

Mesos, DC/OS on openSUSE

Masayuki Igawa

masayuki@igawa.io

masayukig on [Freenode](#), [Twitter](#), [GitHub](#)

May 30, 2017

@Mesos Meetup Tokyo #1
github.com/masayukig/mesos-dcos-on-opensuse

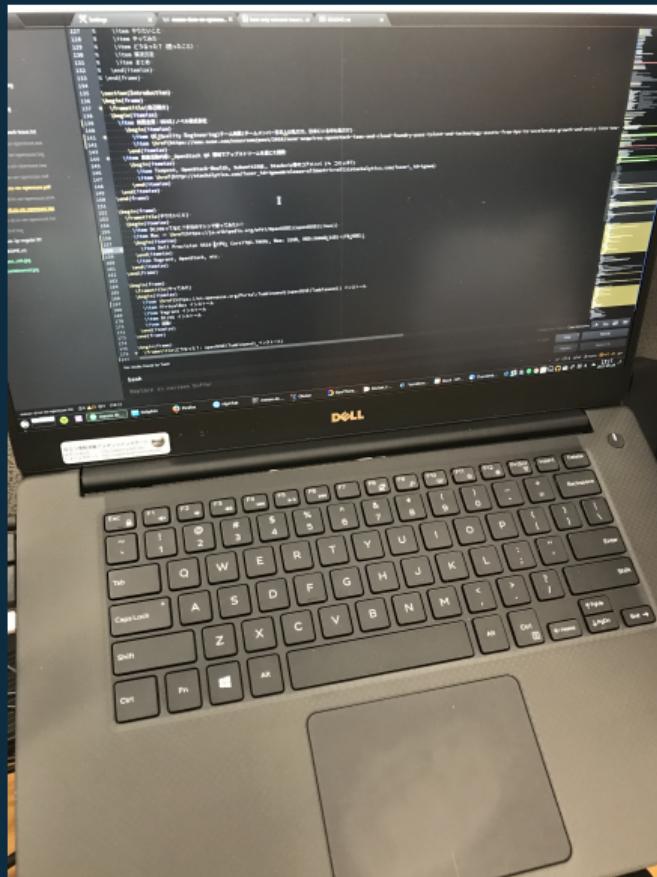
自己紹介

- ▶ 所属企業：SUSE/ノベル株式会社
 - ▶ QE(Quality Engineering)チーム所属
(日本にいるのは私だけ)
 - ▶ SUSE Acquires OpenStack IaaS and Cloud Foundry PaaS Talent and Technology Assets from HPE to Accelerate Growth and Entry into New Markets
- ▶ 業務: オープンソースプログラマ
 - ▶ OpenStack QA 領域でアップストリームを通じた開発： Tempest, OpenStack-Health, Subunit2SQL, Stackviz等のコアレビューア
 - ▶ stackalytics.com/?user_id=igawa



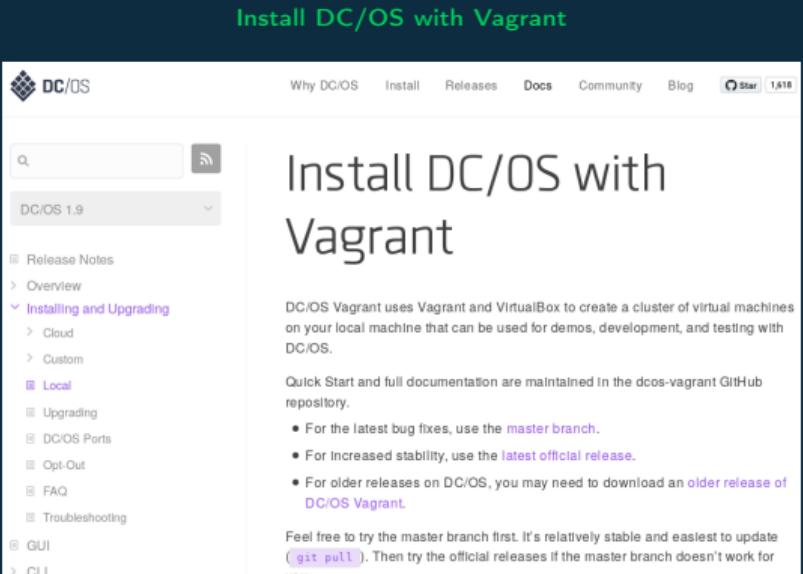
やりたいこと

- ▶ Mesos? DC/OS? なにそれ?
(まずは)手元のマシンで使ってみたい!
- ▶ Mac → [openSUSE\(Linux\)](#)
 - ▶ Dell Precision 5510 (Ubuntu pre-installed)
CPU: Corei7@2.70GHz
Mem: 32GB
HDD: 500GB(SSD) + 1TB(HDD)
- ▶ Vagrant, OpenStack, etc.



やってみた

- ▶ openSUSE(Tumbleweed) インストール
- ▶ VirtualBox インストール
- ▶ Vagrant インストール
- ▶ Mesos, DC/OS インストール
- ▶ 起動!



The screenshot shows the DC/OS website with the following details:

- Header:** DC/OS logo, search bar, navigation links: Why DC/OS, Install, Releases, Docs, Community, Blog.
- Section:** **Install DC/OS with Vagrant**
- Content:** A large heading "Install DC/OS with Vagrant". Below it, text explains that DC/OS Vagrant uses Vagrant and VirtualBox to create a cluster of virtual machines on your local machine for demos, development, and testing. It also mentions that Quick Start and full documentation are maintained in the `dcos-vagrant` GitHub repository. A bulleted list provides instructions:
 - For the latest bug fixes, use the [master branch](#).
 - For increased stability, use the [latest official release](#).
 - For older releases on DC/OS, you may need to download an [older release of DC/OS Vagrant](#).
- Footnote:** A note encourages users to try the master branch first, as it is relatively stable and easiest to update (`git pull`). It suggests trying official releases if the master branch doesn't work for you.

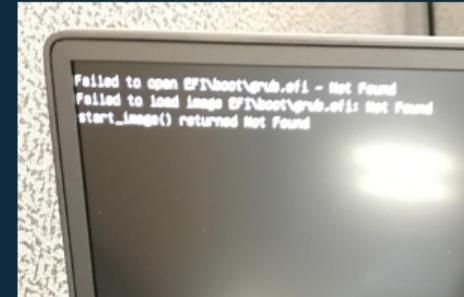
どうなった?: openSUSE(Tumbleweed) インストール

- ▶ openSUSE Tumbleweed ?
- ▶ USB メモリなんて持っていない
- ▶ 容量足りない
- ▶ ブートしない

Tumbleweed? (Photo by [jezarnold](#))



Boot error



USEメモリ(4GB)



どうなった?: VirtualBox/Vagrant インストール

それぞれの公式サイト(VirtualBox/Vagrant)に Tumbleweed 用のパッケージなし…

- ▶ VirtualBox: zypper install virtualbox
- ▶ Vagrant: zypper install vagrant

どうなった?: DC/OS インストール

- ▶ [Install DC/OS with Vagrant](#) に従い、 master branch を使用
 - ▶ cp VagrantConfig-1m-1a-1p.yaml VagrantConfig.yaml
 - ▶ vagrant up
- ▶ すんなりインストールが進だ！4つのVMが起動した！
- ▶ 自動テスト(?)も通った!(っぽい)
- ▶ <http://m1.dcos> にアクセス！→つながらない・・orz

解決: DC/OS インストール

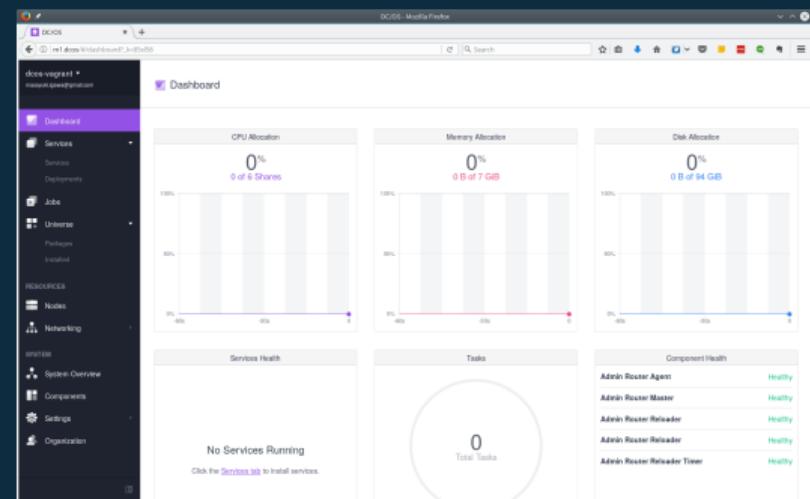
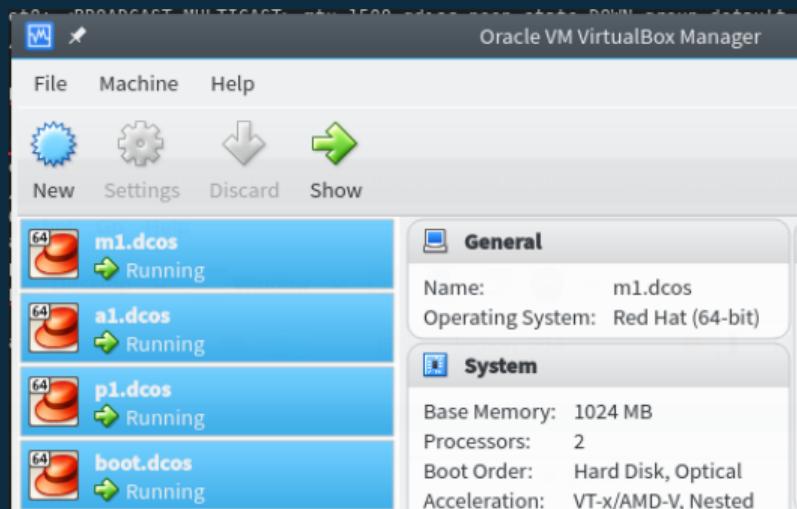
▶ Host-only Networks issue

```
$ ip addr show vboxnet0
3: vboxnet0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN
    group default qlen 1000
    link/ether 0a:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
# trying to up
$ sudo ip link set vboxnet0 up

$ ip addr show vboxnet0
3: vboxnet0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
    pfifo_fast state UP group default qlen 1000
    link/ether 0a:00:27:00:00:00 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::800:27ff:fe00:0/64 scope link
        valid_lft forever preferred_lft forever
# only ipv6 ip address shows up!! So, set an ipv4 address,
# manually
$ sudo ip addr add 192.168.65.1/24 dev vboxnet0

# could access to http://m1.dcos finally!!
```

DC/OS on Vagrant on VirtualBox on openSUSE 起動



まとめ

- ▶ openSUSE でも Mesos, DC/OS 使えるよ
- ▶ いろいろつまづくことがあるよ(Network...)
- ▶ 本番はこれから→複数マシン・VMを管理したいよ

Where to get more information

- ▶ <https://www.opensuse.org/#Tumbleweed>
- ▶ <https://www.virtualbox.org/>
- ▶ <https://www.vagrantup.com/>
- ▶ <https://dcos.io/docs/1.9/installing/local/>
- ▶ <https://github.com/dcos/dcos-vagrant/>