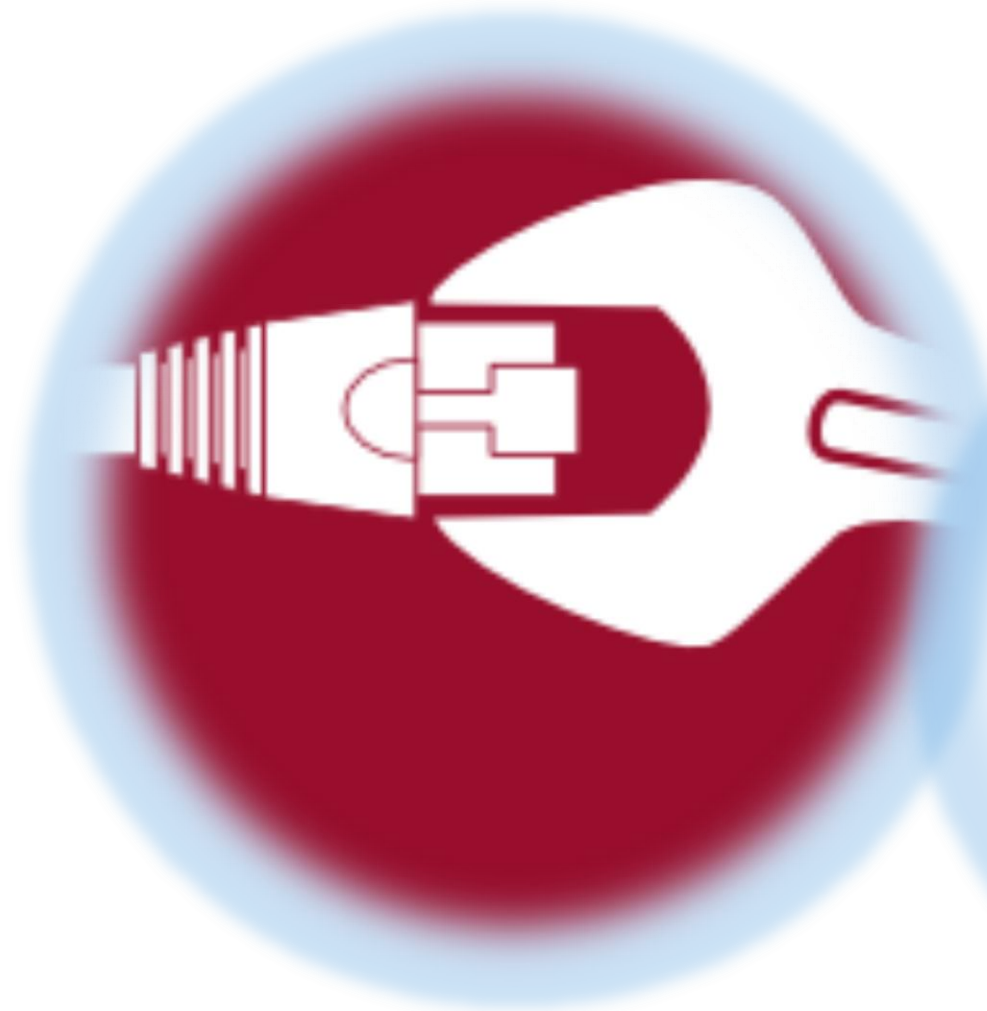




Agema

Programmatic Network Monitoring and Management



```
status": {  
  "response_code": 200,  
  "msg":  
    "OK",  
  "more_info": "",  
  "error_code": 0  
}
```

Error Example

```
curl -POST -d "" curl --cacert cacert.pem -b
```

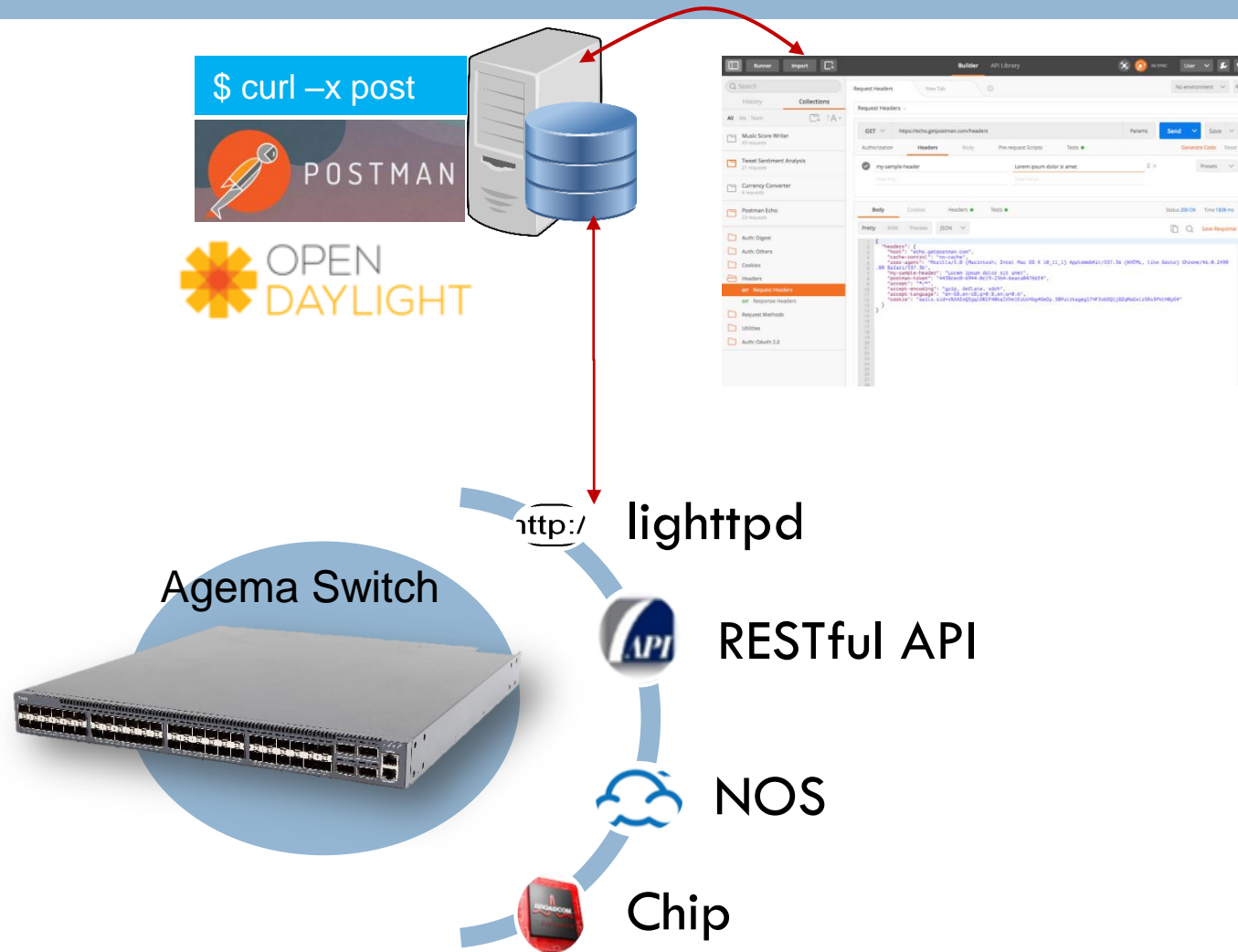
Response Example

```
{  
  "status": {  
    "response_code": 401,  
    "msg": "Unauthorized",  
    "more_info": "",  
    "error_code": -26  
  }  
}
```

Background

1. RESTCONF provides mechanism to install, manipulate and delete configuration of network devices
2. It uses XML based data encoding, as opposed to closed, and ever changing Command Line Interfaces (CLI)
3. Allows the device to expose a full, formal application programming interface (API) to the admin
4. Reduces deployment cost and allows timely access to features consistently across all devices
5. Reduces opex and training needs
6. Allows for creation of self-service portals

Architectural Overview



Configuring Agema Switch



Install chrome browser

Install postman: www.getpostman.com



https://wiki.opendaylight.org/view/OpenDaylight_Controller:MD-SAL:Restconf#How_to_start_and_access_Restconf

Prepare & Install ODL Helium SR3

https://wiki.opendaylight.org/view/Install_On_Ubuntu_14.04

Load odl-restconf-all

https://wiki.opendaylight.org/view/OpenDaylight_Controller:MD-SAL:Restconf#How_to_start_and_access_Restconf

cURL

Curl URL Request Library

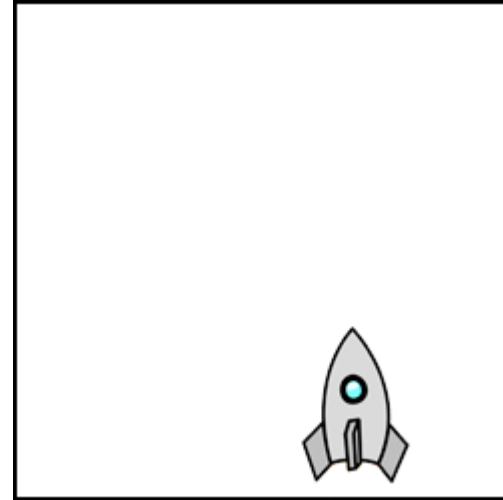
Install cURL: `# sudo apt-get install curl`

Agema Switch



Make user you are running 3.2.x.x
`# show version`

lighttpd Agent is running
`# show process process-list`
Modify any http settings via `# http`



BACKUP SLIDES

Log in and system

[Log-in to get Session ID \(SID\)](#)

POST <http://192.168.3.20:8080/open/v1/login?method=post&username=admin&password=>

[System RFC 1213 read](#)

GET <http://192.168.3.20:8080/open/v1/system1213>

GET <http://192.168.3.20:8080/open/v1/system1213?method=get&x=-99> (Should get an error)

PUT <http://192.168.3.20:8080/open/v1/system1213?method=put&sysName=Demo>

GET <http://192.168.3.20:8080/open/v1/system1213>

Interfaces

Edit interface:

GET <http://192.168.3.20:8080/open/v1/interfaces?interface=0/1>

PUT <http://192.168.3.20:8080/open/v1/interfaces?interface=0/1&mtuSize=1552>

GET <http://192.168.3.20:8080/open/v1/interfaces?interface=0/1>

PUT <http://192.168.3.20:8080/open/v1/interfaces?interface=0/1&mtuSize=1518>

Edit VLAN:

GET <http://192.168.3.20:8080/open/v1/vlans>

POST <http://192.168.3.20:8080/open/v1/vlans?method=post&id=10&name=demo>

GET <http://192.168.3.20:8080/open/v1/vlans>

GET <http://192.168.3.20:8080/open/v1/vlans?id=10>

DELETE <http://192.168.3.20:8080/open/v1/vlans?method=delete&id=10>

GET <http://192.168.3.20:8080/open/v1/vlans>

Tenant Management

L2ol3tenants (VxLAN):

GET <http://192.168.3.20:8080/open/v1/l2ol3tenants>

POST

<http://192.168.3.20:8080/open/v1/l2ol3tenants?method=post&tenant=123&tunnelType=2&localTeplpAddr=192.168.3.10&vlanId=1>

GET <http://192.168.3.20:8080/open/v1/l2ol3tenants?method=get&tenant=123>

PUT <http://192.168.3.20:8080/open/v1/l2ol3tenants?method=put&tenant=123&vlanId=10>

GET <http://192.168.3.20:8080/open/v1/l2ol3tenants>

DELETE <http://192.168.3.20:8080/open/v1/l2ol3tenants?method=delete&tenant=123>

GET <http://192.168.3.20:8080/open/v1/l2ol3tenants?method=get&tenant=123>