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1: =====> Ansible Control and Client Node Setup <=====
2:
3: Requirments:
4: -----
5:
6:     1. Ansible control node: CentOS 7
7:     2. Client node-1: Ubuntu 22.04 LTS
8:     3. Clent node-1: CentOS 7
9:
10:
11: > Install centos 7 as master node on virtualbox.
12:
13: > Install centos 7 and ubuntu 22.04 as client node.
14:
15: Ansible master node:
16: -----
17: > Basic setup for ansible master node:
18:     > Configure IP address
19:         nmtui
20:     > Install basic necessary packages
21:         yum install vim curl wget open-vm-tools -y
22:     > Disable selinux security policy
23:         vim /etc/selinux/config
24:     > Disable firewalld
25:         systemctl stop firewalld
26:         systemctl disable firewalld
27:     > Setup node hostname
28:         vim /etc/hostname
29:
30: ansible-master.localdomain
31:
32:     > Setup local dns name resolution
33:         vim /etc/hosts
34:
35: 192.168.55.100  ansible-master.localdomain  ansible-master
36: 192.168.55.200  centosclient-1.localdomain  centosclient-1
37: 192.168.55.201  ubuntuclient-1.localdomain  ubuntuclient-1
38:
39: > Create a user for deployment "username = ansible"
40:     useradd ansible
41:
42: > Switch to "ansible" user
43:     su - ansible
44:
45: > Setup key base password less authentication
46:     ssh-keygen
47:
48:
49: Client node setup:
50: -----
51: > Check the internet connectivity first
52:
53: > Setup hostname
54:     vim /etc/hostname
55:
56: ubuntuclient-2.localdomain
57:
58: > Setup local dns name resolution
59:     vim /etc/hosts
60:
61: 192.168.55.100  ansible-master.localdomain  ansible-master
62: 192.168.55.200  centosclient-1.localdomain  centosclient-1
63: 192.168.55.201  ubuntuclient-2.localdomain  ubuntuclient-2
64:
65: > Create a user for deployment "username = ansible"

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66:     useradd ansible
67: > Update sudoers file for passwordless authentication
68:     vim /etc/sudoers.d/ansible
69:
70:     add this line:
71:     ansible          ALL=(ALL)          NOPASSWD: ALL
72:
73: > Switch to ansible user for keybase authentication
74:     su - ansible
75: > Create .ssh directory at ansible user home
76:     mkdir .ssh
77:     cd .ssh
78:     vim authorized_keys #[copy id_rsa.pub from master-node "ansible" user to all
client-node as authorized_keys]
79:
80: > Change permission for .ssh directory
81:     chmod 700 .ssh
82:     chmod 600 authorized_keys
83:
84: =====> Ansible installation and configuration <=====
85:
86: Ansible master node:
87: -----
88: > Install Ansible on master node using epel repository.
89:     yum install epel-release -y
90:     yum install ansible -y
91:
92: > Configure ansible.cfg file
93:     vim /etc/ansible/ansible.cfg
94:
95: > configure inventory file
96:     vim /etc/ansible/hosts
97:
98:
99:
```