

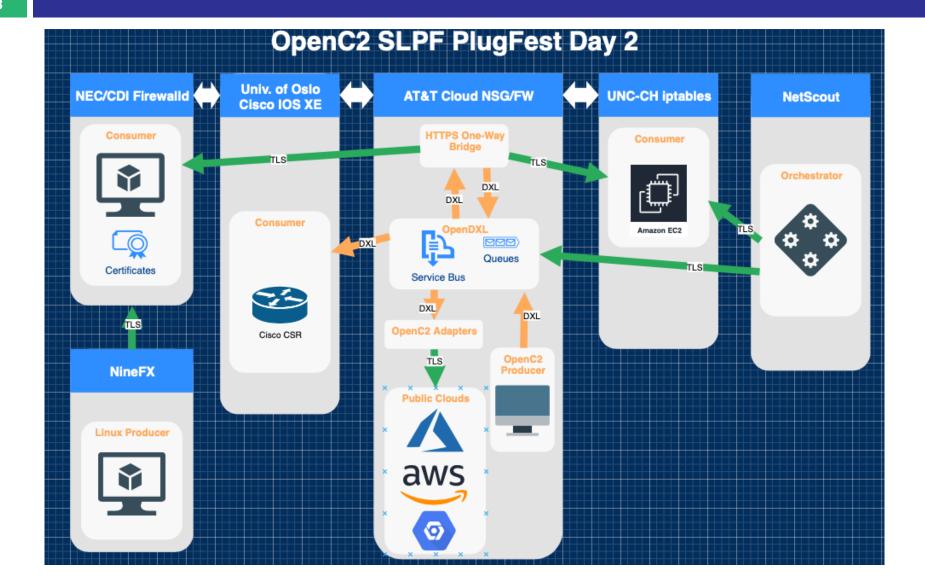
PLUG FEST/ HACK-A-THON

27, 28 JAN 2020 UMBC Training Center Columbia, Maryland

Day2 Update from Firewall/SLPF/SFPF

- OpenC2 Actuator Profiles
 - 5-10 participants today
 - Univ. Of Oslo, AT&T, NetScout, New-Context, CyberDefense Institute/NEC, Univ. Of North Carolina
 - 4 implementations: Azure/AWS/GCP, firewalld, Cisco IOS XE, iptables
 - Integration work
 - Utilized two transport layers and built a 1-way bridge
 - Commands in OpenDXL to (OpenDXL and HTTPS)
 - Incorporates Request-ID in topic
 - Responses from HTTPS to OpenDXL message bus
 - □ 17 issues identified during plugfest

Overview of Integration



Demo OpenDXL

■ Michael Stair, AT&T

Next Steps

- Happy to get feedback; take a look at code or online demos
 - Generate pull requests or email openc2 list for issues identified

Day 2 Issues

- Protocol not set, but port set
- □ Protocol String or Int ? 0-255 is cleaner
- □ Ambiguity in ipv4/ipv6_connection
- □ What if actuator doesn't support SCTP, ICMP Type?

References

- https://github.com/alevere/openc2-python-slpfiptables/
- https://github.com/korc/openc2-firewalld
- https://github.com/Vasileios-Mavroeidis/openc2plugfest/tree/master/2020-January
- □ https://www.netscout.com
- Look next week for AT&T code