Cisco Nexus API

All programability interfaces

- CLI (via SSH)
- NX-API (CLI) link
- NX-API (REST) link
- RESTCONF/NETCONF link
- gNMI link

NX-API

NXAPI-CLI

Message format options demo in Postman:

- JSON
    - CLI SHOW
    - CLI SHOW ASCII
    - CLI CONF
- XML
    - CLI SHOW
    - CLI SHOW ASCII
    - CLI CONF

NXAPI-REST (DME)

Input format types:

- CLI
- Model

RESTCONF/NETCONF

Message format options demo in Postman:

- JSON
- XML (omitted)
- Ansible NETCONF usage example p55.

NX-OS supported modules:

- Cisco NXOS device model link
- Openconfig (Beginning with Cisco NX-OS Release 9.2(1), support is added across a broad range of functional areas. Those include BGP, OSPF, Interface L2 and L3, VRFs, VLANs, and TACACs)

Analysis of raw YANG modules is quite complex:

- All modules per device version github
- YANG module catalog for more graphic views: [YANG catalog](YANG%20catalog)

gNMI

Section for future development.

Ansible usage of Nexus API

Supported connections

The Cisco NX-OS collection supports network_cli and httpapi connections.
https://galaxy.ansible.com/cisco/nxos

Ansible NXOS collections: https://docs.ansible.com/ansible/latest/collections/cisco/nxos/

Useful links:

- Nick Russo's [postman collections](postman%20collections)
- NTC blog [comparing IOS-XE and NX-OS YANG models](comparing%20IOS-XE%20and%20NX-OS%20YANG%20models)