

README

Todd Wintermute

2023-12-21

Contents

1 toddwint/transfer	1
1.1 Info	1
1.2 Overview	1
1.3 Features	2
1.4 Sample commands to create the macvlan	2
1.5 Sample docker run command	3
1.6 Sample docker compose (compose.yaml) file	3

1 toddwint/transfer

1.1 Info

transfer docker image for simple lab testing applications.

Docker Hub: <https://hub.docker.com/r/toddwint/transfer>

GitHub: <https://github.com/toddwint/transfer>

1.2 Overview

Docker image providing the following server services: DHCP, FTP, TFTP, HTTP. Services can be disabled individually by passing environment variables at run time.

Pull the docker image from Docker Hub or, optionally, build the docker image from the source files in the build directory.

Create and run the container using `docker run` commands, `docker compose` commands, or by downloading and using the files here on github in the directories `run` or `compose`.

NOTE: A volume named `public` is created the first time the container is started. Upload the files to that folder.

Manage the container using a web browser. Navigate to the IP address of the container and one of the HTTPPORTs.

Upload files to the container via FTP. Username and password are `transfer / transfer [APPNAME / APPNAME]`.

NOTE: Network interface must be UP i.e. a cable plugged in.

Example docker run and docker compose commands as well as sample commands to create the macvlan are below.

1.3 Features

- Ubuntu base image
- Plus:
 - bsdmainutils
 - ftp
 - fzf
 - iproute2
 - iputils-ping
 - isc-dhcp-server
 - python3-minimal
 - rsyslog
 - tftp-hpa
 - tftpd-hpa
 - tmux
 - tzdata
 - vsftpd
 - webfs
 - [ttyd](#)
 - View the terminal in your browser
 - [frontail](#)
 - View logs in your browser
 - Mark/Highlight logs
 - Pause logs
 - Filter logs
 - [tailon](#)
 - View multiple logs and files in your browser
 - User selectable tail, grep, sed, and awk commands
 - Filter logs and files
 - Download logs to your computer

1.4 Sample commands to create the macvlan

Create the docker macvlan interface.

```
docker network create -d macvlan --subnet=192.168.10.0/24 --gateway=192.168.10.254 \
--aux-address="mgmt_ip=192.168.10.253" -o parent="eth0" \
--attachable "transfer01"
```

Create a management macvlan interface.

```
sudo ip link add "transfer01" link "eth0" type macvlan mode bridge
sudo ip link set "transfer01" up
```

Assign an IP on the management macvlan interface plus add routes to the docker container.

```
sudo ip addr add "192.168.10.253/32" dev "transfer01"
sudo ip route add "192.168.10.0/24" dev "transfer01"
```

1.5 Sample docker run command

```
docker run -dit \
  --name "transfer01" \
  --network "transfer01" \
  --ip "192.168.10.1" \
  -h "transfer01" \
  -v "${PWD}/public:/opt/transfer/public" \
  -p "192.168.10.1:80:80" \
  -p "192.168.10.1:8080:8080" \
  -p "192.168.10.1:8081:8081" \
  -p "192.168.10.1:8082:8082" \
  -p "192.168.10.1:8083:8083" \
  -e TZ="UTC" \
  -e MGMTIP="192.168.10.253" \
  -e GATEWAY="192.168.10.254" \
  -e HUID="1000" \
  -e HGID="1000" \
  -e ENABLE_DHCP="True" \
  -e ENABLE_HTTP="True" \
  -e ENABLE_TFTP="True" \
  -e ENABLE_FTP="True" \
  -e HTTPPORT1="8080" \
  -e HTTPPORT2="8081" \
  -e HTTPPORT3="8082" \
  -e HTTPPORT4="8083" \
  -e HOSTNAME="transfer01" \
  -e APPNAME="transfer" \
  "toddwint/transfer"
```

1.6 Sample docker compose (compose.yaml) file

```
name: transfer01

services:
  transfer:
    image: toddwint/transfer
    hostname: transfer01
    ports:
      - "192.168.10.1:80:80"
      - "192.168.10.1:8080:8080"
      - "192.168.10.1:8081:8081"
```

```

- "192.168.10.1:8082:8082"
- "192.168.10.1:8083:8083"
networks:
  default:
    ipv4_address: 192.168.10.1
environment:
- ENABLE_DHCP=True
- ENABLE_HTTP=True
- ENABLE_TFTP=True
- ENABLE_FTP=True
- HUID=1000
- HGID=1000
- HOSTNAME=transfer01
- TZ=UTC
- MGMTIP=192.168.10.253
- GATEWAY=192.168.10.254
- HTTPPORT1=8080
- HTTPPORT2=8081
- HTTPPORT3=8082
- HTTPPORT4=8083
volumes:
- "${PWD}/public:/opt/transfer/public"
tty: true

networks:
  default:
    name: "transfer01"
    external: true

```