

Playbook that automatically connects to the multiple servers, switch to root and executes commands as a root

- name: Ping and gather info from remote servers

hosts: servers

gather_facts: no

become: yes

tasks:

- name: Ensure output directory exists

file:

path: "./server_info1"

state: directory

delegate_to: localhost

run_once: true

- name: Get hostname

command: hostname

register: hostname_output

- name: Get current date

command: date

register: date_output

- name: Ping the server

ping:

register: ping_output

- name: Get password file contents

command: cat /etc/passwd

register: pass_output

- name: Debug hostname_output

debug:

var: hostname_output

- name: Debug date_output

debug:

var: date_output

- name: Debug ping_output
 debug:
 var: ping_output
- name: Debug pass_output
 debug:
 var: pass_output
- name: Prepare output content
 set_fact:
 output_content: |
 Hostname: {{ hostname_output.stdout if hostname_output.stdout is defined else 'N/A' }}
 Date: {{ date_output.stdout if date_output.stdout is defined else 'N/A' }}
 Ping: {{ ping_output }}
 Password file: {{ pass_output.stdout if pass_output.stdout is defined else 'N/A' }}
- name: Display the outputs
 debug:
 msg: "{{ output_content.split('\n') }}"
- name: Save the output to local files
 copy:
 content: "{{ output_content }}"
 dest: "./server_info1/{{ ansible_host }}.txt"
 delegate_to: localhost

Output:

It creates a directory called `serverinfo1`, which contains text files that store information about the server. Each text file is named according to its corresponding public DNS IP address.

```
[ec2-user@ip-172-31-35-147 server_info1]$ cat 100.24.48.131.txt
Hostname: ip-172-31-36-49.ec2.internal
Date: Tue Oct 15 16:29:00 UTC 2024
Ping: {'ping': 'pong', 'failed': False, 'changed': False}
Password file: root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel overflow User:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/usr/sbin/nologin
systemd-oom:x:999:999:systemd Userspace OOM Killer:/usr/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/usr/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
libstoragemgmt:x:997:997:daemon account for libstoragemgmt:/usr/sbin/nologin
systemd-coredump:x:996:996:systemd Core Dumper:/usr/sbin/nologin
systemd-timesync:x:995:995:systemd Time Synchronization:/usr/sbin/nologin
chrony:x:994:994:chrony system user:/var/lib/chrony:/sbin/nologin
ec2-instance-connect:x:993:993::/home/ec2-instance-connect:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
tcpdump:x:72:72::/sbin/nologin
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
```

```
[ec2-user@ip-172-31-35-147 server_info1]$ cat 54.152.152.58.txt
Hostname: ip-172-31-35-147.ec2.internal
Date: Tue Oct 15 16:29:00 UTC 2024
Ping: {'ping': 'pong', 'failed': False, 'changed': False}
Password file: root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/usr/sbin/nologin
systemd-oom:x:999:999:systemd Userspace OOM Killer:/usr/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/usr/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
libstoragemgmt:x:997:997:daemon account for libstoragemgmt:/usr/sbin/nologin
systemd-coredump:x:996:996:systemd Core Dumper:/usr/sbin/nologin
systemd-timesync:x:995:995:systemd Time Synchronization:/usr/sbin/nologin
chrony:x:994:994:chrony system user:/var/lib/chrony:/sbin/nologin
ec2-instance-connect:x:993:993::/home/ec2-instance-connect:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
tcpdump:x:72:72::/sbin/nologin
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
```