



```
example:
$ cd ~/miros_rabbitmq_deployment
```

```
example
mkdir group_vars
mkdir ./group_vars/scotty
touch ./group_vars/scotty/var
mkdir templates
...
group_vars
miros-rabbitmq
vars
templates
```

```
Directory structure now
.
├── group_vars
│   └── miros-rabbitmq
│       ├── vars
│       └── vault
└── templates
```

```
entry /
# create a global_var folder with your inventory name as a subdirectory
# in this inventory named subdirectory create a vars file
# create a template directory
```

```
entry /
move your fake_vault into your ./groups_var/<inventory_name> directory
change its name to vault
encrypt it using `ansible-vault encrypt`
cat it to see it is encrypted
confirm you can open it with `ansible-vault edit`
```

```
example:
$ mv fake_vault ./global_vars/scotty/vault
$ ansible-vault encrypt ./global_vars/miros-rabbitmq/vault
```

```
example:
$ cat ./global_vars/miros-rabbitmq/vault

$ANSIBLE_VAULT;1.1;AES256
34363736353133336561626464646437613...
```

Note.. If you see something like this you can add your vault to your revision control system

Note.. Remember this secret Also, there are ways to use a password file search "ansible vault password file"

```
example:
$ ansible-vault edit ./global_vars/miros_rabbitmq/vault
```

```
---
vault_MESH_ENCRYPTION_KEY: 'u3Uc-qAi9iiCv3fkBfRUAKrM1gH8w51-nVU8M8A73Jg='
vault_SNOOP_TRACE_ENCRYPTION_KEY: 'u3Uc-qAi9iiCv3fkBfRUAKrM1gH8w51-nVU8M8A73Jg='
vault_SNOOP_SPY_ENCRYPTION_KEY: 'u3Uc-qAi9iiCv3fkBfRUAKrM1gH8w51-nVU8M8A73Jg='
vault_RABBIT_HEARTBEAT_INTERVAL: 3600
vault_CONNECTION_ATTEMPTS: 3
vault_RABBIT_USER: peter
vault_RABBIT_PASSWORD: rabbit
vault_RABBIT_PORT: 5672
vault_RABBIT_GUEST_PASSWORD: rabbit567
```

```
entry /
add a var (yaml) file to your global_vars/<inventory>/
add the required variables:
rabbit_user -> vault
rabbit_password -> vault
rabbit_heart_beat_interval -> vault
connection_attempts -> vault
rabbit_tags
rabbit_guest_password -> vault
rabbit_heart_beat_interval
mesh_encryption_key -> vault
snoop_trace_encryption_key -> vault
snoop_spy_encryption_key -> vault
```

```
example:
$ touch ./global_vars/miros-rabbitmq/var
```

```
example vars file:
---
# public
python_packages_to_install:
- miros-rabbitmq
rabbit_tags:
- administrator

# secrets
rabbit_user: "{{ vault_RABBIT_USER }}"
rabbit_password: "{{ vault_RABBIT_PASSWORD }}"
rabbit_port: "{{ vault_RABBIT_PORT }}"
rabbit_heartbeat_interval: "{{ vault_RABBIT_HEARTBEAT_INTERVAL }}"
connection_attempts: "{{ vault_CONNECTION_ATTEMPTS }}"
rabbit_guest_password: "{{ vault_RABBIT_GUEST_PASSWORD }}"
mesh_encryption_key: "{{ vault_MESH_ENCRYPTION_KEY }}"
snoop_trace_encryption_key: "{{ vault_SNOOP_TRACE_ENCRYPTION_KEY }}"
snoop_spy_encryption_key: "{{ vault_SNOOP_SPY_ENCRYPTION_KEY }}"
rabbit_heart_beat_interval: "{{ vault_RABBIT_HEARTBEAT_INTERVAL }}"
```

Note.. this creates public variable names with secret contents

```
entry /
determine where you want your miros-rabbitmq working files to be
this will be assigned to
miros_rabbitmq_project_directory in your playbook
```

```
example:
miros_rabbitmq_project_directory: '~/miros-rabbitmq'
```

```
entry /
create ./templates/rabbit-env.conf.j2 # will tell rabbit where to find it's config
create ./templates/rabbit.config.j2 # the RabbitMQ config template
create ./templates/.env.j2 # will contain all the secrets needed for your miros-rabbitmq to work
create ./templates/.miros_rabbitlan_cache.json.j2 # the empty lan cache file
create ./templates/.miros_rabbit_hosts.json.j2 # describes addresses of other nodes in your system
```

```
example ./templates/rabbit-env.conf.j2 file:
RABBITMQ_CONFIG_FILE=/etc/rabbitmq/rabbitmq
NODE_IP_ADDRESS=0.0.0.0
```

```
example ./templates/rabbit-config.j2 file:
[
{rabbit,
 {
 {loopback_users,[]}
 }
 }
]
```

```
example ./templates/.env.j2 file:
---
MESH_ENCRYPTION_KEY={{mesh_encryption_key}}
SNOOP_TRACE_ENCRYPTION_KEY={{snoop_trace_encryption_key}}
SNOOP_SPY_ENCRYPTION_KEY={{snoop_spy_encryption_key}}
RABBIT_USER={{rabbit_user}}
RABBIT_PASSWORD={{rabbit_password}}
RABBIT_PORT={{rabbit_port}}
RABBIT_HEARTBEAT_INTERVAL={{rabbit_heart_beat_interval}}
CONNECTION_ATTEMPTS={{connection_attempts}}
RABBIT_GUEST_USER={{rabbit_guest_user}}
```

```
example ./templates/.miros_rabbitlan_cache.json.j2
{
"addresses": [
],
"amqp_urls": [
],
"time_out_in_minutes": 0
}
```

```
Directory structure now
.
├── group_vars
│   └── miros-rabbitmq
│       ├── vars
│       └── vault
└── templates
    ├── .env.j2
    ├── .miros_rabbitlan_cache.json
    ├── .miros_rabbit_hosts.json
    ├── rabbitmq.config.j2
    └── rabbitmq-env.conf.j2
```

```
example ./templates/.miros_rabbit_hosts.json.j2
{
"hosts": [
{% for host in ansible_play_batch %}
"{{ host }}" {% if not loop.last %}, {% endif %}
{% endfor %}
]
```

```
example ./miros_rabbitmq_install.yml
---
- hosts: miros-rabbitmq
vars:
miros_rabbitmq_project_directory: '~/miros-rabbitmq'
tasks:
- name: Install rabbitmq-server
become: true
apt: name={{ item }} state=present update_cache=false
with_items:
- erlang
- rabbitmq-server
```