README

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1 toddwint/smtp

1.1 Info

smtp docker image for simple lab testing applications.

Docker Hub: https://hub.docker.com/r/toddwint/smtp

GitHub: https://github.com/toddwint/smtp

1.2 Overview

Docker image for receiving SMTP messages.

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.

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

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:
 - postfix
 - mailutils
 - tmux
 - python3-minimal
 - iputils-ping
 - iproute2
 - tzdata
 - ttyd
 - \diamond View the terminal in your browser

- frontail
 - \diamond 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=192.168.10.2" -o parent="eth0" \
    --attachable "eth0-macvlan"
```

Create a management macvlan interface.

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

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

```
sudo ip addr add "192.168.10.2/32" dev "eth0-macvlan"
sudo ip route add "192.168.10.0/24" dev "eth0-macvlan"
```

1.5 Sample docker run command

```
docker run -dit \
   --name "smtp01" \
    --network "eth0-macvlan" \
   --ip "192.168.10.1" \
   -h "smtp01" \
   -p "192.168.10.1:25:25" \
   -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 DOMAINNAME="test.lab" \
   -e HTTPPORT1="8080" \
   -e HTTPPORT2="8081" \
   -e HTTPPORT3="8082" \
   -e HTTPPORT4="8083" \
   -e HOSTNAME="smtp01" \
    -e APPNAME="smtp" \
   "toddwint/smtp"
```

1.6 Sample docker compose (compose.yaml) file

```
name: smtp01
services:
    smtp:
    image: toddwint/smtp
```

```
hostname: smtp01
   ports:
       - "192.168.10.1:25:25"
       - "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:
       - DOMAINNAME=test.lab
       - HOSTNAME=smtp01
       - TZ=UTC
       - HTTPPORT1=8080
       - HTTPPORT2=8081
       - HTTPPORT3=8082
       - HTTPPORT4=8083
       - APPNAME=smtp
   tty: true
networks:
   default:
      name: "eth0-macvlan"
   external: true
```