DB Runbook

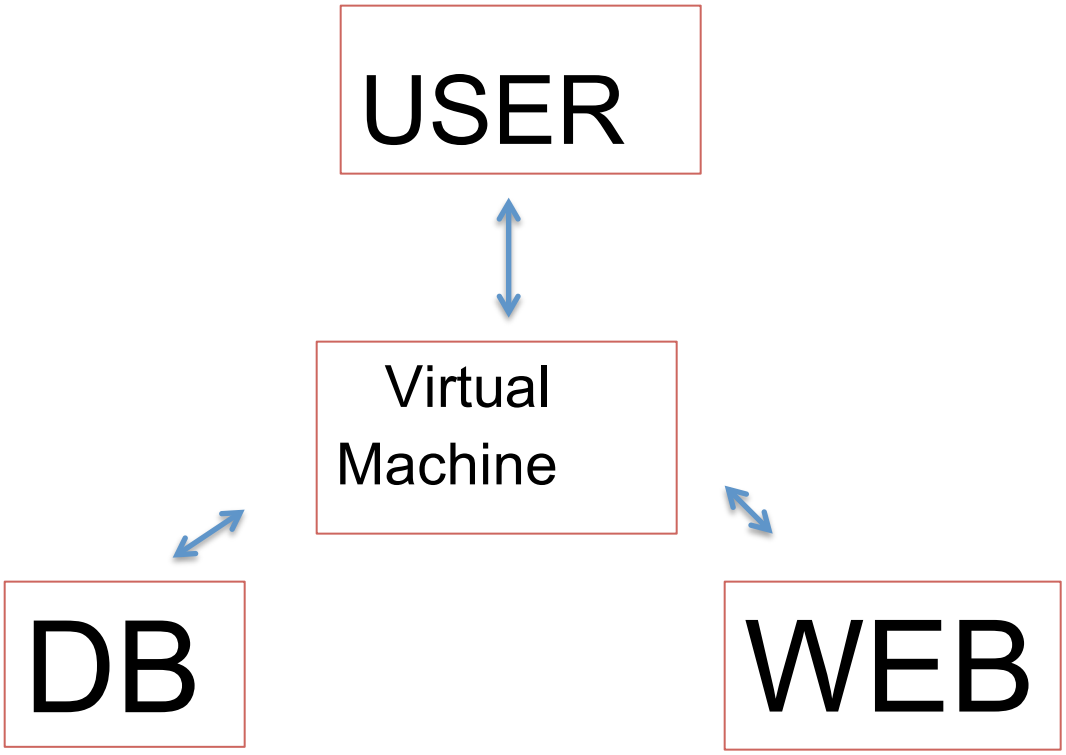
Short Description

Installs MariaDB and MySQL while making a database.

Required Software

MariaDB-server, MariaDB-client, mysql_secure_installation

Architecture Diagram



Deployment

```
ansible-playbook -i hosts.ini db.yml --ask-vault-pass
Vault password: secret
PLAY [db]
*****************************************************************
***********

TASK [setup]
*****************************************************************
********
ok: [localhost]

TASK [Copying MariaDB Repositories]
*******************************************
copy: src=db/MariaDB.repo
dest=/etc/yum.repos.d/MariaDB.repo mode=0644
ok: [localhost]

TASK [Installing and Updating MariaDB/Client]
**********************************
become: yes
yum: name=MariaDB-server,MariaDB-client update_cache=yes
state=present
ok: [localhost]

TASK [Starting MariaDB]
*************************************************************
become: yes
      service: name=mariadb state=started enabled=yes
ok: [localhost]

TASK [Copying new MariaDB_Answers.txt]
*****************************************
template: src=db/mariadb_answers.txt
```

```
dest=/tmp/mariadb_answers.txt mode=0644
ok: [localhost]

TASK [Executing MySQL Installation]
*******************************************
become: yes
      shell: /usr/bin/mysql_secure_installation
</tmp/mariadb_answers.txt
changed: [localhost]

TASK [Extracting db.tgz to ~/]
************************************************
unarchive: src=db/db.tgz dest=~/
ok: [localhost]

TASK [Making Database]
*********************************************************
command: ./make_databases.sh {{ db_password }} localhost
chdir=~/db
      ignore_errors: True
fatal: [localhost]: FAILED! => {"changed": true, "cmd":
["./make_databases.sh", "password", "localhost"], "delta":
"0:00:00.141511", "end": "2016-09-27 04:05:50.051942",
"failed": true, "rc": 1, "start": "2016-09-27
04:05:49.910431", "stderr": "ERROR 1045 (28000): Access
denied for user 'root'@'localhost' (using password:
YES)\nERROR 1045 (28000): Access denied for user
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password: YES)\nERROR 1045 (28000): Access denied for user
'root'@'localhost' (using password: YES)", "stdout":
"Dumping into bedrock\nDumping into omar\nDumping into
nemo\nDumping into curriculum", "stdout_lines": ["Dumping
into bedrock", "Dumping into omar", "Dumping into nemo",
"Dumping into curriculum"], "warnings": []}
...ignoring
```

Issues

Please specify any issues that might occur that would cause the service to not work properly. For example, what should you do if the service process dies or what should be done if the logs fill up the disk?

Title: hosts.ini file incorrect
Description: If your hosts.ini file is incorrect and you don't have the right variables in the script, it can create problems connecting to the SSH server needed to run the tasks.
Remediation Steps: ansible_connection=local solved my hosts.ini file and made it able to connect to the SSH server. Also adding ansible_ssh_user="USER" and ansible_ssh_password="PASSWORD" might solve the issue as well.

Title: No secrets
Description: When the user doesn't input the –ask-vault-pass DB won't work correctly. They will ask for db_password in DB which will interrupt the playbook and run unsuccessful.
Remediation Steps: Make sure to always type –ask-vault-pass or put the vars you need in vars: with db_password: password.

Title: Internet Access
Description: If the user doesn't have Internet access they wont be able to download and update MariaDB/Client. On the second task the playbook will use yum and install MariaDB-server, and MariaDB-client
Remediation Steps: Find any convenient wireless network source and try to run the task as fast as possible.