



```
No packages needed for security; 7 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-8-110 ~]$
[root@ip-172-31-8-110 ~]$
[root@ansible-server ~]$
[ro
```

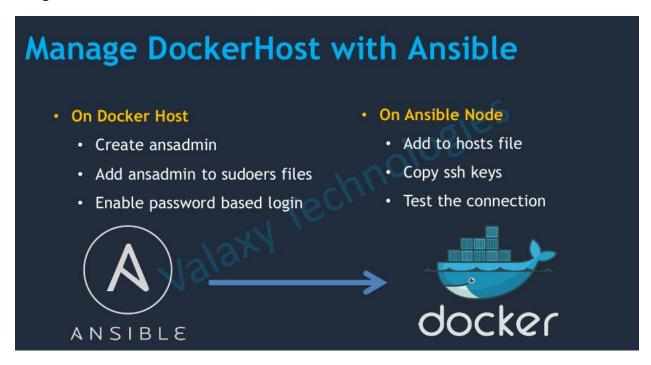
Login as ansadmin

```
| Consideration | Consideratio
```

Now, install ansible

```
[root@ansible-server ~]# amazon-linux-extras install ansible2
Topic ansible2 has end-of-support date of 2023-09-30
Installing ansible
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-ansible2 amzn2extra-docker amzn2extra-kernel-5.10
17 metadata files removed
6 sqlite files removed
0 metadata files removed
10 metadata fil
```

Integrate Docker with Ansible



On Docker machine perform above step

```
[root@docker ~]# useradd ansadmin
[root@docker ~]# passwd ansadmin
Changing password for user ansadmin.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@docker ~]#
[root@docker ~]#
[root@docker ~]# vim /etc/sudoers
[root@docker ~]#
[root@docker ~]#
[root@docker ~]#
[root@docker ~]# grep Password /etc/ssh/sshd_config
PasswordAuthentication yes
#PermitEmptyPasswords no
#PasswordAuthentication no
#PasswordAuthentication. Depending on your PAM configuration,
# PAM authentication, then enable this but set PasswordAuthentication
[root@docker ~]#
[root@docker ~]#
[root@docker ~]#
```

```
oot@ansible-server ansible]# cat /etc/ansible/hosts
  [root@ansible-server ansible]#
  [rootgans tote-server ans tote]# sudo su - ansadmin

Last login: Fri May 17 10:55:56 UTC 2024 from 202.131.97.210 on pts/1

[ansadmin@ansible-server ~]$

[ansadmin@ansible-server ~]$ ls -la
total 12
drwx----- 3 ansadmin ansadmin 74 May 17 11:01 .
drwxr-xr-x 4 root root 38 May 17 10:53 .
-rw-r--r-- 1 ansadmin ansadmin 18 Jul 15 2020 .bash_logout
-rw-r--r-- 1 ansadmin ansadmin 193 Jul 15 2020 .bash_profile
-rw-r--r-- 1 ansadmin ansadmin 231 Jul 15 2020 .bashrc
drwx----- 2 ansadmin ansadmin 38 May 17 11:01 .ssh
  total 12
drwx------ 2 ansadmin ansadmin 38 May 17 11:01 .ssh

[ansadmin@ansible-server ~]$

[ansadmin@ansible-server ~]$ cd .ssh/ls
-bash: cd: .ssh/ls: No such file or directory

[ansadmin@ansible-server ~]$ cd .ssh/

[ansadmin@ansible-server .ssh]$ ls

id_rsa id_rsa.pub

[ansadmin@ansible-server .ssh]$

[ansadmin@ansible-server .ssh]$

[ansadmin@ansible-server .ssh]$ ssh-copy-id 172.31.36.247

/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansadmin/.ssh/id_rsa.pub"

The authenticity of host '172.31.36.247 (172.31.36.247)' can't be established.

ECDSA key fingerprint is SHA256:908WqnNhzuGJ3fyb7E8zK3vxYYe4RxcmjXLovcsVDGY.

ECDSA key fingerprint is MD5:e8:d9:49:ad:d4:96:69:ee:14:59:6b:20:00:fe:44:cb.

Are you sure you want to continue connecting (yes/no)? yes

/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed

/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys ansadmin@172.31.36.247's password:
 Number of key(s) added: 1
Now try logging into the machine, with: "ssh '172.31.36.247'" and check to make sure that only the key(s) you wanted were added.
  [ansadmin@ansible-server .ssh]$
[ansadmin@ansible-server .ssh]$ ssh 172.31.36.247
                       ####
                                                               Amazon Linux 2
                    \_#####\
                                                               AL2 End of Life is 2025-06-30.
                            \###|
                                 \#/
V~' '->
                                                               A newer version of Amazon Linux is available!
                                                               Amazon Linux 2023, GA and supported until 2028-03-15.
                                                                    https://aws.amazon.com/linux/amazon-linux-2023/
No packages needed for security; 7 packages available
Run "sudo yum update" to apply all updates.
[ansadmin@docker ~]$
[ansadmin@docker ~]$ exit
  Connection to 172.31.36.247 closed.
[ansadmin@ansible-server .ssh]$ |
```

Check on docker machine ansadmin user

```
[ansadmin@ansible-server ~]$ ansible all -m ping
[WARNING]: Platform linux on host 172.31.36.247 is using the discovered Python interpreter at /usr/bin/python, but
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.36.247 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
[ansadmin@ansible-server ~]$
```

```
[ansadmin@ansible-server ~]$
[ansadmin@ansible-server ~]$ ansible all -m command -a uptime
[WARNING]: Platform linux on host 172.31.36.247 is using the discovered Python interpreter at /usr/bin/python, but https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

172.31.36.247 | CHANGED | rc=0 >>
11:31:38 up 1 day, 4:07, 2 users, load average: 0.00, 0.00, 0.00
[ansadmin@ansible-server ~]$
```

Integrate Ansible with Jenkins.



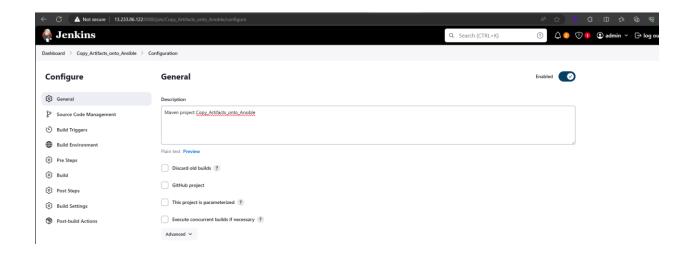
Configure Ansible host machine into jenkins

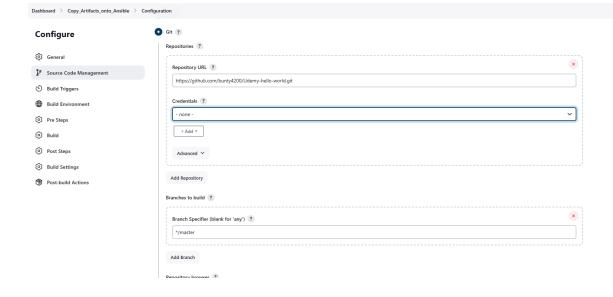
Dashboard > Manage Jenkins > System > = SSH Server Name		
Name ? ansible-server Hostname ? 172.31.8.110 Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced ~ Avoid sending files that have not changed ? Pasphrace / Password authentication, or use a different key ? Pasphrace / Password ?	Dashboard > Man	age Jenkins > System >
Name ? ansible-server Hostname ? 172.31.8.110 Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced ~ Actified User asserved authentication or use a different key ? Passphrame / Password ?		T
Name ? ansible-server Hostname ? 172,31,8,110 Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced \times Advan		≡ SSH Server
ansible-server Hostname ? 172.31.8.110 Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced \sigma Edited Advanced \sigma Edited Use password authentication, or use a different key ? Pasphrase / Password ?		
Hostname ? 172.31.8.110 Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced \times Edited Use password authentication, or use a different key ? Passphrase / Password ?		Name (?
Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced > Advanced > Edited Use password authentication, or use a different key ? Passphrase / Password ?		ansible-server
Avoid sending files that have not changed ? Advanced \ Advanced \ Edited Advanced \ Password authentication, or use a different key ? Passphrase / Password ?		
Username ? ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced > Advanced > Edited Use password authentication, or use a different key ? Passphrase / Password ?		Hostname ?
ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced \(\text{Advanced} \) Avoid sending files that have not changed ? Advanced \(\text{\$\sigma} \) Edited Use password authentication, or use a different key ? Passphrase / Password ?		172.31.8.110
ansadmin Remote Directory ? Avoid sending files that have not changed ? Advanced \(\text{Advanced} \) Avoid sending files that have not changed ? Advanced \(\text{\$\sigma} \) Edited Use password authentication, or use a different key ? Passphrase / Password ?		
Remote Directory ? Avoid sending files that have not changed ? Advanced \times Edited Use password authentication, or use a different key ? Passphrase / Password ?		Username ?
Avoid sending files that have not changed ? Advanced Advanced Edited Use password authentication, or use a different key ? Passphrase / Password ?		ansadmin
Avoid sending files that have not changed ? Advanced Advanced Edited Use password authentication, or use a different key ? Passphrase / Password ?		
Advanced Avoid sending files that have not changed Advanced Advanced Edited Use password authentication, or use a different key Passphrase / Password Fassword Limits of the control of the con		Remote Directory ?
Advanced > Avoid sending files that have not changed ? Advanced ^		
Advanced Advanced Advanced Advanced Advanced Edited Use password authentication, or use a different key Passphrase / Password		
Avoid sending files that have not changed ? Advanced ^		Avoid sending files that have not changed ?
Avoid sending files that have not changed ? Advanced ^		
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Advanced ^		
Advanced A P Edited Use password authentication, or use a different key ? Passphrase / Password ?		
Use password authentication, or use a different key ? Passphrase / Password ?	Avoid sending fi	les that have not changed ?
Use password authentication, or use a different key ? Passphrase / Password ?	Advanced A	2 Editod
Passphrase / Password ?	Advanced	Linica
	_	
	Passphrase	/ Password ?
Path to key ?		
	Path to kev	9
	: 1 1	

Create docker directory giving chown permission.

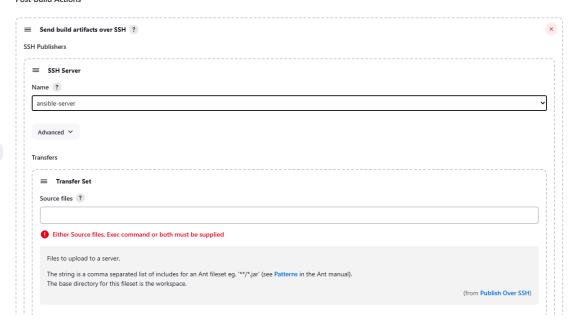
```
[ansadmin@ansible-server ~]$ cd /opt/
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ ls
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ sudo mkdir docker
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ ls -la
total 0
drwxr-xr-x 5 root root 41 May 17 11:41 .
dr-xr-xr-x 18 root root 257 May 17 04:11 ...
drwxr-xr-x 4 root root 33 May 3 23:45 aws
drwxr-xr-x 2 root root 6 May 17 11:41 docker
drwxr-xr-x 2 root root 6 Aug 16 2018 rh
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ sudo chown ansadmin:ansadmin docker
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ ls -la
total 0
drwxr-xr-x 5 root
                         root
                                   41 May 17 11:41 .
dr-xr-xr-x 18 root
                        root
                                  257 May 17 04:11 ...
drwxr-xr-x 4 root
                        root
                                   33 May 3 23:45 aws
drwxr-xr-x 2 ansadmin ansadmin 6 May 17 11:41 docker
drwxr-xr-x 2 root root
                                    6 Aug 16 2018 rh
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$
```

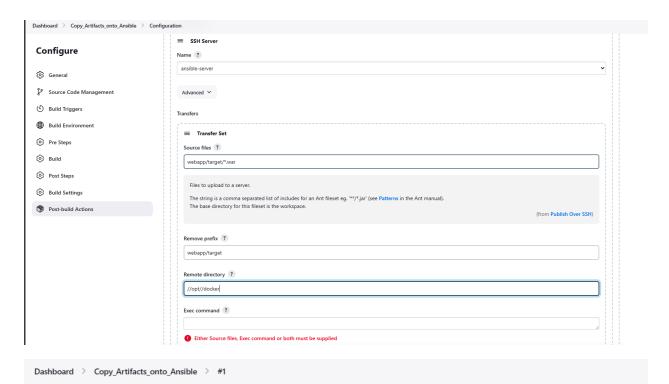
Now, create Jenkins Job

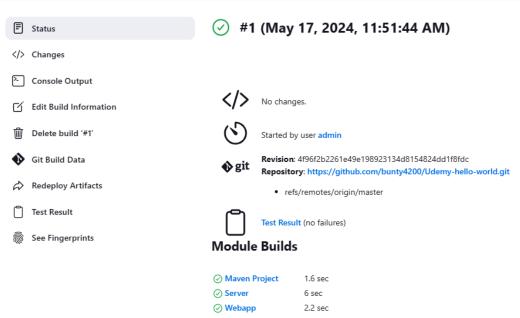




Post-build Actions







```
[ansadmin@ansible-server opt]$ ls -la
total 0
drwxr-xr-x 5 root
dr-xr-xr-x 18 root
                                               41 May 17 11:41 .
                                 root
                                              257 May 17 04:11 ..
33 May 3 23:45 aws
6 May 17 11:41 docker
                                 root
drwxr-xr-x 4 root root
drwxr-xr-x 2 ansadmin ansadmin
drwxr-xr-x 2 root root
[ansadmin@ansible-server opt]$
                                                 6 Aug 16 2018 rh
[ansadmin@ansible-server opt]$ ls
[ansadmin@ansible-server opt]$
[ansadmin@ansible-server opt]$ cd docker/
[ansadmin@ansible-server docker]$ ls
webapp.war
[ansadmin@ansible-server docker]$
[ansadmin@ansible-server docker]$
[ansadmin@ansible-server docker]$
```