## Kei

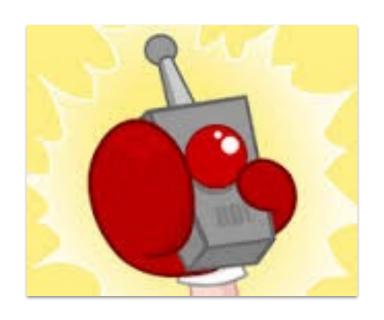
# Nohguchi

# OpenSwitch +

#### Ansible

### What?

```
| 1
        +--+
        | fab1 |
        +-+--+
        12 13
      +---+
    +---+ +---+
    | spine1 | | spine2 |
    +-+--+ +--++
     |2 |3 |2 |3
  +----+
  +---+ +---+ +---+ +---+
| leaf1 | | leaf2 | | leaf3 | | leaf4 |
|2 |3 |2 |3 |2 |3 |2 |3
```



#### How?

# Inventory, Variables, KP Playbooks

# Inventory

```
$ cat hosts
[switches:children]
fabrics
spines
leaves
[spines]
spine1 ansible_host=10.10.10.1
spine2 ansible_host=10.10.10.2
[leaves]
```

#### Variables

```
$ cat host_vars/fab1.yaml
ops_vrfs:
  - name: vrf_default
    ports: [1, 2, 3]
    bgp_routers:
      - as_number: 65000
        router_id: 172.16.0.1
        networks: [172.16.0.0/24, 172.16.2.0/24]
        neighbors:
          - address: 172.16.1.2
            remote_as: 65001
          - address: 172.16.2.2
            remote_as: 65002
```

. . .

```
$ cat group_vars/switches.yaml
# Every switch shares ops_bridge configuration.
ops_bridges:
  - name: bridge_normal
    ports: [4, 5, 6, 7, 8]
    vlans:
      - name: VLAN10
        id: 10
# Only eight ports will be used in this environment.
ops_interfaces:
  - name: 1
  - name: 2
  - name: 3
  - name: 4
  - name: 5
  - name: 6
  - name: 7
```

# Playbooks

```
$ cat site.yaml

    name: fabric switch configuration

  hosts: fabrics
  roles:
    - role: [ switch, bgp ]
- name: spine switch configuration
  hosts: spines
  roles:
    - role: [ switch, bgp, ospf ]
- name: leaf switch configuration
  hosts: leaves
  roles:
    - role: [switch, ospf ]
```

#### In action!

https://asciinema.org/~kei

# https:// github.com/ keinohguchi/ dc-on-docker

## kei #openswitch freenode.net

# !Muchas Gracious!