup
linux1 | SUCCESS => {
  "ansible_facts": {
    "ansible_all_ipv4_addresses": [
      "172.31.41.188"
    ],
    "ansible_all_ipv6_addresses": [
      "fe80::c9d:e5ff:fed2:ec0f"
    ],
    "ansible_apparmor": {
      "status": "enabled"
    },
    "ansible_architecture": "x86_64",
    "ansible_bios_date": "08/24/2006",
    "ansible_bios_version": "4.2.amazon",
    "ansible_cmdline": {
      "BOOT_IMAGE": "/boot/vmlinuz-4.4.0-1092-aws",
      "console": "ttyS0",
      "nvme.io_timeout": "4294967295",
      "nvme_core.io_timeout": "4294967295",
      "ro": true,
      "root": "LABEL=cloudimg-rootfs"
    },
    "ansible_date_time": {
      "date": "2019-11-28",
      "day": "28",
      "epoch": "1574956176",
      "hour": "15",
      "iso8601": "2019-11-28T15:49:36Z",
      "iso8601_basic": "20191128T154936368875",
      "iso8601_basic_short": "20191128T154936",
```

ANSIBLE

34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help



Quick connect...



2. 34.234.88.62 (ubuntu)



3. 52.90.205.218 (ubuntu)



4. 34.207.125.87 (ubuntu)



Sessions



Tools



Macros



Sftp



```
"ansible_user_gid": 1000,
"ansible_user_id": "ubuntu",
"ansible_user_shell": "/bin/bash",
"ansible_user_uid": 1000,
"ansible_userspace_architecture": "x86_64",
"ansible_userspace_bits": "64",
"ansible_virtualization_role": "guest",
"ansible_virtualization_type": "xen",
"discovered_interpreter_python": "/usr/bin/python3",
"gather_subset": [
    "all"
],
"module_setup": true
},
"changed": false
}
```

```
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m shell -a "uptime"
```

```
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

```
linux2 | CHANGED | rc=0 >>
```

```
15:53:07 up 1:01, 1 user, load average: 0.00, 0.00, 0.00
```

```
[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

```
linux3 | CHANGED | rc=0 >>
```

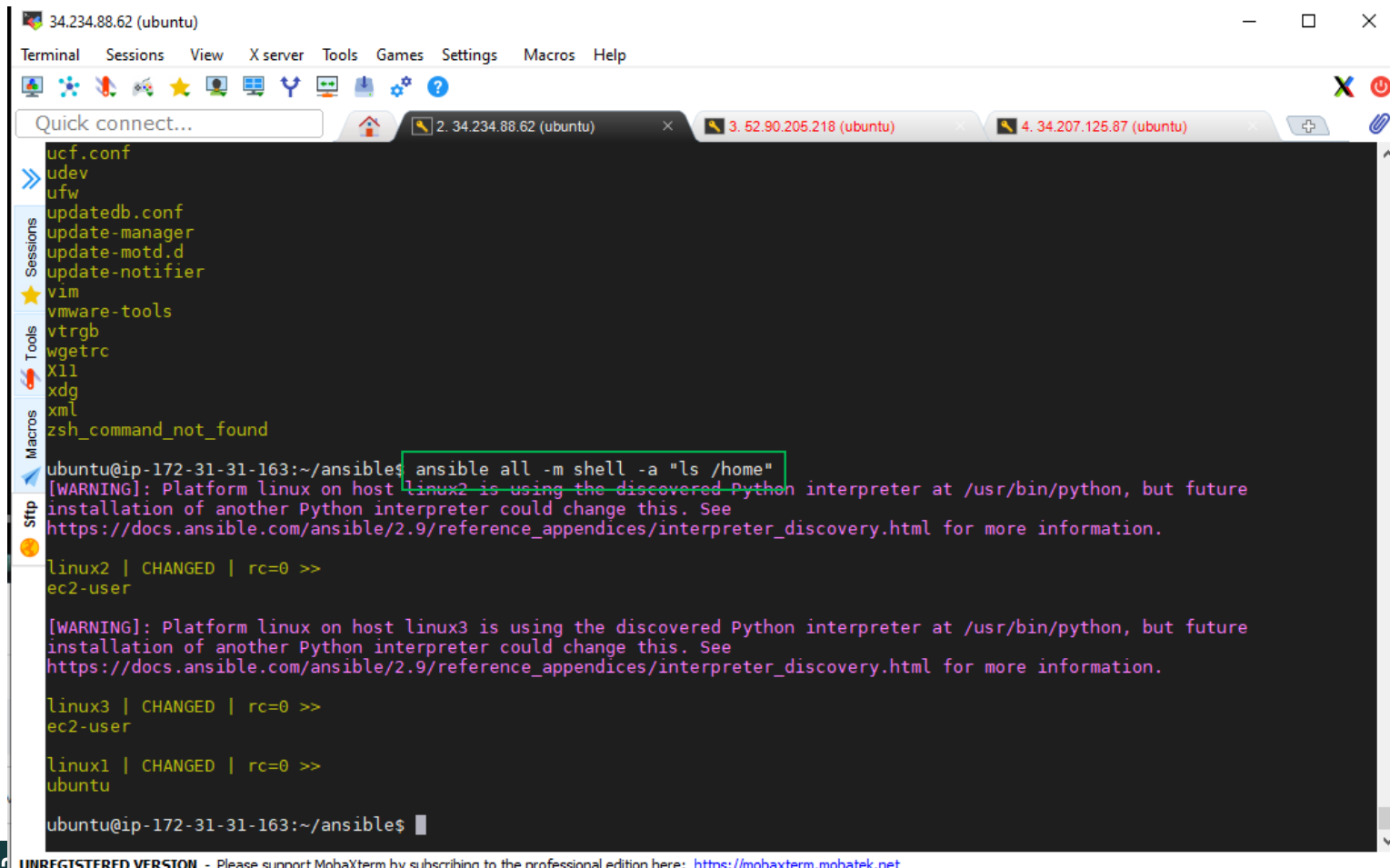
```
15:53:07 up 36 min, 1 user, load average: 0.00, 0.00, 0.00
```

```
linux1 | CHANGED | rc=0 >>
```

```
15:53:07 up 1:08, 1 user, load average: 0.00, 0.00, 0.00
```

```
ubuntu@ip-172-31-31-163:~/ansible$
```

ANSIBLE



The screenshot shows a MobaXterm window titled "34.234.88.62 (ubuntu)". The terminal displays a list of files in the current directory, including configuration files like `ucf.conf`, `udev`, `ufw`, `updatedb.conf`, `update-manager`, `update-motd.d`, `update-notifier`, and tools like `vim`, `vmware-tools`, `vtrgb`, `wgetrc`, `X11`, `xdg`, `xml`, and `zsh_command_not_found`. A command is entered: `ansible all -m shell -a "ls /home"`. The output shows the command being executed on hosts `linux2`, `linux3`, and `linux1`, all returning `ec2-user`. Warnings are displayed for `linux2` and `linux3` regarding the Python interpreter path. The terminal prompt is `ubuntu@ip-172-31-31-163:~/ansible$`.

```
34.234.88.62 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect... 2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu) 4. 34.207.125.87 (ubuntu)
ucf.conf
udev
ufw
updatedb.conf
update-manager
update-motd.d
update-notifier
vim
vmware-tools
vtrgb
wgetrc
X11
xdg
xml
zsh_command_not_found
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m shell -a "ls /home"
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | CHANGED | rc=0 >>
ec2-user

[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | CHANGED | rc=0 >>
ec2-user

linux1 | CHANGED | rc=0 >>
ubuntu
ubuntu@ip-172-31-31-163:~/ansible$
```

ANSIBLE

34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help



Quick connect...

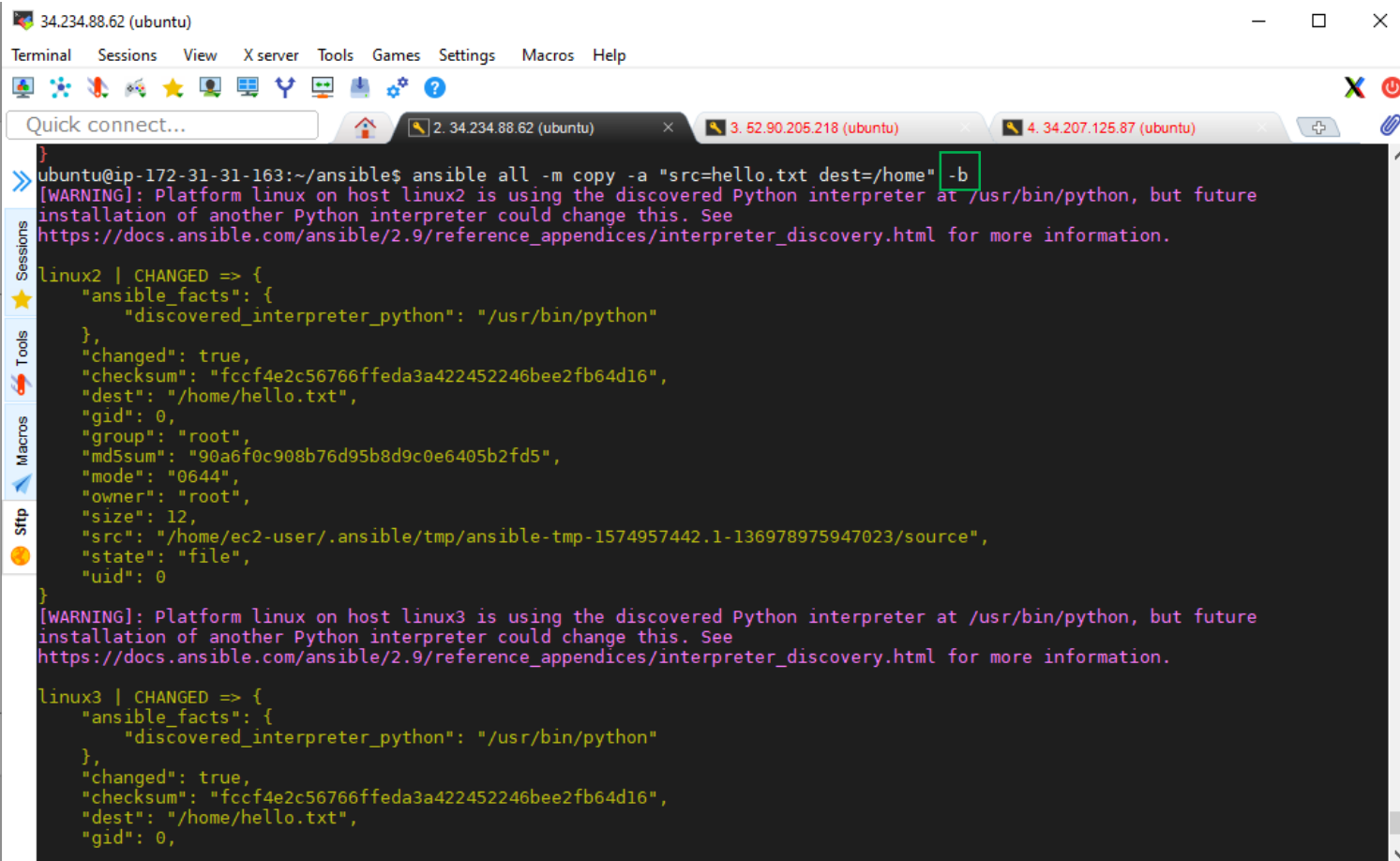
2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu) 4. 34.207.125.87 (ubuntu)

```
ubuntu@ip-172-31-31-163:~/ansible$ echo HelloWorld! > hello.txt
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m copy -a "src=hello.txt dest=/home"
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | FAILED! => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "msg": "Destination /home not writable"
}
[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | FAILED! => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "msg": "Destination /home not writable"
}
linux1 | FAILED! => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "msg": "Destination /home not writable"
}
ubuntu@ip-172-31-31-163:~/ansible$
```


ANSIBLE



The screenshot shows a MobaXterm window titled "34.234.88.62 (ubuntu)". The window has a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. Below the toolbar is a "Quick connect..." search bar and three active session tabs: "2. 34.234.88.62 (ubuntu)", "3. 52.90.205.218 (ubuntu)", and "4. 34.207.125.87 (ubuntu)". The main terminal area shows the following command and output:

```
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m copy -a "src=hello.txt dest=/home" -b
```

[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

```
linux2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "dest": "/home/hello.txt",
  "gid": 0,
  "group": "root",
  "md5sum": "90a6f0c908b76d95b8d9c0e6405b2fd5",
  "mode": "0644",
  "owner": "root",
  "size": 12,
  "src": "/home/ec2-user/.ansible/tmp/ansible-tmp-1574957442.1-136978975947023/source",
  "state": "file",
  "uid": 0
}
```

[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

```
linux3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "dest": "/home/hello.txt",
  "gid": 0,
```

ANSIBLE

34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help



Quick connect...

2. 34.234.88.62 (ubuntu) 3. 52.90.205.218 (ubuntu) 4. 34.207.125.87 (ubuntu)

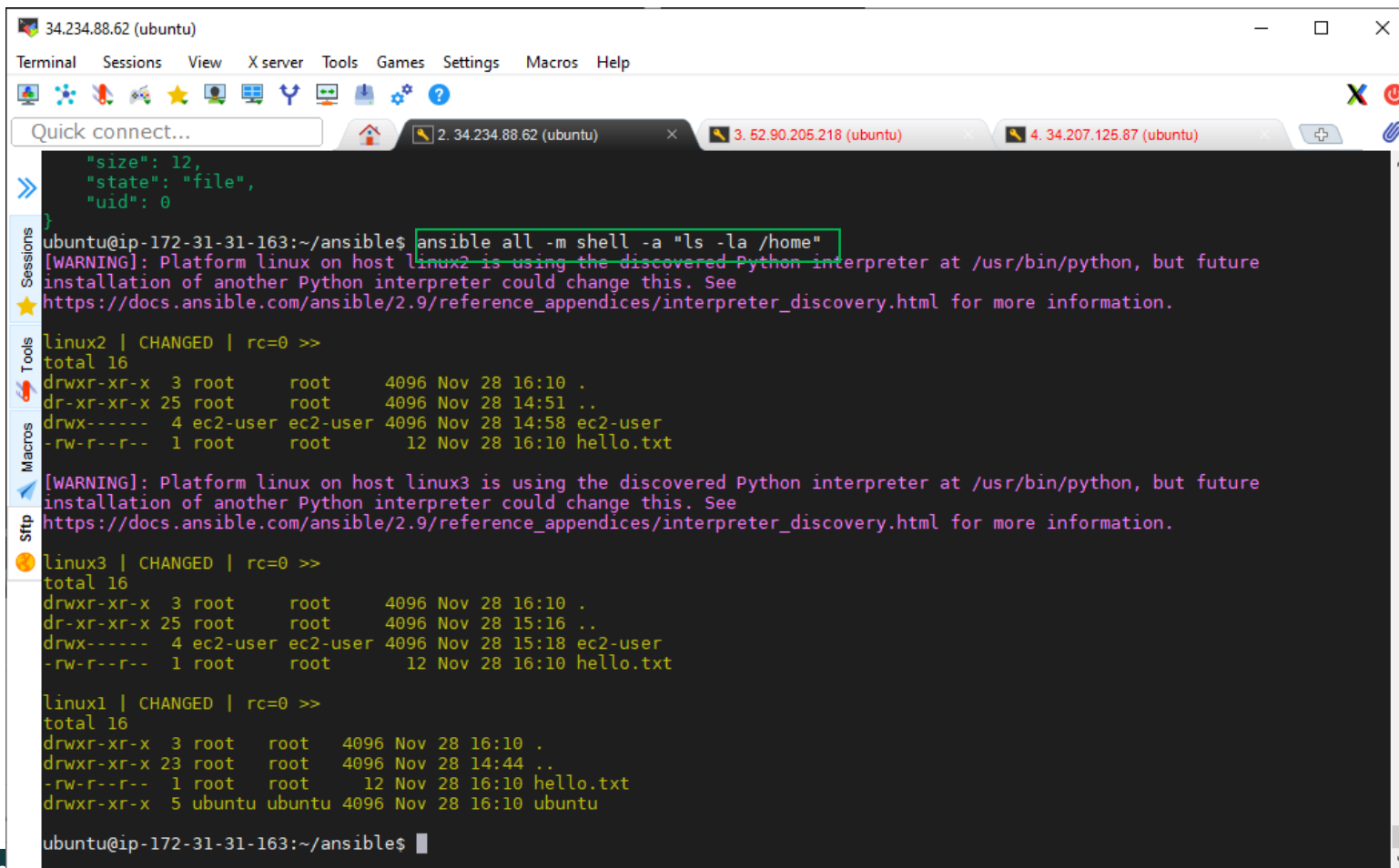
```
}
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m copy -a "src=hello.txt dest=/home" -b
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "checksum": "f4cf4e2c56766ffeda3a422452246bee2fb64d16",
  "dest": "/home/hello.txt",
  "gid": 0,
  "group": "root",
  "mode": "0644",
  "owner": "root",
  "path": "/home/hello.txt",
  "size": 12,
  "state": "file",
  "uid": 0
}

[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "checksum": "fccf4e2c56766ffeda3a422452246bee2fb64d16",
  "dest": "/home/hello.txt",
  "gid": 0,
  "group": "root",
```

ANSIBLE



The screenshot shows a MobaXterm window titled "34.234.88.62 (ubuntu)". The terminal displays the following content:

```
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m shell -a "ls -la /home"
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | CHANGED | rc=0 >>
total 16
drwxr-xr-x 3 root    root    4096 Nov 28 16:10 .
dr-xr-xr-x 25 root    root    4096 Nov 28 14:51 ..
drwx----- 4 ec2-user ec2-user 4096 Nov 28 14:58 ec2-user
-rw-r--r-- 1 root    root      12 Nov 28 16:10 hello.txt

[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | CHANGED | rc=0 >>
total 16
drwxr-xr-x 3 root    root    4096 Nov 28 16:10 .
dr-xr-xr-x 25 root    root    4096 Nov 28 15:16 ..
drwx----- 4 ec2-user ec2-user 4096 Nov 28 15:18 ec2-user
-rw-r--r-- 1 root    root      12 Nov 28 16:10 hello.txt

linux1 | CHANGED | rc=0 >>
total 16
drwxr-xr-x 3 root    root    4096 Nov 28 16:10 .
drwxr-xr-x 23 root    root    4096 Nov 28 14:44 ..
-rw-r--r-- 1 root    root      12 Nov 28 16:10 hello.txt
drwxr-xr-x 5 ubuntu  ubuntu  4096 Nov 28 16:10 ubuntu

ubuntu@ip-172-31-31-163:~/ansible$
```

The terminal output shows the execution of an Ansible command to run 'ls -la /home' on all hosts. The output is divided into three sections for hosts linux2, linux3, and linux1. Each section shows the command output and a warning about the Python interpreter used. The warning message is: "[WARNING]: Platform linux on host [hostname] is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information."

ANSIBLE

34.234.88.62 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help



Quick connect...

2. 34.234.88.62 (ubuntu)

3. 52.90.205.218 (ubuntu)

4. 34.207.125.87 (ubuntu)

```
>> ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m file -a "path=/home/hello.txt state=absent" -b
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

```
linux2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "path": "/home/hello.txt",
  "state": "absent"
}
```

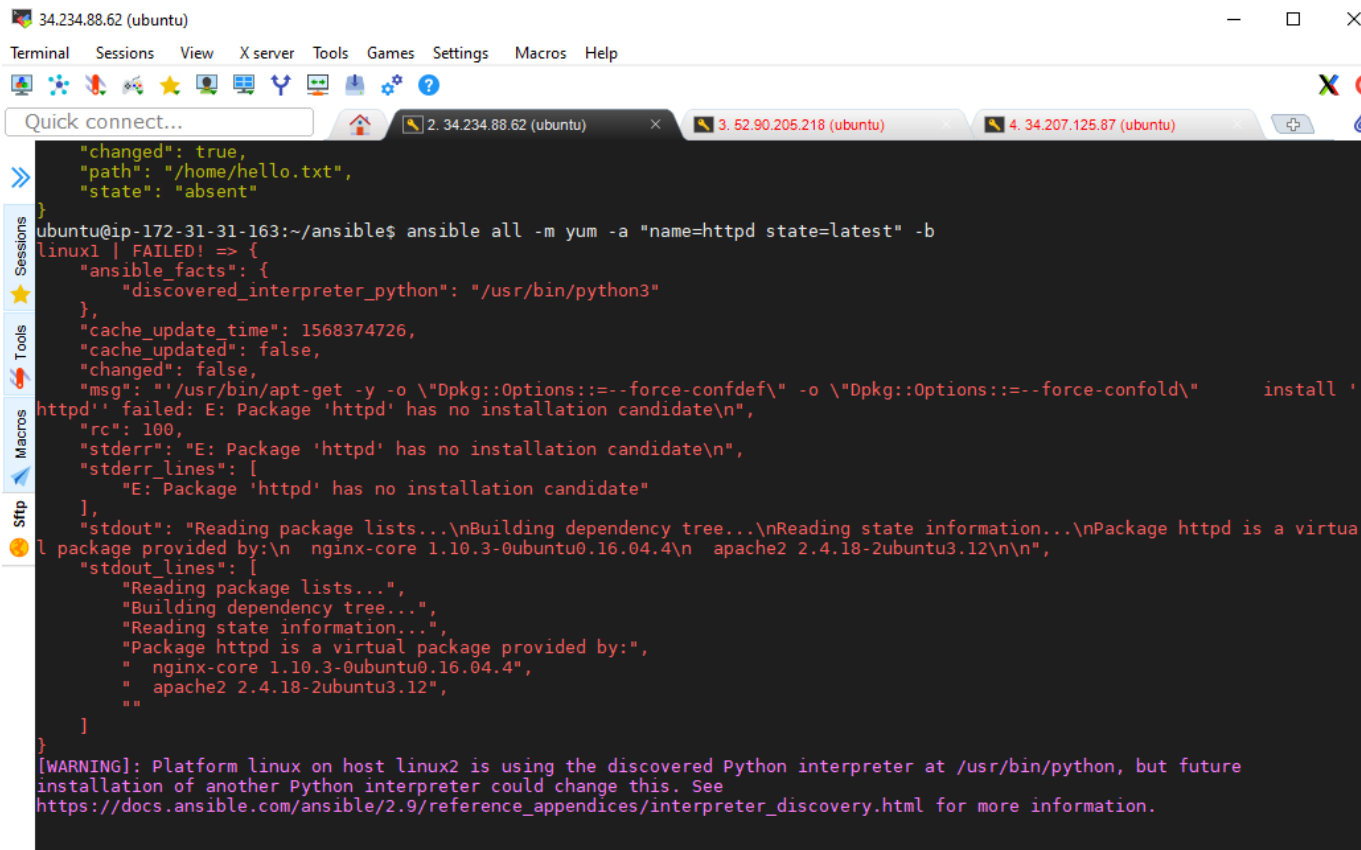
```
[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

```
linux3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "path": "/home/hello.txt",
  "state": "absent"
}
```

```
linux1 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": true,
  "path": "/home/hello.txt",
  "state": "absent"
}
```

```
ubuntu@ip-172-31-31-163:~/ansible$
```

ANSIBLE



The screenshot shows a MobaXterm terminal window with the title bar "34.234.88.62 (ubuntu)". The window has a menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar. Below the toolbar is a "Quick connect..." search bar and several tabs for different hosts: "2. 34.234.88.62 (ubuntu)", "3. 52.90.205.218 (ubuntu)", and "4. 34.207.125.87 (ubuntu)". On the left side, there is a vertical sidebar with icons for Sessions, Tools, Macros, and Sftp. The terminal itself has a dark background and displays the following text:

```
>>>
{"changed": true,
 "path": "/home/hello.txt",
 "state": "absent"
}
ubuntu@ip-172-31-31-163:~/ansible$ ansible all -m yum -a "name=httpd state=latest" -b
linux1 | FAILED! => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "cache_update_time": 1568374726,
  "cache_updated": false,
  "changed": false,
  "msg": "'/usr/bin/apt-get -y -o \"Dpkg::Options::=-force-confdef\" -o \"Dpkg::Options::=-force-confold\"      install '
httpd' failed: E: Package 'httpd' has no installation candidate\n",
  "rc": 100,
  "stderr": "E: Package 'httpd' has no installation candidate\n",
  "stderr_lines": [
    "E: Package 'httpd' has no installation candidate"
  ],
  "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nPackage httpd is a virtual
package provided by:\n  nginx-core 1.10.3-0ubuntu0.16.04.4\n  apache2 2.4.18-2ubuntu3.12\n\n",
  "stdout_lines": [
    "Reading package lists...",
    "Building dependency tree...",
    "Reading state information...",
    "Package httpd is a virtual package provided by:",
    "  nginx-core 1.10.3-0ubuntu0.16.04.4",
    "  apache2 2.4.18-2ubuntu3.12",
    ""
  ]
}
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

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34.234.88.62 (ubuntu)



Quick connect...

2. 34.234.88.62 (ubuntu)

3. 52.90.205.218 (ubuntu)

4. 34.207.125.87 (ubuntu)

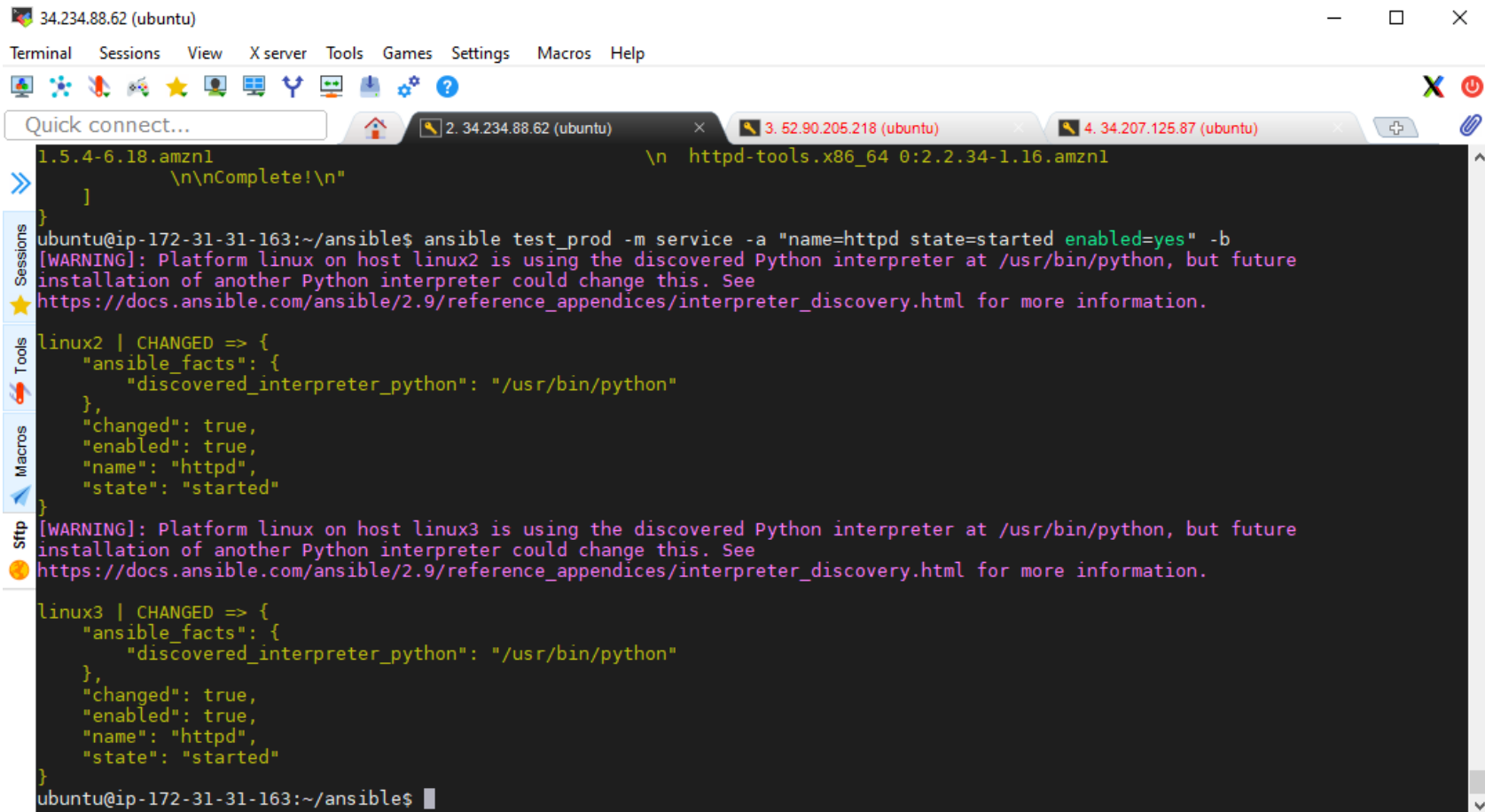
```
>> [WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
```

```

https://docs.ansible.com/ansible/2.9/reference_appendices/ansible_undefined_lookup.html for more information.
linux2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "changes": {
    "installed": [
      "httpd"
    ],
    "updated": []
  },
  "msg": "",
  "rc": 0,
  "results": [
    "Loaded plugins: priorities, update-motd, upgrade-helper\nResolving Dependencies\n--> Running transaction check\n--> Package httpd.x86_64 0:2.2.34-1.16.amzn1 will be installed\n--> Processing Dependency: httpd-tools = 2.2.34-1.16.amzn1 for package: httpd-2.2.34-1.16.amzn1.x86_64\n--> Processing Dependency: apr-util-ldap for package: httpd-2.2.34-1.16.amzn1.x86_64\n--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.2.34-1.16.amzn1.x86_64\n--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.2.34-1.16.amzn1.x86_64\n--> Running transaction check\n--> Package apr.x86_64 0:1.5.2-5.13.amzn1 will be installed\n--> Package apr-util.x86_64 0:1.5.4-6.18.amzn1 will be installed\n--> Package apr-util-ldap.x86_64 0:1.5.4-6.18.amzn1 will be installed\n--> Package httpd-tools.x86_64 0:2.2.34-1.16.amzn1 will be installed\n--> Finished Dependency Resolution\n\nDependencies Resolved\n\n=====
Package                                Arch          Version                                Repository    Size\n=====
Installing: httpd                       x86_64        2.2.34-1.16.amzn1                      x86_64
Installing dependencies: apr             x86_64        1.5.2-5.13.amzn1                      amzn-main
apr-util                               x86_64        1.5.4-6.18.amzn1                      amzn-main
apr-util-ldap                          x86_64        1.5.4-6.18.amzn1                      amzn-main
httpd-tools                             x86_64        2.2.34-1.16.amzn1                      amzn-main
Total download size: 1.5 M\nInstalled size: 3.6 M\nDownloading packages:
-----
1.7 MB/s | 1

```

ANSIBLE



The screenshot shows a MobaXterm window titled "34.234.88.62 (ubuntu)". The terminal displays the following content:

```
1.5.4-6.18.amzn1 \n httpd-tools.x86_64 0:2.2.34-1.16.amzn1
\n\nComplete!\n"
}
ubuntu@ip-172-31-31-163:~/ansible$ ansible test_prod -m service -a "name=httpd state=started enabled=yes" -b
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "enabled": true,
  "name": "httpd",
  "state": "started"
}
[WARNING]: Platform linux on host linux3 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

linux3 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "enabled": true,
  "name": "httpd",
  "state": "started"
}
ubuntu@ip-172-31-31-163:~/ansible$
```



This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

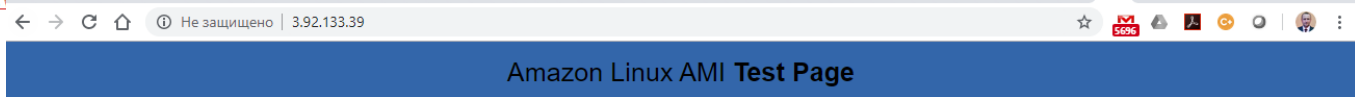
For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

For information on Amazon Linux AMI , please visit the [Amazon AWS](#).

If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server.



This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

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For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

For information on Amazon Linux AMI , please visit the [Amazon AWS website](#).

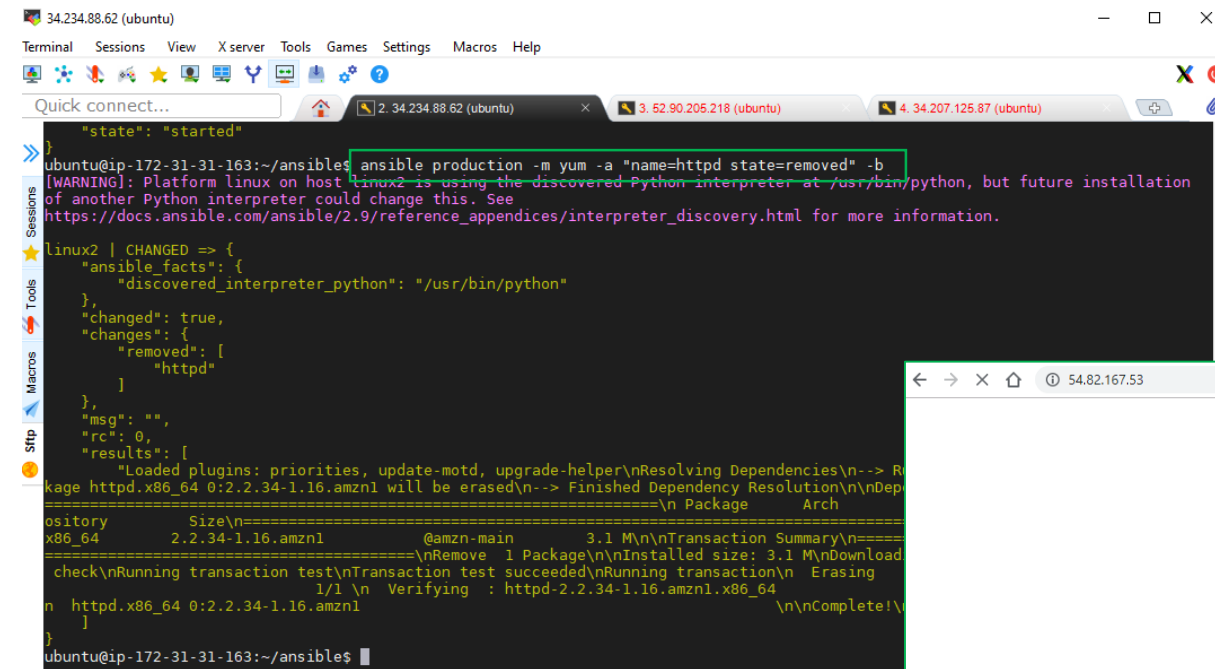
If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server.



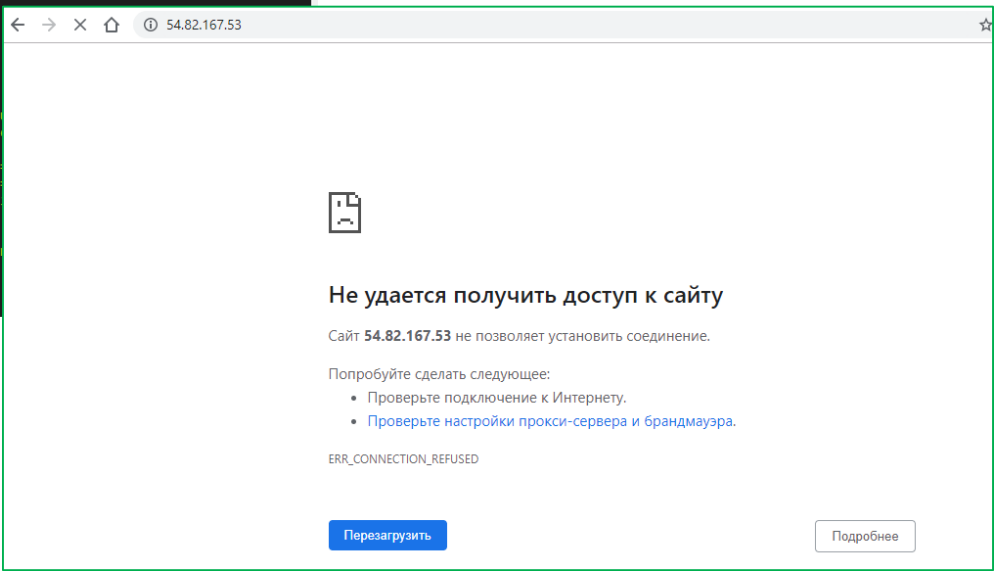
ANSIBLE



The screenshot shows a terminal window titled "34.234.88.62 (ubuntu)". The terminal displays the output of an Ansible command: `ansible production -m yum -a "name=httpd state=removed" -b`. The output indicates that the package `httpd.x86_64` was successfully removed. A warning message is also visible: `[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.`

```
"state": "started"
}
ubuntu@ip-172-31-31-163:~/ansible$ ansible production -m yum -a "name=httpd state=removed" -b
[WARNING]: Platform linux on host linux2 is using the discovered Python interpreter at /usr/bin/python, but future installation
of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
linux2 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": true,
  "changes": {
    "removed": [
      "httpd"
    ]
  },
  "msg": "",
  "rc": 0,
  "results": [
    "Loaded plugins: priorities, update-motd, upgrade-helper\nResolving Dependencies\n--> R
package httpd.x86_64 0:2.2.34-1.16.amzn1 will be erased\n--> Finished Dependency Resolution\n\nDep
=====
Repository      Size\nx86_64          2.2.34-1.16.amzn1      @amzn-main      3.1 M\n\nTransaction Summary\n-----\n\nRemove  1 Package\n\nInstalled size: 3.1 M\nDownload
check\nRunning transaction test\nTransaction test succeeded\nRunning transaction\nErasing
1/1 \n Verifying  : httpd-2.2.34-1.16.amzn1.x86_64
\n\nComplete!\n
]
}
ubuntu@ip-172-31-31-163:~/ansible$
```

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The screenshot shows a web browser window with the address bar displaying `54.82.167.53`. The page content indicates a connection error: "Не удастся получить доступ к сайту" (Unable to access the site). Below this, it states: "Сайт 54.82.167.53 не позволяет установить соединение." (Site 54.82.167.53 does not allow establishing a connection). It then suggests trying the following: "Попробуйте сделать следующее:" (Try the following):

- Проверьте подключение к Интернету. (Check the Internet connection.)
- Проверьте настройки прокси-сервера и брандмауэра. (Check the proxy server settings and firewall.)

At the bottom, the error code `ERR_CONNECTION_REFUSED` is displayed. There are two buttons: "Перезагрузить" (Reload) and "Подробнее" (More details).

Q&A



Thank you!