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Achieve closed-loop automation with IOS-XR Telemetry monitoring

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DEVWKS-2265





Agenda

- Configuration and Device Management with NSO(Network Services Orchestrator)
- Closed Loop automation Experience.

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Configuration and Device Management with NSO(Network Services Orchestrator)



Lab Access Slide.

Please download the lab guide from below url.

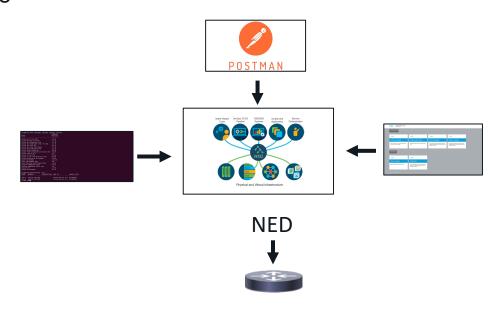
https://github.com/CL-Loop/C22-close-loop.git



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NSO introduction

- 1- YANG as an overall modelling language.
- 2- Transactions towards CDB exhibit ACID(Atomicity, consistency, Isolation, durability).
- 3- Multivendor support
- 4- Rich northbound software interfaces

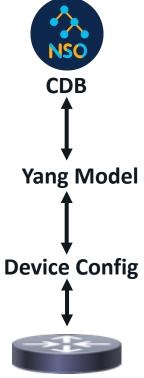




NSO TASK-1

1- Make Yourself Familiar with NSO

2- NSO in Action







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Closed Loop Automation Experience.



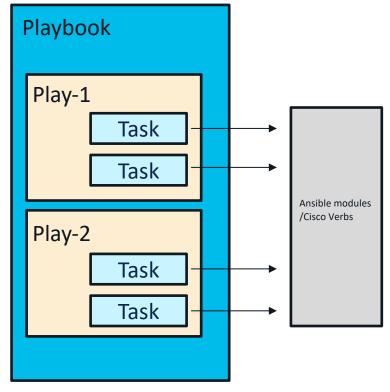
CrossWorks Playbooks Introduction

Ansible playbook:

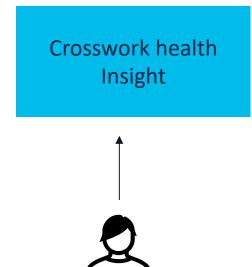
- Open Source
- Agentless
- Idempotency
- Declarative(non-procedural)

"Cisco Verb are Cisco version of Ansible Modules"

- 1. Check verb
- 2. Action verb



Telemetry Based KPI Monitoring

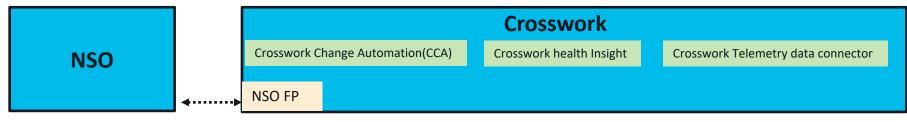








CrossWorks close loop workflow.

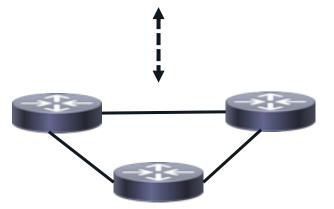


CCA: playbook execution

Health Insight: KPI Monitoring

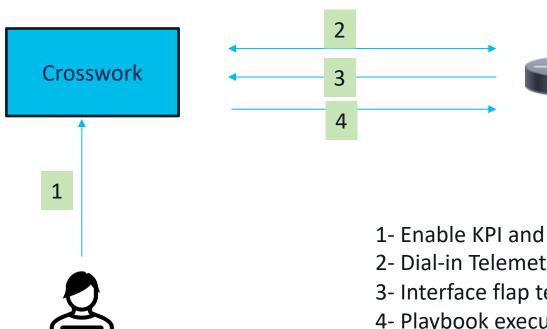
Telemetry collector: Dial-in telemetry

NSO: Provisioning





Task-2: Close-loop Automation config



- 1- Enable KPI and Link Playbooks
- 2- Dial-in Telemetry monitoring
- 3- Interface flap telemetry data
- 4- Playbook execution/remediation



Thank you



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