

# DB Runbook

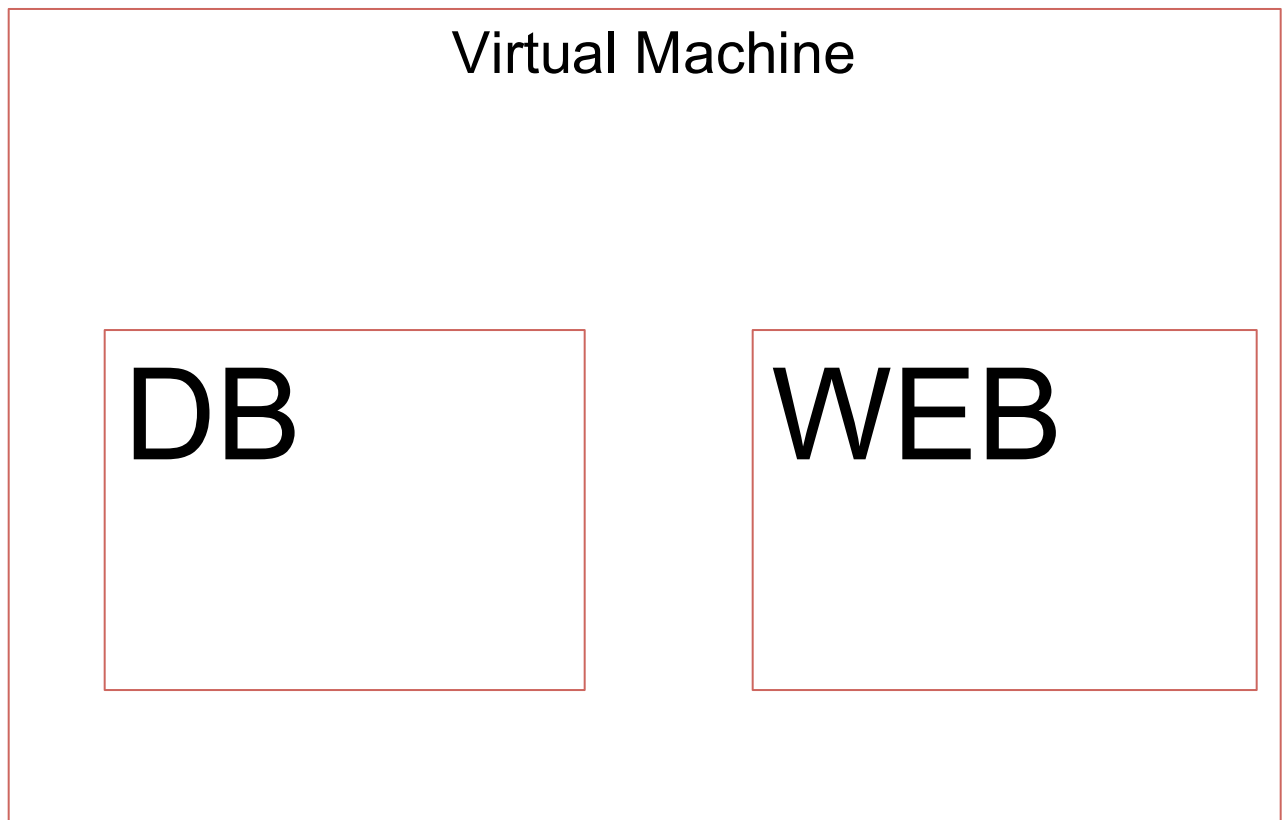
## Short Description

*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  
'root'@'localhost' (using password: YES)\nERROR 1045  
(28000): Access denied for user 'root'@'localhost' (using  
password: YES)\nERROR 1045 (28000): Access denied for user  
'root'@'localhost' (using password: YES)\nERROR 1045  
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(28000): Access denied for user 'root'@'localhost' (using  
password: YES)\nERROR 1045 (28000): Access denied for user  
'root'@'localhost' (using password: YES)\nERROR 1045  
(28000): Access denied for user 'root'@'localhost' (using  
password: YES)\nERROR 1045 (28000): Access denied for user

...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 won't 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.