GoNetconf Pack

NETCONF PACK FOR STACKSTORM - HACKATON JUN 2018 - DUBLIN

Targets for Hackaton

- Review existing code gonetconf implementation and refracture it https://github.com/ripe-stackstorm/go-netconf-refactored
- Create a Pack for StackStorm which contains 2 actions
 - Perform Operational netconf requests from a StackStorm workflow
 - Perform Configuration netconf requests from a StackStorm workflow
- Documentation

Achievements for the weekend

- Gonetconf code was refactored and improved David
- Interface from StackStomr to gonetconf binary was created and tested
- StackStorm Pack was created which contains
 - 2 actions:
 - get netconf data
 - ▶ set netconf date
 - ▶ 2 workflows:
 - get netconf data and publish the information
 - ▶ Set netconf date and publish the information

Open items

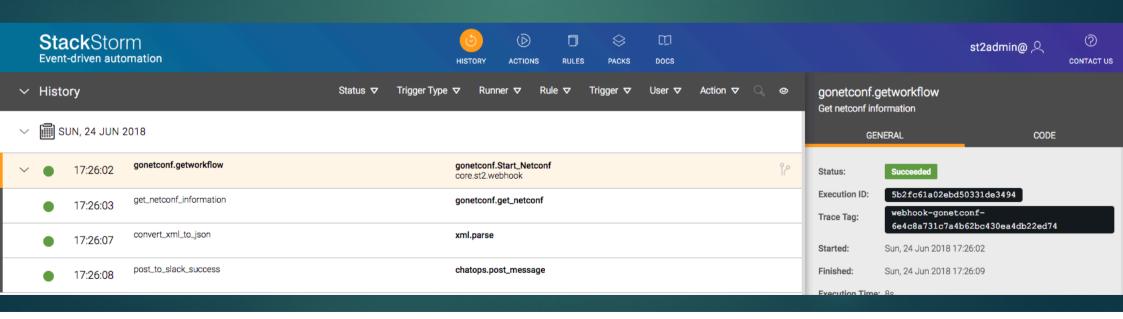
- ► Further testing and bug fixes of the StackFlox actions and workflows
- ► Further improvements to the gonetconf code

Demo – Triger a StackStorm Workflow

- Webhook is triggered to Start the Workflow in StackStorm
- Webhook contains authentication details and a location for a netconf envelope

Demo – Workflow Starts

- Workflow Starts and requests the information via the gonetconf implementation.
- Implementation returns a xml string
- Convert xml string to JSON
- Push the results to Slack



Demo - Result

Result is for the Demo pushed into Slack



hubot APP 5:26 PM

Netconf was successfully read from: vmx01.corepipe.co.uk . Result:

```
{u'interface-information': {u'@xmlns':
u'http://xml.juniper.net/junos/18.1R1/junos-interface', u'physical-
interface': [{u'admin-status': u'up', u'oper-status': u'up', u'name':
u'cbp0'}, {u'admin-status': u'up', u'oper-status': u'up', u'name':
u'demux0'}, {u'admin-status': u'up', u'oper-status': u'up', u'name':
u'dsc'}, {u'admin-status': u'up', u'logical-interface': {u'admin-
status': u'up', u'address-family': [{u'address-family-name': u'inet',
u'interface-address': [{u'ifa-local': {u'#text': u'10.0.0.4/8',
u'@junos:emit': u'emit'}}, {u'ifa-local': {u'#text': u'128.0.0.1/2',
u'@junos:emit': u'emit'}}, {u'ifa-local': {u'#text':...
```

Show more







References

- ► Git Repositories:
 - Refactored gonetconf implementation
 - ▶ https://github.com/ripe-stackstorm/go-netconf-refactored
 - ► Gonetconf StackStom implementation
 - ▶ https://github.com/ripe-stackstorm/GoNETCONF