

# Docker-Mail

Nitinan Keel  
Containerization of application and services  
Docker-Mail

## Table of contents

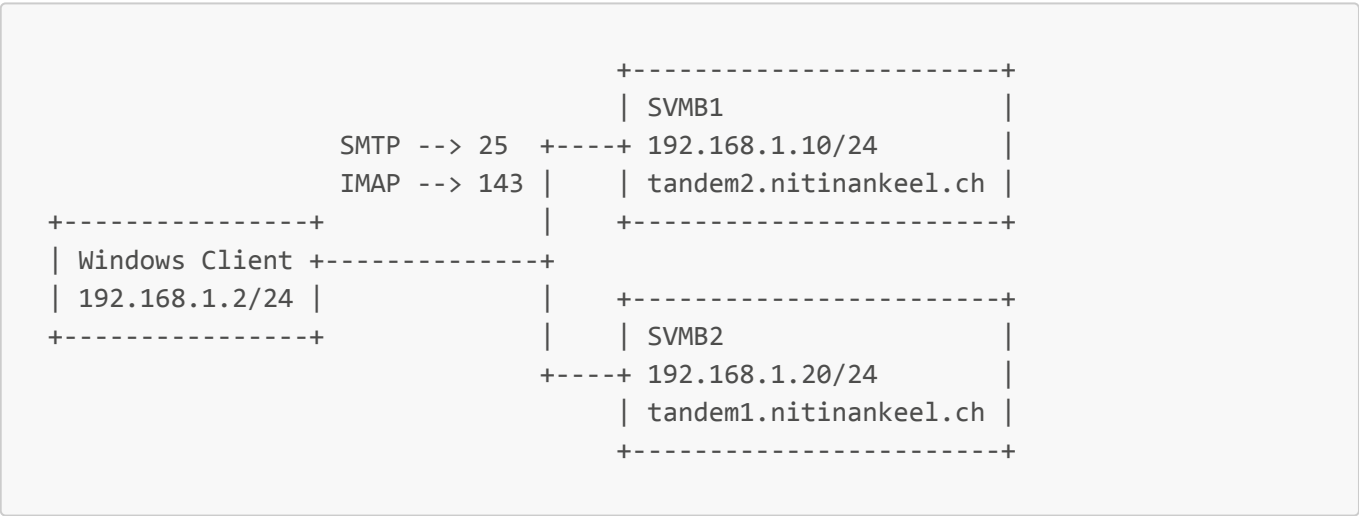
- [Concept]
  - [Requierevements]
  - [Networkdiagramm]
  - [IP-Table]
  - [DNS]
- [Installation]
  - [Setup folders and required files]
  - [Vagrantfiles]
- [Testing]
- [Project review]

## Concept

Requirements:

- [Vagrant](#)
- [VirtualBox](#)
- [Git](#)
- [Vagrant plugin](#)

## Networkdiagramm



## DNS Records

--

```

+-----+
| DNS Server                                     |
| ns1.hostserv.eu                             |
|                                              |
| A Record                                     |
| mail.tandem1.nitinankeel.ch ==> 192.168.1.10/24 |
| mail.tandem2.nitinankeel.ch ==> 192.168.1.20/24 |
| tandem1.nitinankeel.ch      ==> 192.168.1.10/24 |
| tandem2.nitinankeel.ch      ==> 192.168.1.20/24 |
|                                              |
| MX Record                                     |
| tandem1.nitinankeel.ch      ==> mail.tandem1.nitinankeel.ch |
| tandem2.nitinankeel.ch      ==> mail.tandem2.nitinankeel.ch |
+-----+

```

## Setup folders and required files

```

.
├── tandem1
│   ├── docker-compose.yml
│   └── user.sh
├── tandem2
│   ├── docker-compose.yml
│   └── user.sh
├── LICENSE (GPLv2)
└── Vagrantfile                # Vagrant file

```

## Vagrantfile

```

# BOX Image is Trusty64
BOX_IMAGE = "ubuntu/trusty64"
# Mail Node Server
WEB_COUNT = 2
# Start Vagrant configuration
Vagrant.configure("2") do |config|
# Foreach Mail Server
  (1..WEB_COUNT).each do |i|
    config.vm.provision :docker
    config.vm.provision :docker_compose
    config.vm.box = BOX_IMAGE
    config.vm.define "svmb#{i}" do |subconfig|
      subconfig.vm.hostname = "svmb#{i}"
      subconfig.vm.network :private_network, ip: "192.168.1.#{i}0"
      subconfig.vm.synced_folder "tandem#{i}", "/home/vagrant"
      subconfig.vm.provision "shell", inline: <<-SHELL
      mkdir /docker-mail
      cd /docker-mail
      cp /home/vagrant/docker-compose.yml /docker-mail/docker-compose.yml
    end
  end
end

```

```
docker pull tvial/docker-mailserver:latest
sudo curl -o setup.sh https://raw.githubusercontent.com/tomav/docker-mailserver/master/setup.sh
sudo chmod a+x /docker-mail/setup.sh
cat /home/vagrant/test.sh | bash
docker-compose up -d
SHELL
subconfig.vm.provider "virtualbox" do |v|
  v.gui = true
  v.name = "svmb#{i}"
  v.memory = 512
end
end
end
config.vm.provision "shell", inline: <<-SHELL
echo "hallo"
SHELL
end
```

## Testing

## Project review