

Introduction to Compass

Weidong Shao, Huawei



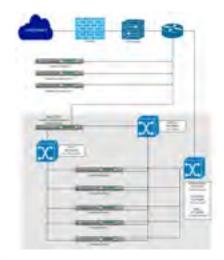


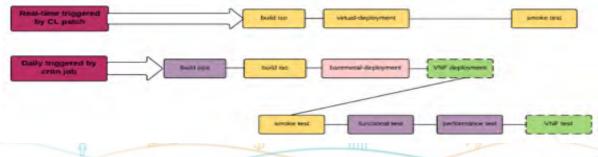
















What is Compass?

Deploy to BareMetal

- Auto-discovery of Hardware
- Support various servers, switches, storages

OS-Installer

- Cobbler(PXE)
- OpenStack Ironic

Package Installer

- Openstack deployment with various flavors
- NVF function(vIMS, epc, etc)
- Extensible easy to add new applications

Application management

Application monitor and logging





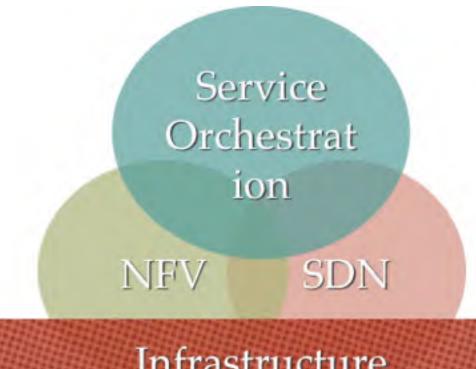
Why Compass?

- Simple: one person can manage a data center—remote deployment, data center config as configuration file
- Visual: Web UI
- Extensible: plugin mechanism
- Open: open source, actively on both OPNFV and OpenStack community





Orchestration and Automation



Infrastructure (Bare-Metals, VMs, Containers)





From Bare-metal to Application



Deploy any software onto any hardware with simple plug-in

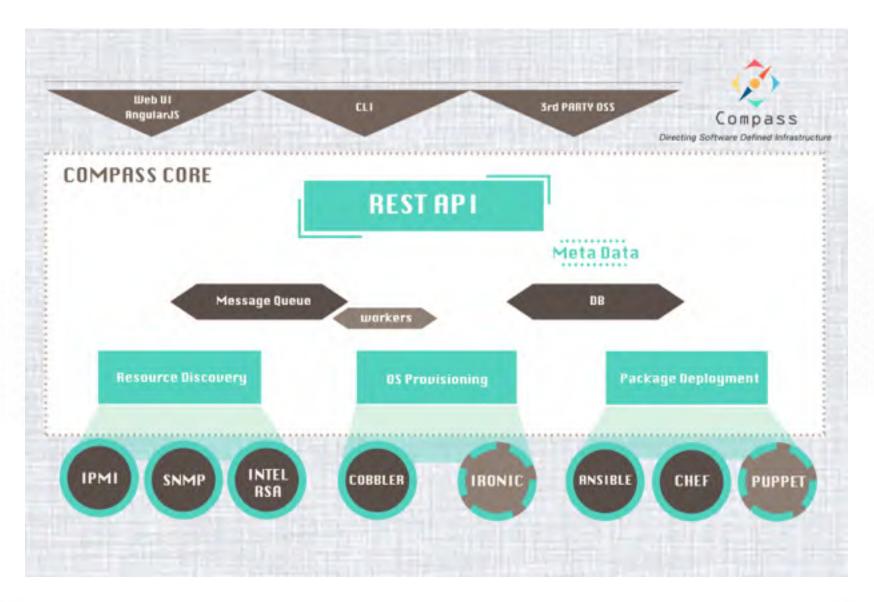




Inside Compass











Plugin Mechanism

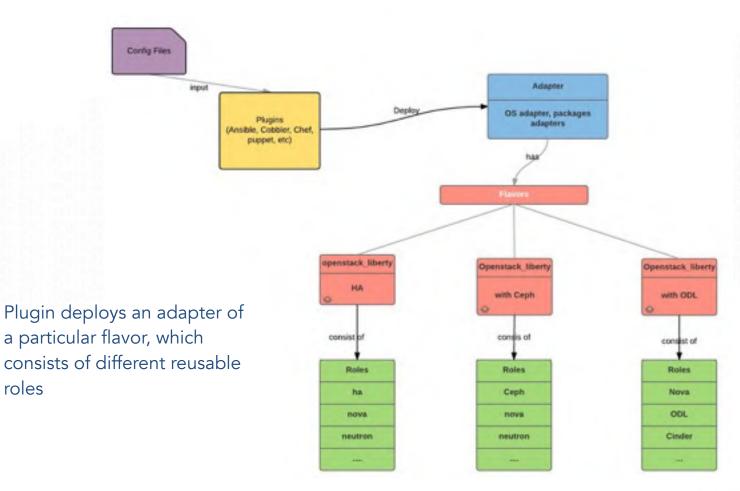
Important concepts:

- Plugin
- Adapter
- Flavor
- Role





Adapters - Target Systems





roles



MetaData and Template Rendering

- Configurable data for each adapter
- Rendered by compass-core at run-time

> Extensible by design

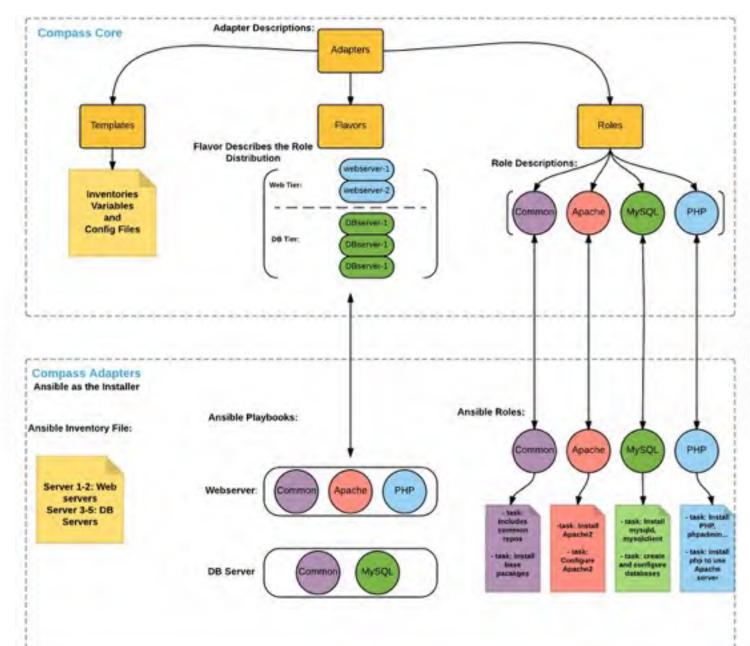
```
{
    "os_config": {
        "timezone": {....}
        "language": {....}
    },
    "network": {
        "ip": {...},
        "netmask": {....}
        "gateway": {....}
    }
},

**Sinterface**: {
        "ip": {....}
        "gateway": {....}
    }
},

**Sinterface**: {
        "ip": {....}
        "gateway": {....}
}
```











Remote Deployment

- Deploy anything deployable from anywhere!
- Avoid the hassle of managing data center using traditional approach
 - data center infrastructure and applications as configuration file (blueprint)
 - hardware as reusable components
- Simply install compass agent in your data center, and you are good to go!



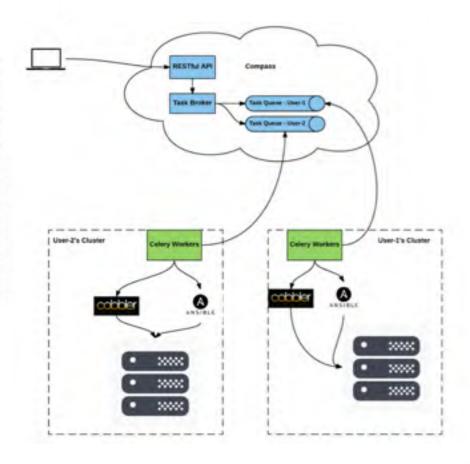


Remote Deployment

User enters configuration data on compass UI in the cloud

Compass server sends deployment configuration and instrument to compass agent in target environment

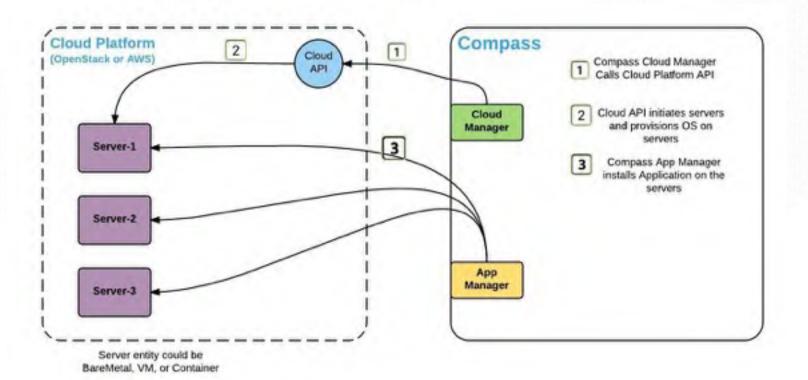
Local compass agent deploys/ updates data center







Application Provisioning







See our demo!





Find us on:

syscompass.org

https://github.com/openstack/compass-core

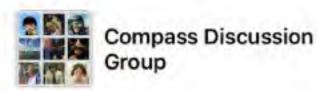
stack360.io

weidongshao@gmail.com





WeChat Group





该二维码7天内(7月22日前)有效、重新进入将更新





We are hiring



Join our open source team OpenStack NFV OPNFV





Thank You!

