Network Diagram Labels

HQ
172.16.100.0/24

ise
.103

hq-ad
.102

fmc
.100

hq-wkst
.250

.222

L2VLAN1

.2 Data
.10 Mgmt

ftd1/ftd3

.3 Data
.11 Mgmt

ftd2

.1   .2

.2   .3

Failover
172.16.101.0/24

Stateful Failover
172.16.102.0/24

isp-router

.129.99
(ssh)

L3VLAN1

PriVLAN

oob-server
.129.0

Real Internet

NAT
0.0.0.0/0

Faux Internet
(vPodGW)

RA VPN

outside-host
.133.36

L3VLAN2
.2 Data

L3VLAN4

inet-server
198.18.4.5

.1 Data
.10 Mgmt

remote1-ftd

L2VLAN3

Remote1
172.16.103.0/24

.222

remote1-wkst

Lab ideas:

- High Availability
  - Simulate hardware failure: replace FTD1 with FTD3
  - Data Plane Failure:
    - Link loss
    - Non-link loss
  - Failover/Stateful Failover Failure:
    - Link loss
- Configure FMC for CTID (return later to view).
- RA VPN
  - Set up LDAP Integration
  - Configure on HA pair in HQ via the Wizard
    - Show where all these "wizard" things are in the FMC.
    - Modify some things to modify.
  - Create a simple RA VPN with split tunnel
- Revisit CTID
- FlexConfig
  - Configure something via Template: EIGRPv6 to IPv6 Router?
  - Copy/Paste IPv6 Prefix Delegation for IPv6 Router DHCP offers.
- Troubleshooting:
  - Troubleshoot "Inspect ICMP".
  - Look at flow dropped by: Prefilter Policy, SI, Default Action, Configured ACP rule.
  - TSHOOT VPN (no identity NAT) when building S2S HQ to Remote1.
  - Show Deployment History and Transcript.
  - Show "pigtail" -- Limited "human" use but it is good to know what it does.
  - Packet-Tracer supports SNORT now!!!
- vFDM at Remote1 (Repurpose FTD)
  - Use vFDM Wizard to set up Remote1-FTD
  - Create S2S VPN from Remote1-FTD to HQ-FTD (Remote1-FTD using vFDM and HQ-FTD via FMC)
- API
  - Not a lab topic per se. Use APIs throughout the lab to set up different use cases. Here are some of the scripts I'd like to have.
  - Then, use scripts to "break" the network to present troubleshooting scenarios to cover the topics in the troubleshooting sections above.

Lecture ideas (beyond what is shown in the lab):
- ASA to FTD Migration (introduce other lab/demo in dCloud)
- vFDM (Maybe set up another dCloud lab/demo on this?)
- CTID/TAXII/STIX (see Dry Run Galliano Beta Customer arf)