

# NX API

# NXOS

2022年 11月

**All the source code is**

**<https://github.com/yamekimsense/yamebook2>**

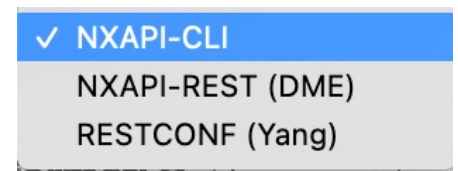
## Nexus - Devnet Always-on Sandbox

- Nexus 9000v Host : **sandbox-nxos-1.cisco.com**
- SSH Port: 22
- NETCONF Port: 830
- NXAPI Ports: 80 (http) & 443 (HTTPS)
- RESTCONF Port : 443 (HTTPS)
- Credentials:
  - Username: **admin**
  - Password: **Admin\_1234!**

## vNXOS install on MAC fusion

- Download and import to the fusion
- Edit the imported file:
  - e1000 to **vmxnet3**
  - telnet config
  - “serial0.fileName = <telnet://127.0.0.1:9002>”
- E1/1 and mgmt for DHCP

- feature nxapi
- web connect



- ✓ json

```
cli_show_array
cli_show_ascii
cli_conf
bash
```

## CLI to JSON

- `show <command> | json`
- `show ip int br | json`

## Python code for show ip int br @ Sandbox

- JSON in JSON
- convert into JSON and covert into JSON AGAIN

```
{'ins_api': {'sid': 'eoc', 'type': 'cli_conf', 'version': '1.0', 'outputs': {'output':  
{'body': '{"TABLE_intf": {"ROW_intf": [{"vrf-name-out": "default", "intf-name":  
"Eth1/1", "proto-state": "up", "link-state": "up", "admin-state": "up", "iod": "5",  
"prefix": "192.168.0.97", "ip-disabled": "FALSE"}, {"vrf-name-out": "default", "intf-  
name": "Eth1/3", "proto-state": "up", "link-state": "up", "admin-state": "up", "iod":  
"7", "prefix": "2.1.1.1", "ip-disabled": "FALSE"}, {"vrf-name-out": "default", "intf-  
name": "Eth1/4", "proto-state": "up", "link-state": "up", "admin-state": "up", "iod":  
"8", "prefix": "3.1.1.1", "ip-disabled": "FALSE"}]}}\n', 'code': '200', 'msg':  
'Success'}}}}
```

```
{'ins_api':
  {'sid': 'eoc',
   'type': 'cli_conf',
   'version': '1.0',
   'outputs':
     {'output':
       {'body':
```

1st JSON

2nd JSON

```
["TABLE_intf":
  {"ROW_intf":
    [{"vrf-name-out": "default",
     "intf-name": "Eth1/1",
     "proto-state": "up",
     "link-state": "up",
     "admin-state": "up",
     "iod": "5",
     "prefix": "192.168.0.97",
     "ip-disabled": "FALSE"}]
  }
```

```
}
  }\n',
  'code': '200',
  'msg': 'Success'
}
```

```
}
```

```
}
```

```
}
```



Python for <conf t>