ASSIGNMENT - 6

**Setup:** The assignment has been done using vagrant setup.

1. **Code-**

---

- name : Create users in server

hosts: assignment

remote\_user: ansible

become: yes

become\_method: sudo

gather\_facts: true

connection: ssh

tasks:

- name: Add group "Automation" to server

group :

name: Automation

state: present

register: grp1

- name: Add user "usr1" to server

user:

name: usr1

comment: "UnPrivileged User"

uid: 2001

group: Automation

shell: /bin/bash

generate\_ssh\_key: yes

ssh\_key\_bits: 2048

ssh\_key\_file: .ssh/id\_rsa

register: usr1

- name: Add user "usr2" to server

user:

name: usr2

comment: "UnPrivileged User"

uid: 2002

group: Automation

shell: /bin/bash

generate\_ssh\_key: yes

ssh\_key\_bits: 2048

ssh\_key\_file: .ssh/id\_rsa

register: usr2

- name: output user variables

debug:

msg: "{{ ansible\_hostname }} : Groupname\*ID is {{ grp1.name }}\*{{ grp1.gid }}.The user1 name\*group is {{ usr1.name }}\*{{usr1.group}}. User2 name\*group is {{usr2.name}}\*{{usr2.group

**Output –**

**A picture containing graphical user interface

Description automatically generated**

1. **Code**
2. ---
3. ### Install Apache2
4. - name: Installing apache2
5. hosts: webserver
6. become: yes
7. tasks:
8. - name: install apache2
9. apt: name=apache2 update\_cache=yes state=latest
10. - name: enabled mod\_rewrite
11. apache2\_module: name=rewrite state=present
12. notify:
13. - restart apache2
14. handlers:
15. - name: restart apache2
16. service: name=apache2 state=restarted
17. #### Play to Copy file from webserver to webclient
18. - name: Installing sshpass for running scp
19. hosts: assignment
20. become: yes
21. tasks:
22. - name: install sshpass
23. apt: name=sshpass update\_cache=yes state=latest
24. - name: Configure SSH configuration
25. hosts: webclient1
26. tasks:
27. - name: Creating a ssh config file with content to bypass ECDSA fingerprint
28. copy:
29. dest: "~/.ssh/config"
30. content: |
31. Host \*
32. StrictHostKeyChecking no
33. UserKnownHostsFile=/dev/null
34. - name: Copy file from webserver to webclient
35. hosts: webclient1
36. tasks:
37. - name: Copy file to another server
38. shell: "sshpass -p vagrant scp vagrant@192.168.50.4:/var/www/html/index.html /home/vagrant/ |cat"
39. - name: Copy index.html from webclient1 to base machine
40. hosts: webclient1
41. gather\_facts: no
42. tasks:
43. - name: ansible copy file from remote to local.
44. fetch:
45. src: /home/vagrant/index.html
46. dest: index.html
47. flat: yes
48. ###### Installing and setting up MySql ####### We won't add sshpass because it makes it too easy for novice SSH users to ruin SSH's security.
49. - hosts: webserver
50. vars:
51. mysql\_root\_password: test
52. tasks:
53. - name: Install MySQL
54. apt: name={{ item }} update\_cache=yes cache\_valid\_time=3600 state=present
55. become: yes
56. with\_items:
57. - python-mysqldb
58. - mysql-server
59. - name: Start the MySQL service
60. become: yes
61. service:
62. name: mysql
63. state: started
64. enabled: true
65. - name: update mysql root password for all root accounts
66. become: yes
67. mysql\_user:
68. name: root
69. host: "{{ item }}"
70. password: "{{ mysql\_root\_password }}"
71. login\_user: root
72. login\_password: "{{ mysql\_root\_password }}"
73. check\_implicit\_admin: yes
74. priv: "\*.\*:ALL,GRANT"
75. with\_items:
76. - "{{ ansible\_hostname }}"
77. - 127.0.0.1
78. - ::1
79. - localhost
80. - name: Create database user with name 'sid' and password '12345' with all database privileges
81. community.mysql.mysql\_user:
82. login\_user: root
83. login\_password: "{{ mysql\_root\_password }}"
84. name: sid
85. password: 12345
86. priv: "\*.\*:ALL"
87. state: present
88. - name: Create a new database with name 'Assignment 4'
89. community.mysql.mysql\_db:
90. login\_user: root
91. login\_password: "{{ mysql\_root\_password }}"
92. name: Assignment4
93. state: present
94. - name: create a table in mysql\_databases
95. community.mysql.mysql\_query:
96. login\_user: root
97. login\_password: "{{ mysql\_root\_password }}"
98. login\_db: Assignment4
99. query: create table Automation (Name varchar(255), Address varchar(255))
101. - name: Add entry to table
102. community.mysql.mysql\_query:
103. login\_user: root
104. login\_password: "{{ mysql\_root\_password }}"
105. login\_db: Assignment4
106. query: insert into Automation values("sid","Test Address")
108. - name : Register query output to a variable
109. community.mysql.mysql\_query:
110. login\_user: root
111. login\_password: "{{ mysql\_root\_password }}"
112. login\_db: Assignment4
113. query: select \* from Automation
114. register: result
116. - name: Export table query to file
117. copy:
118. content="{{ result.query\_result }}"
119. dest=database.txt
120. delegate\_to: localhost

**Output**

**Background pattern

Description automatically generated**

**Text

Description automatically generated with medium confidence**

**Webpage:**

**Graphical user interface, text, application, email

Description automatically generated**

**Database.txt:**

**Text

Description automatically generated**

**Adhoc:**

Text

Description automatically generated

Text

Description automatically generated