ONAP & External Applications

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Problem Statement

OSS/BSS

Ext API

3rd Party Controllers

Ext API
Problem Statement

Examples:
- External Optimization Apps
- Security Apps
Example Use Case

1. Detect ATTACK
2. Security App
3. Enforce Policy

WORKLOAD

VNF (e.g. vFW)

Attacker exploits vulnerability

Attack (e.g., performance degradation)
Example Use Case

1. Instantiate "clean" VNF
2. Migrate WORKLOAD
3. Isolate "affected" VNF
Option 1

Expose internal projects to ExtAPI

- Add Internal API
- Beyond ExtAPI scope?
Option 2

Exploit ONAP CLI or internal API

- Sec App must “speak” ONAP CLI
- How about Security?
Option 3

MSB API GW via Ext API

- Additional Plug-ins
- Routing logic
- How about Security?
Option 4

Dedicated API GW via Ext API

- Additional ONAP Project
- Beyond ExtAPI scope?
Option 5

“Exposed” MSB API GW

• How about Security?
“Exposed” dedicated API GW

- Additional ONAP Project
- How about Security?
Example: Option 2

Policy Framework

- Provides the capability to:
  - create and validate policies/rules
  - identify overlaps, resolve conflicts
  - derive additional policies as needed

Policy Enforcement

- Policies are used to control, influence, and help ensure compliance with goals. Policies can support infrastructure, products and services, operation automation, and security. Users, including network and service designers, operations engineers, and security experts, can easily create, change, and manage policy rules from the POLICY Manager in the ONAP Portal.

Information Sources

- DCAE [Software System]
- Other Systems [Software System]
- A&AI [Software System]

Policy Provisoning

- SDG [Software System]
- CLAMP [Software System]
- Other Systems [Software System]