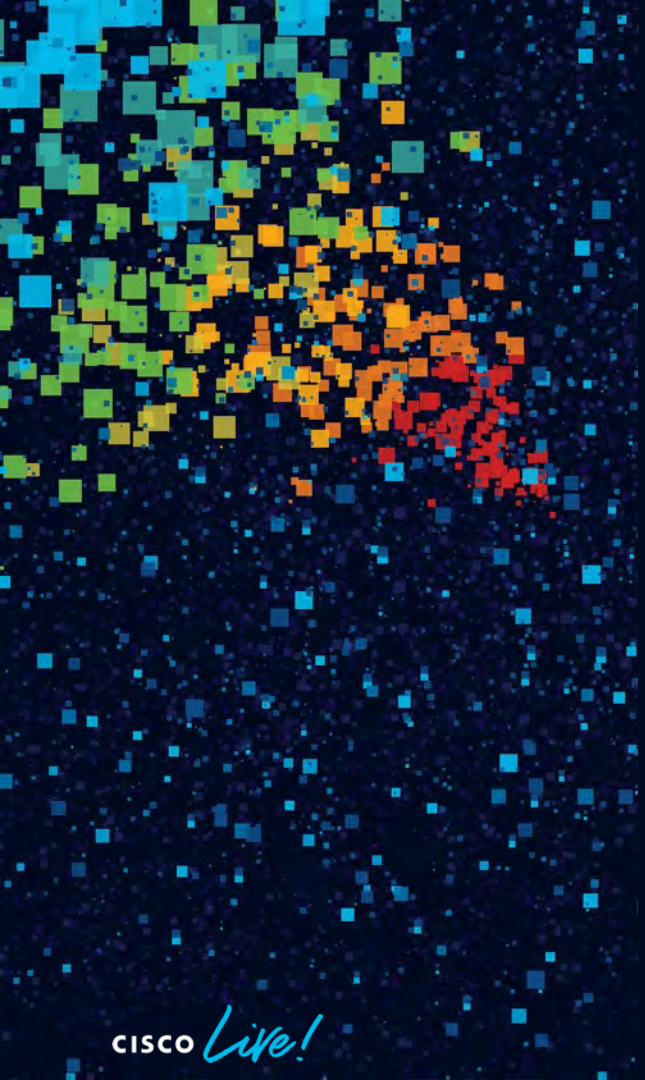
Get Webhook'd

Gabi Zapodeanu
Technical Marketing Engineer
Cisco Systems

gzapodea@cisco.com
@zapodeanu
GitHub github.com/cisco-en-programmability
YouTube http://cs.co/EN-Programmability-Videos

cisco Live!

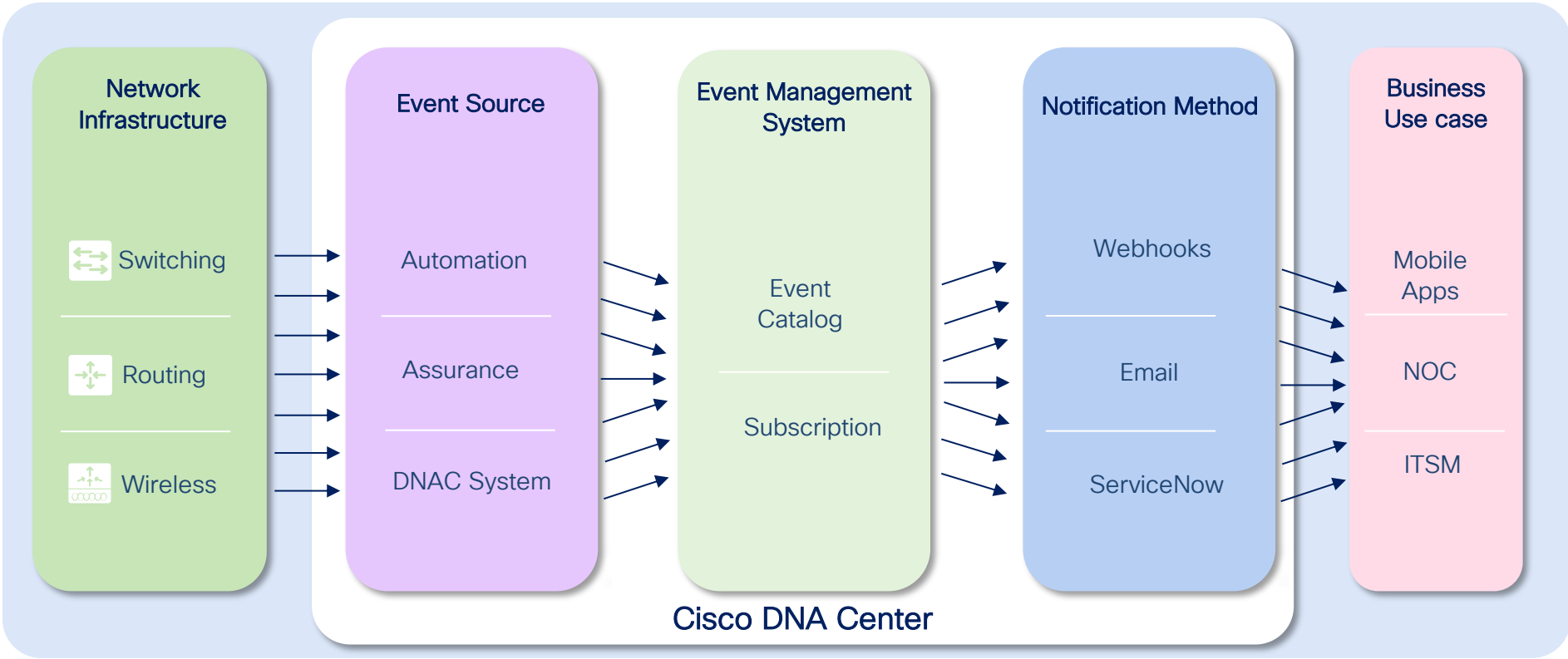
cisco



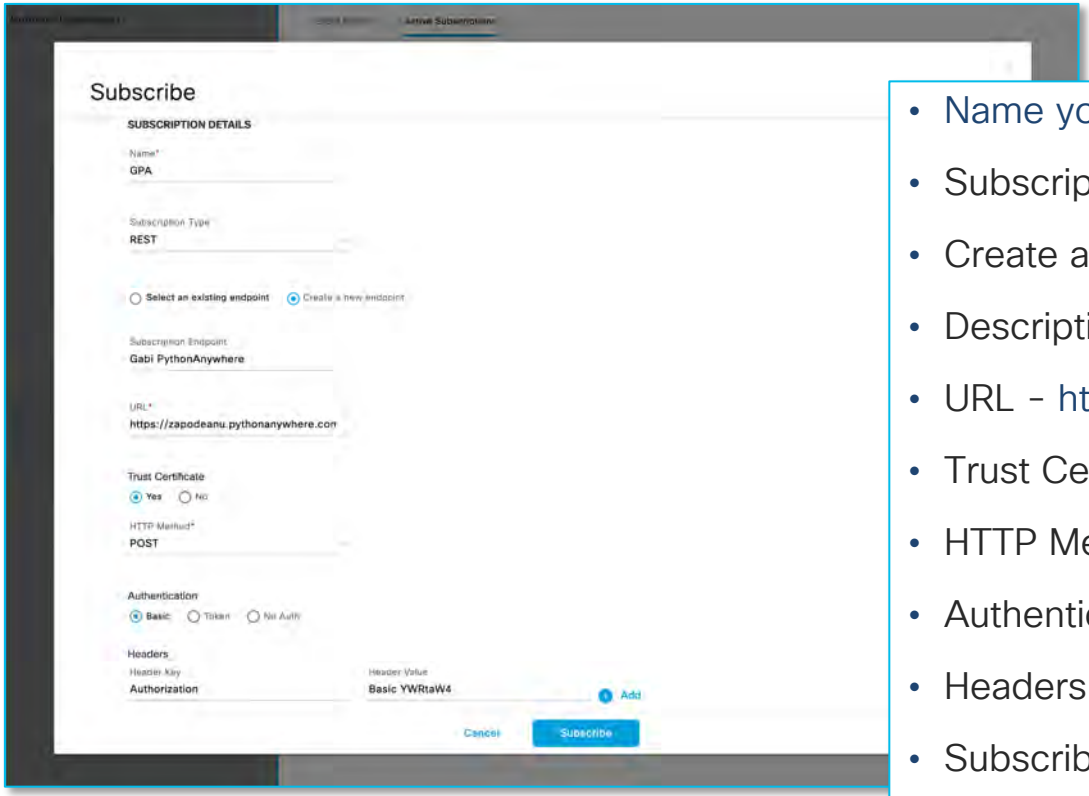
Agenda

- Cisco DNA Center Event Notifications
- Build your Integration
- Developer Resources

Cisco DNA Center Event Notification Framework



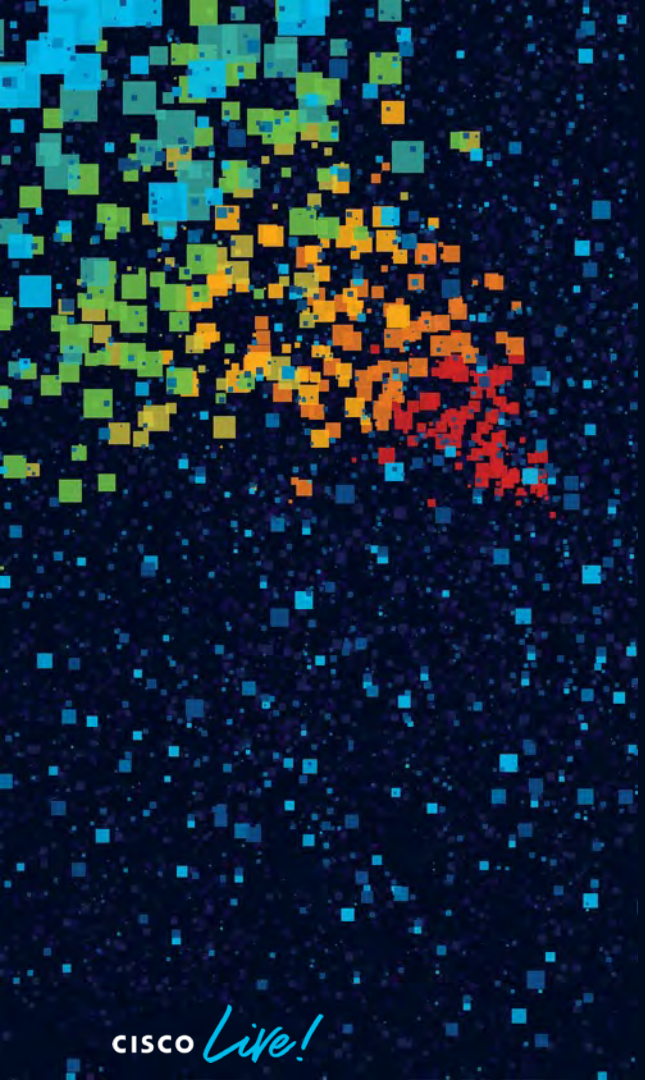
Configure Cisco DNA Center Webhooks



- Name your subscription
- Subscription Type – REST
- Create a new endpoint
- Description of the new endpoint
- URL – https://your_app_url/webhook
- Trust Certificate – yes
- HTTP Method – POST/PUT
- Authentication – Basic
- Headers – Authorization + Basic YWRtaW4…
- Subscribe

Cisco DNA Center Webhook Sample Payload

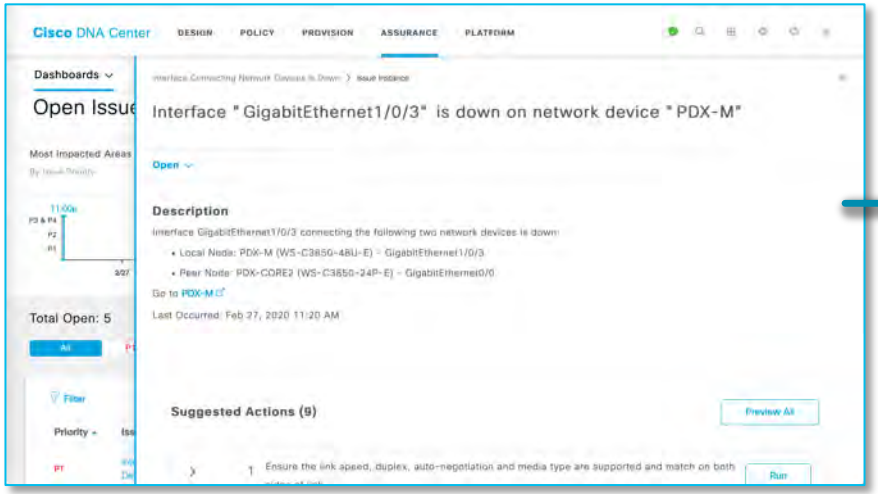

```
{
    "version": "",
    "instanceId": "ea6e28c5-b7f2-43a4-9937-def73771c5ef",
    "eventId": "NETWORK-NON-FABRIC_WIRED-1-251",
    "namespace": "ASSURANCE",
    "name": "",
    "description": "",
    "type": "NETWORK",
    "category": "ALERT",
    "domain": "Connectivity",
    "subDomain": "Non-Fabric Wired",
    "severity": 1,
    "source": "ndp",
    "timestamp": 1574457834497,
    "tags": "",
    "details": {
        "Type": "Network Device",
        "Assurance Issue Priority": "P1",
        "Assurance Issue Details": "Interface GigabitEthernet1/0/3 on the following network device is down:
                                    Local Node: PDX-M",
        "Device": "10.93.141.17",
        "Assurance Issue Name": "Interface GigabitEthernet1/0/3 is Down on Network Device 10.93.141.17",
        "Assurance Issue Category": "Connectivity",
        "Assurance Issue Status": "active"
    },
    "ciscoDnaEventLink": "https://10.93.141.35/dna/assurance/issueDetails?issueId=ea6e28c5-b7f2-43a4-9937-def73771c5ef",
    "note": "To programmatically get more info see here - https://<ip-address>/dna/platform/app/consumer-portal/developer-
             toolkit/apis?apiId=8684-39bb-4e89-a6e4”,
    …
}
```

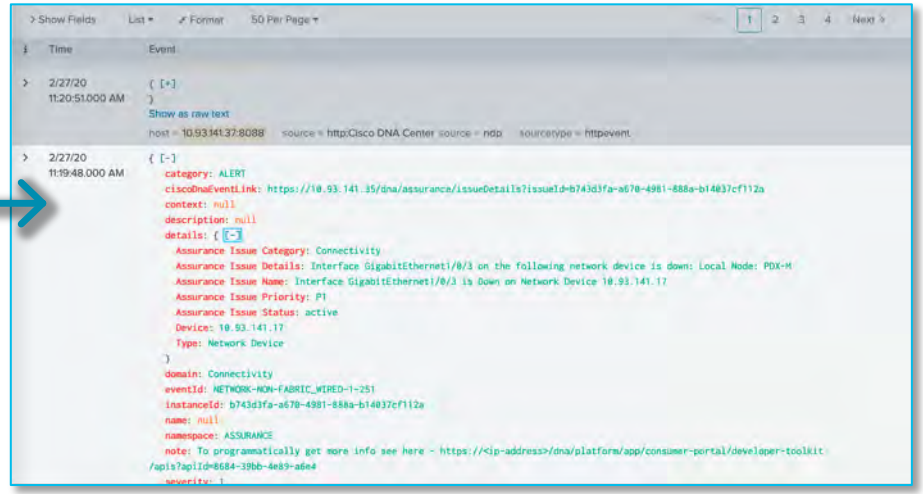


Agenda

- Cisco DNA Center Event Notifications
- Build your Integration
- Developer Resources

Send Notifications from Cisco DNA Center to Splunk

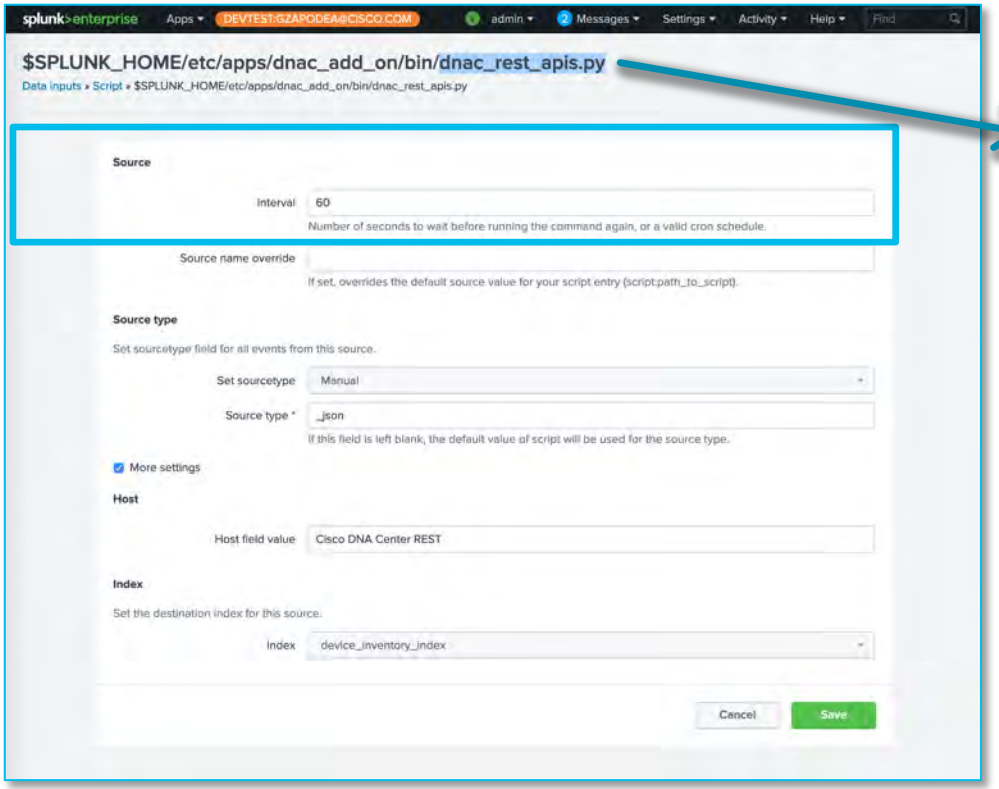




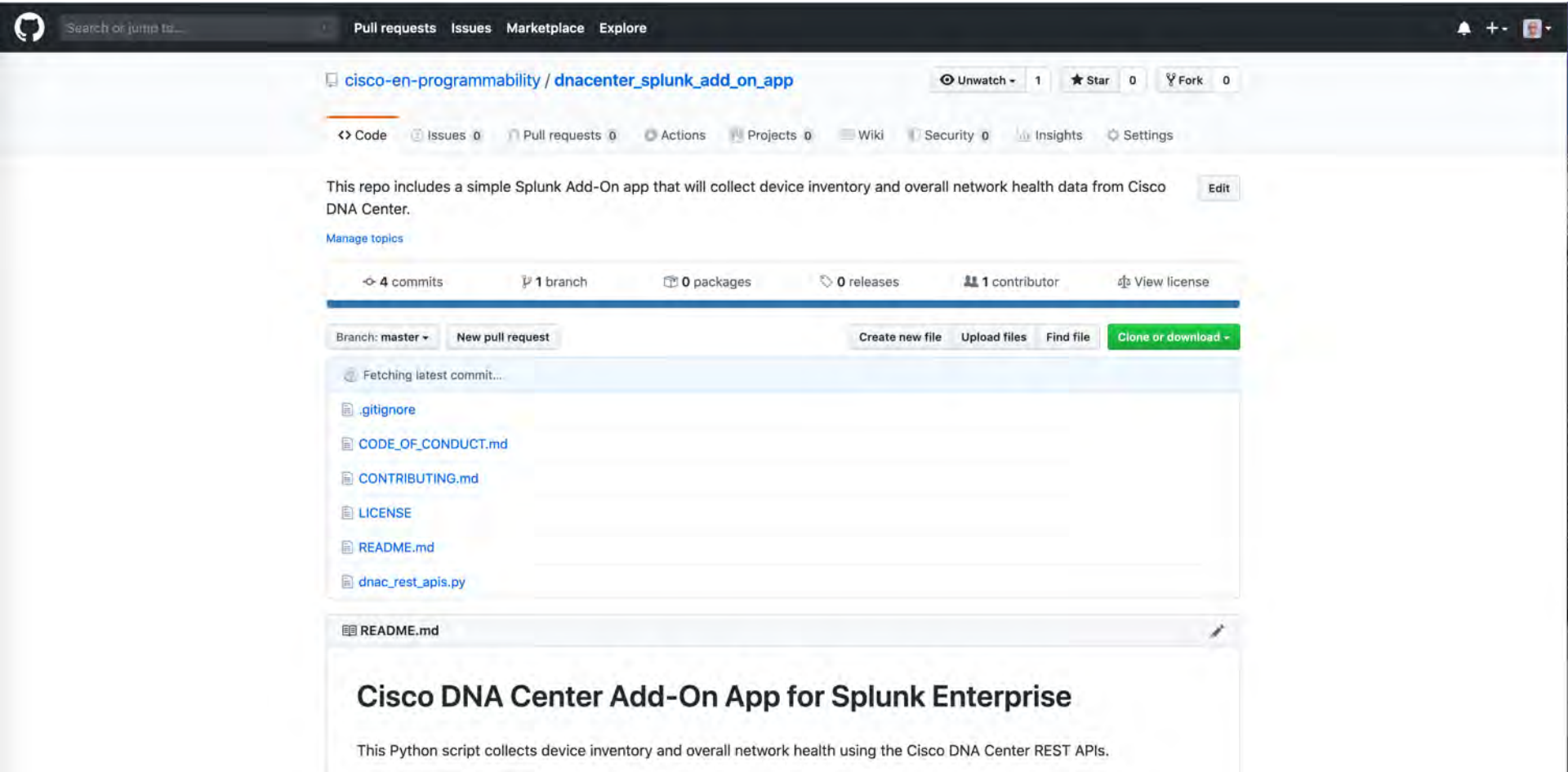
Cisco DNA Center API

Sample Cisco DNA Center Add-on App

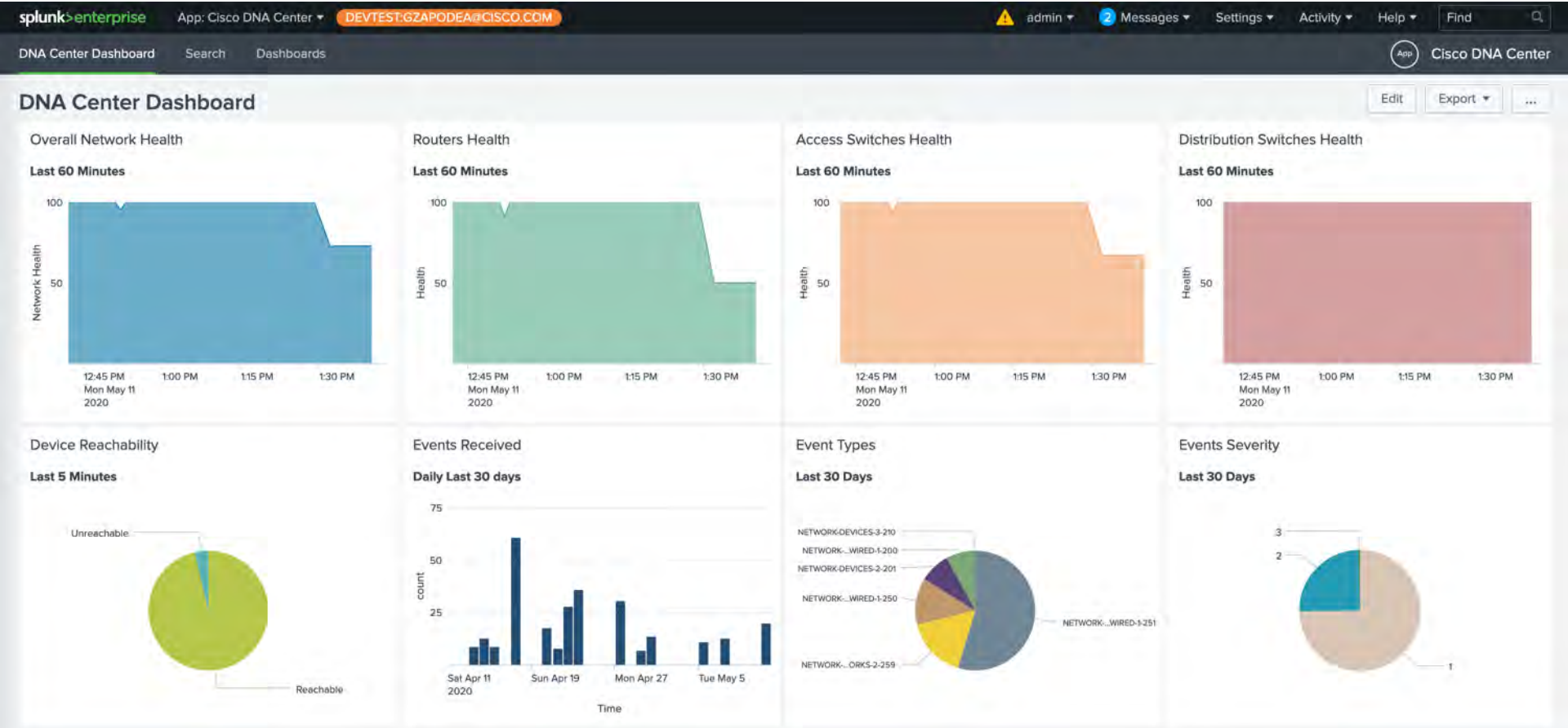
Device Inventory Collection & Overall Network Health, every 60 seconds



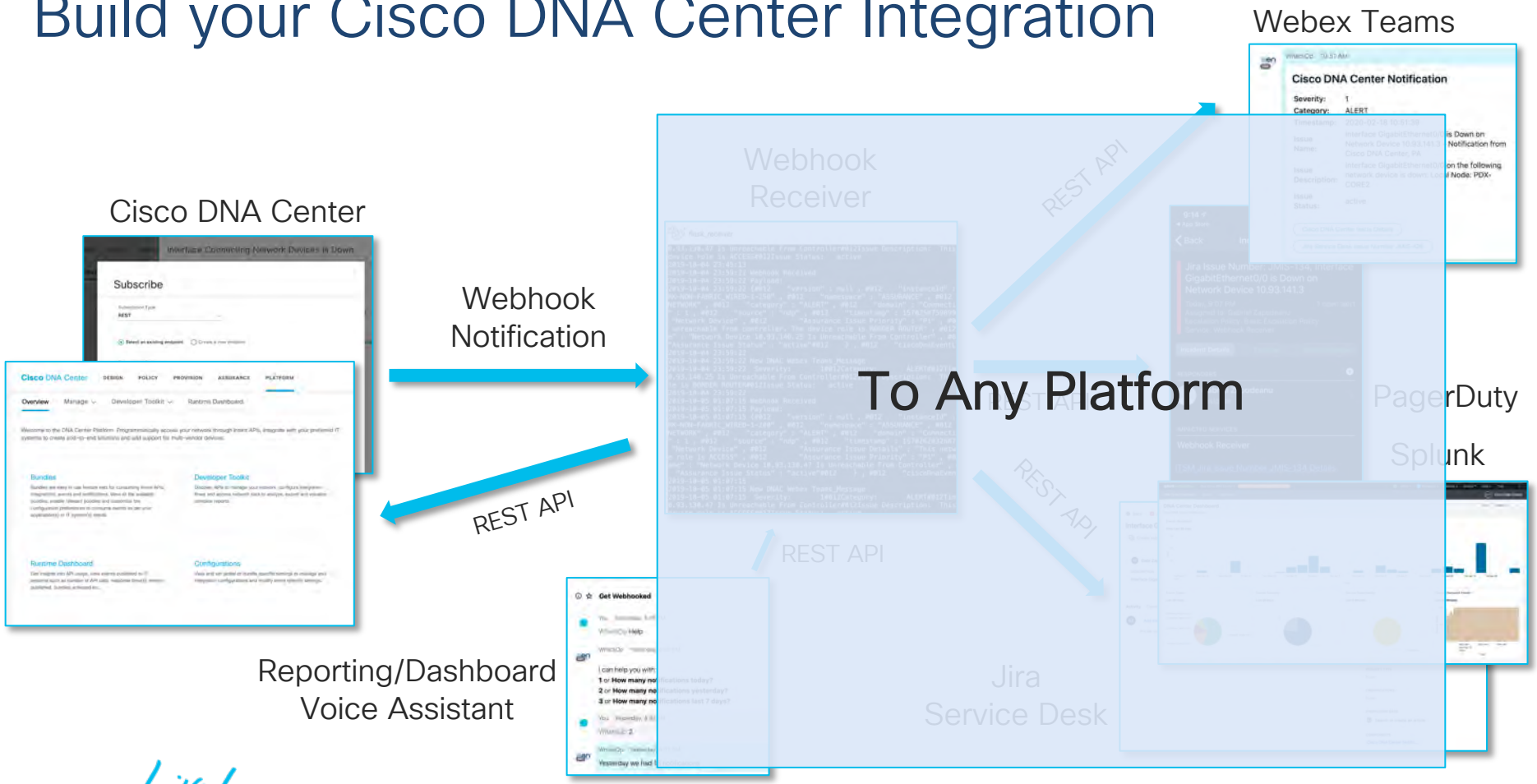
Cisco DNA Center to Splunk

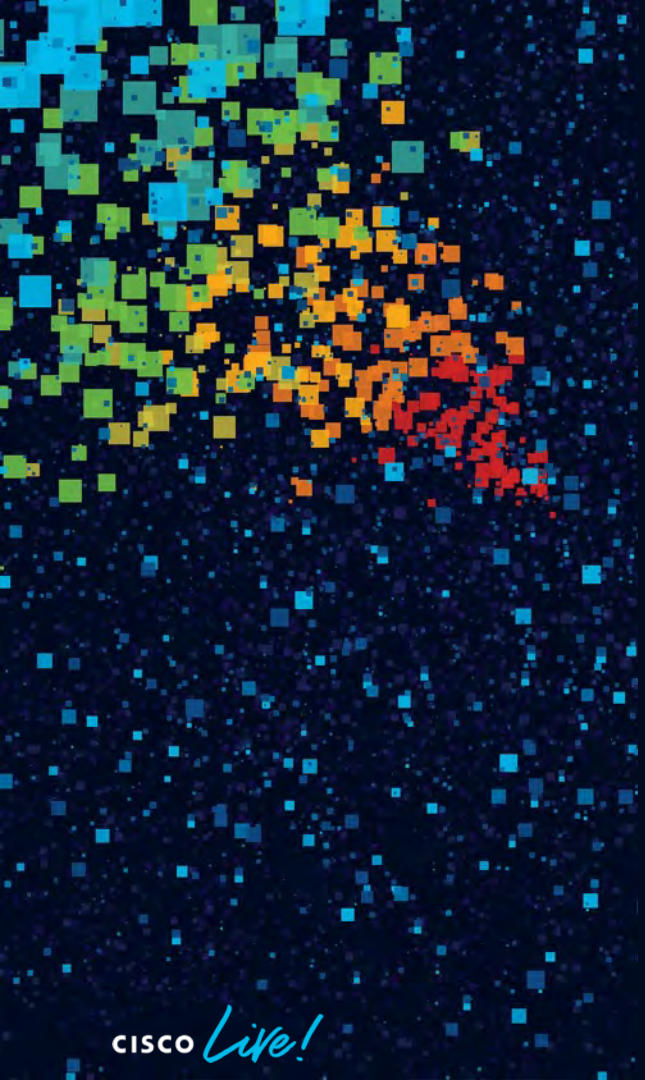


Demo


splunk>enterprise
App: Cisco DNA Center
DEVTEST:GZAPODEA@CISCO.COM
admin
2 Messages
Settings
Activity
Help
Find
DNA Center Dashboard
Search
Dashboards
Cisco DNA Center
DNA Center Dashboard
Edit
Export
...
Overall Network Health
Last 60 Minutes
Network Health
100
50
12:45 PM Mon May 11 2020
1:00 PM
1:15 PM
1:30 PM
Routers Health
Last 60 Minutes
Health
Access Switches Health
Last 60 Minutes
Distribution Switches Health
Last 60 Minutes
Device Reachability
Last 5 Minutes
Unreachable
Reachable
Events Received
Daily Last 30 days
count
75
50
25
Sat Apr 11 2020
Sun Apr 19
Mon Apr 27
Tue May 5
Time
Event Types
Last 30 Days
NETWORK-DEVICES-3-210
NETWORK-...WIRED-1-200
NETWORK-DEVICES-2-201
NETWORK-...WIRED-1-250
NETWORK-...ORKS-2-259
NETWORK-...WIRED-1-251
Events Severity
Last 30 Days
3
2
1

Build your Cisco DNA Center Integration



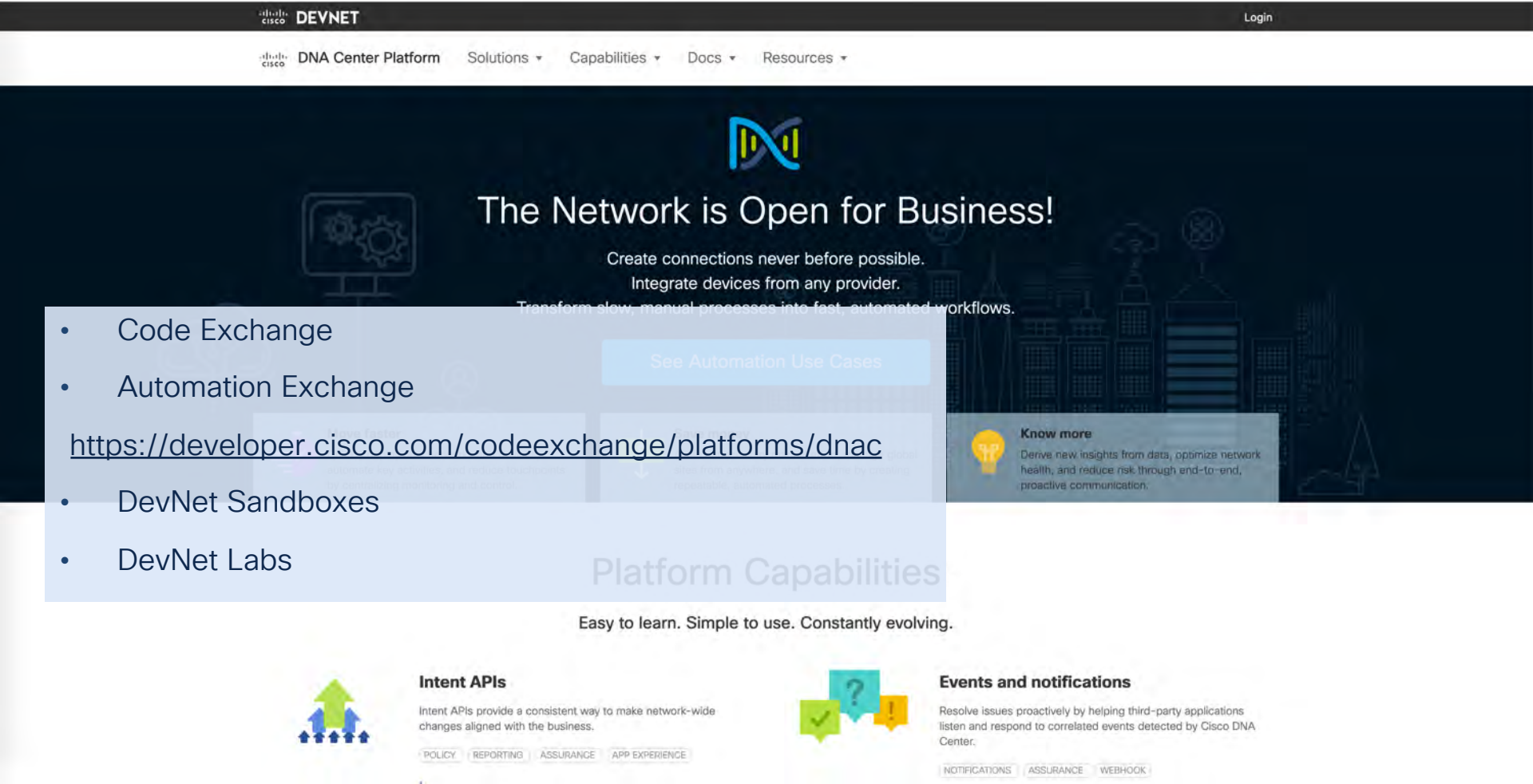


Agenda

- Cisco DNA Center Event Notifications
- Build your Integration
- Developer Resources

Developer Resources

https://developer.cisco.com/dnacenter/



- Code Exchange
- Automation Exchange

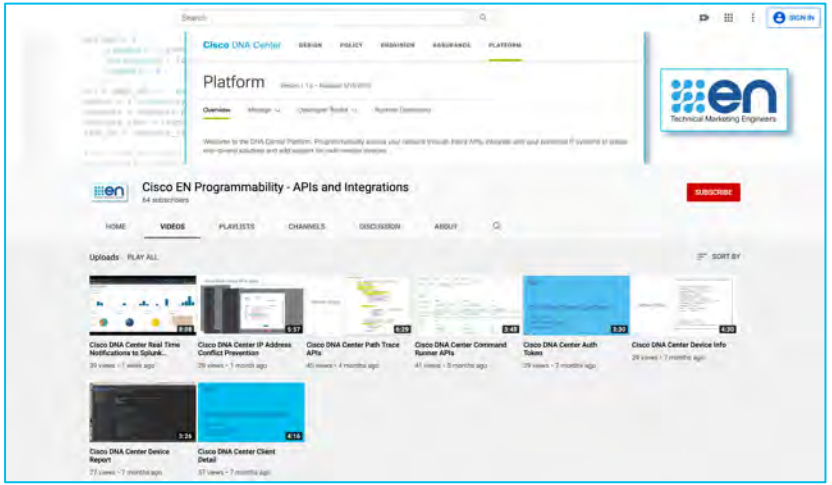
https://developer.cisco.com/codeexchange/platforms/dnac

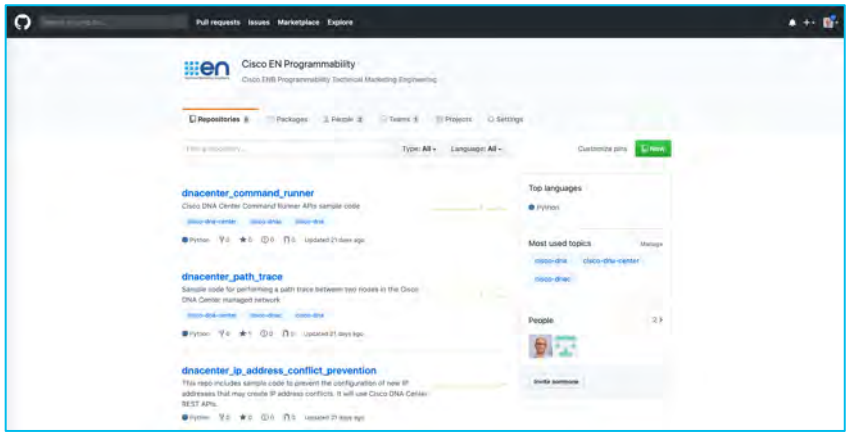
- DevNet Sandboxes
- DevNet Labs

Developer Resources - Continued

- Cisco EN Programmability YouTube Channel
- Cisco EN Programmability GitHub Organization:
  - Cisco DNA Center SDK
  - Sample Code

http://cs.co/EN-Programmability-Videos





https://github.com/cisco-en-programmability

Thank you

Possibilities

#CiscoLive | #DevNetDay