

TFS HACKFEST 2

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21/06/2023

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Challenges



Create your local testbed

- Deploy TFS
- Deploy Scenario in ContainerLab

Onboard the Devices from the ContainerLab Scenario in TFS

• Some descriptors are provided as reference (~/tfs-ctrl/hackfest/containerlab)

Configure a Service with Static Routing in the devices

• Some descriptors are provided as reference (~/tfs-ctrl/hackfest/containerlab)

Monitor the traffic in the device ports through Grafana

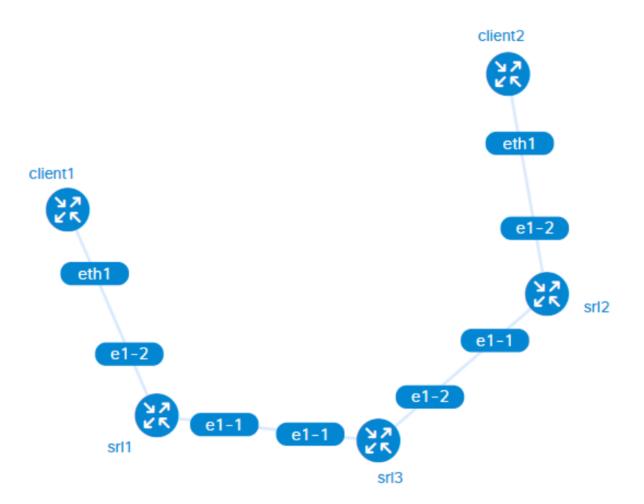
OCNOS onboarding



UUID: ad26e7c5-5c32-584e-830b-d93e565 Name: OCNOS Type: packet-router Status: UNDEFINED Drivers: • OPENCONFIG	d2e70	Endpoint UUID	Name
Configurations:			
Кеу	Value		
_connect/address	• 10.95.86.21		
_connect/port	• 830		
_connect/settings	 force_runnin hostkey_ver look_for_key manager_pa 	r_rule: True ms: {'name': 'huaweiyang'} ng: False ify: False ys: False nrams: {'timeout': 120} nderer: pyangbind icnos	

Scenario with additional routers

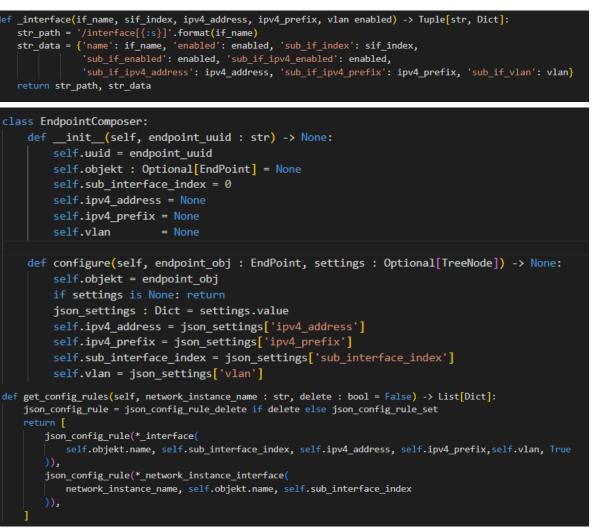




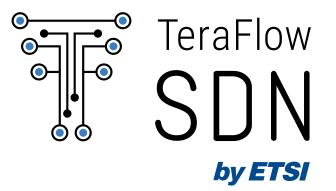
VLAN implementation



```
if_enabled
                 = bool(resource_value.get('enabled'
sif enabled
                 = bool(resource value.get('sub if enabled'
sif_ipv4_enabled = bool(resource_value.get('sub_if_ipv4_enabled', True)) # True/False
sif ipv4 address = str (resource value['sub if ipv4 address'
                                                                          # 172.16.0.1
sif ipv4 prefix = int (resource value['sub if ipv4 prefix'
                                                                           # 24
                                                                           # 111
sif_vlan
                 = int (resource_value['sub_if_vlan'
str_path = '/interfaces/interface[name={:s}]'.format(if_name)
str data = json.dumps({
     'name': if name,
    'config': {'name': if_name, 'enabled': if_enabled},
    'subinterfaces': {
        'subinterface': {
             'index': sif index,
            'config': {'index': sif index, 'enabled': sif enabled},
                                                                                                                  self.vlan
                'config': {'enabled': sif_ipv4_enabled},
                'addresses': {
                    'address': {
                        'ip': sif ipv4 address,
                        'config': {'ip': sif ipv4 address, 'prefix length': sif ipv4 prefix},
            'vlan' : {
                 'match' : 🛉
                    'single-tagged' : {
                        'config' : {
                            'vlan-id' : vlan
                                                                                                             return [
return str_path, str_data
```







Thank You!

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