WORKFLOW

EXAMPLES

set up deployment computer

determine what machines you want in your distributed system

invent credentials and secrets

Make a fake_vault File

entry /
in your deployment directory create a file called fake_vault

example:

$ cd ~/miros_rabbitmq_deployment
$ touch fake_vault # this is a yaml file

RabbitMQ server credentials and settings

/entry
invent the following:
RABBIT_USER
RABBIT_PASSWORD
RABBIT_PORT
RABBIT_GUEST_PASSWORD

prepend the names with vault and put in your fake_vault

example fake_vault file:

---
vault_RABBIT_USER: peter
vault_RABBIT_PASSWORD: rabbit
vault_RABBIT_PORT: 5672
vault_RABBIT_GUEST_PASSWORD: rabbit567

RabbitMQ connection parameters

entry /
invent the following
rabbit_heartbeat_interval
connection_attempts

example fake_vault (yaml) file now:

---
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

Invent miros-rabbitmq encryption keys

entry /
create symmetric encryption keys for:
mesh_network
snoop_spy_network (can be the same as mesh)
snoop_trace_network (can be the same as mesh)

example of how to make keys:

$ python3
from cryptography import Fernet

# do this once per needed encryption keys
encryption_key = Fernet.generate_key()
print(encryption_key) # => b'u3u...' (copy the string part)

Note..
make sure you put '' around your keys

Add Encryption keys to fake vault

entry /
in your fake vault file assign your keys to
vault_MESH_ENCRYPTION_KEY
vault_SNOOP_TRACE_ENCRYPTION_KEY
vault_SNOOP_SPY_ENCRYPTION_KEY

example fake_vault (yaml) file now:

---
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

setup ansible file structure on deployment computer

deploy your infrastructure, credentials and secret to all machines