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Ansible role to deploy and configure Minio in distributed mode

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1. About

1.1 Role Name

minio_install

1.2 Description

Role to install and configure Minio in distributed mode

1.3 Dependencies

None

1.4 Information

Author	Company	License	Minimum Ansible Version		
Peter Murphy	My Company	None	2.9		

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2. Defaults

2.1 main.yml

2.1.1 minio_server_install_volume_groups

Volume Group settings ...

vg_min: pv: /dev/sdd

2.1.2 minio_server_install_volumes

Logical volume variable settings ...

lv_min:
 drive: vg_min
 size: +100%FREE

2.1.3 minio_server_install_dir_mounts

Directory for logical volume mount ...

/var/lib/minio: src: /dev/vg_min/lv_min

2.1.4 minio_server_datadirs

Minio server data directory ...

/var/lib/minio

2.1.5 minio_user

Minio user ...

minio

2.1.6 minio_group

Minio user group ...

minio

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2.1.7 minio_server_download_base_url

Base URL to download minio from ...

https://dl.minio.io/server/minio/release/linux-amd64

2.1.8 minio_server_bin

Minio server bin directory ...

/usr/local/bin/minio

2.1.9 minio_server_envfile

Path to the file containing the ENV variables for the Minio server ...

/etc/default/minio
...

2.1.10 minio_port

Minio server port ...

'9091'

2.1.11 minio_server_opts

Additional Minio server CLI options ...

1.1

2.1.12 minio_access_key

Minio access key ...

2.1.13 minio_secret_key

Minio secret key ...

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2.1.14 minio_server_env_extra

Additional environment variables to be set in minio server environment \dots

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3. Vars

3.1 main.yml

3.1.1 minio_server_download_url

URL to download minio from ...

'{{ minio_server_download_base_url }}/minio'

3.1.2 minio_server_addr

Minio server listen address ...

:{{ minio_port }} ...

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4. Tasks

4.1 Flow

```
graph LR
main.yml(main.yml) --> minio/users.yml(minio/users.yml)
main.yml(main.yml) --> volumes.yml(volumes.yml)
main.yml(main.yml) --> minio/minio.yml(minio/minio.yml)
main.yml(main.yml) --> minio/firewall.yml(minio/firewall.yml)
volumes.yml(volumes.yml) --> directories.yml(directories.yml)
```

4.2 Tasks: main

4.2.1 main.yml

- Set proxy server if defined
- Configure Minio user
- Configure logical volumes
- Download, Install and Configure Minio
- Configure Firewall

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4.3 Tasks: users

4.3.1 minio/users.yml

- Create Minio group
- Create Minio user

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4.4 Tasks: file-system

4.4.1 volumes.yml

- Configure LVM volume groups
- Configure LVM logical volumes
- Create the xfs filesystems
- Create directories
- Create list of mounted devices
- Mount and bind a volume

4.4.2 directories.yml

- Get status of the FS object
- Create directory if not already created

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4.5 Tasks: minio

4.5.1 minio/minio.yml

- Get the Minio server checksum
- Download the Minio server
- Generate the Minio server envfile
- Create the Minio server systemd config
- Create the Minio server init.d config
- Enable and start the Minio service

4.5.2 minio/firewall.yml

- Enable firewalld
- Open firewall ssh port
- Open firewall minio ports

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5. Handlers

5.1 main.yml

- Reload minio systemd
- Restart minio
- Reload firewalld service

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