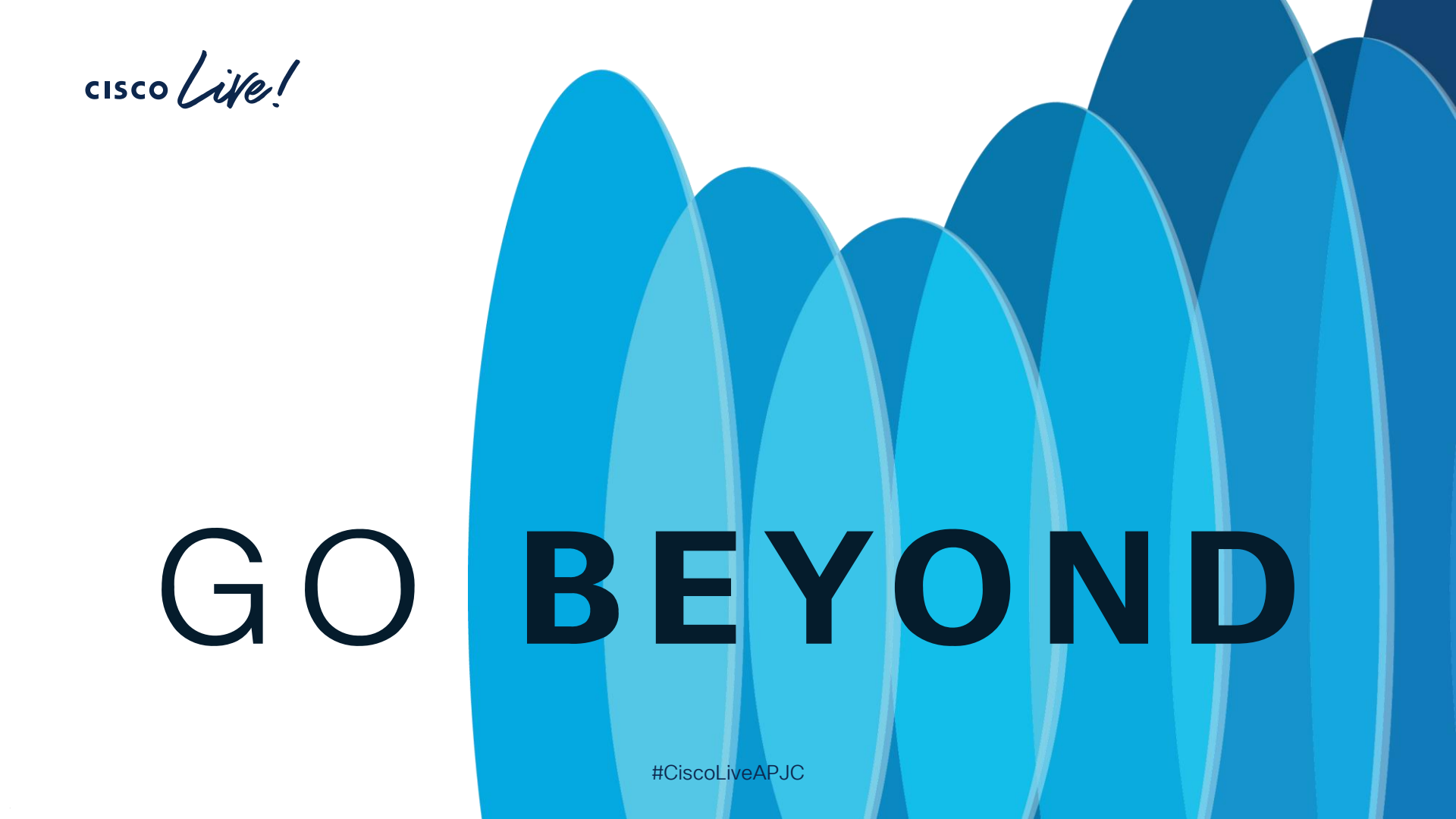
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GO BEYOND
#CiscoLiveAPJC

Demystifying Cisco Secure Access and Umbrella APIs

Navigating Use Cases and Best Practices

Yaron Caspy, Product Manager

DEVNET-2274

Cisco Webex App

https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-2274

Questions?

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How

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2. Click “Join the Discussion”
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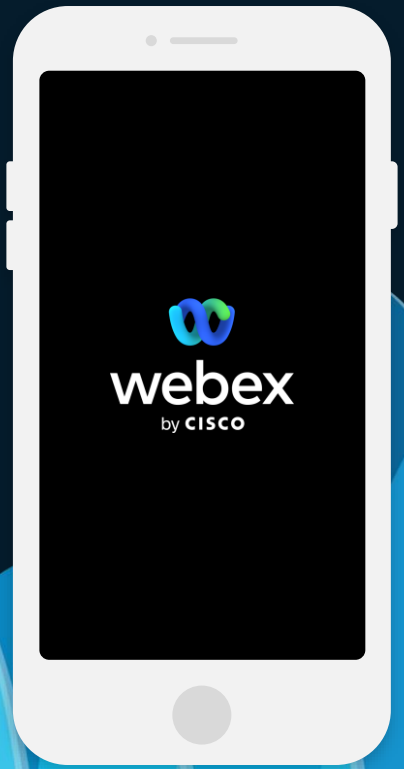
4. Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until November 15, 2024.



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Agenda

- Introduction
- whoami
- APIs and Use Cases
- Navigating Reports
- Navigating Rules
- Transparency
- Resources

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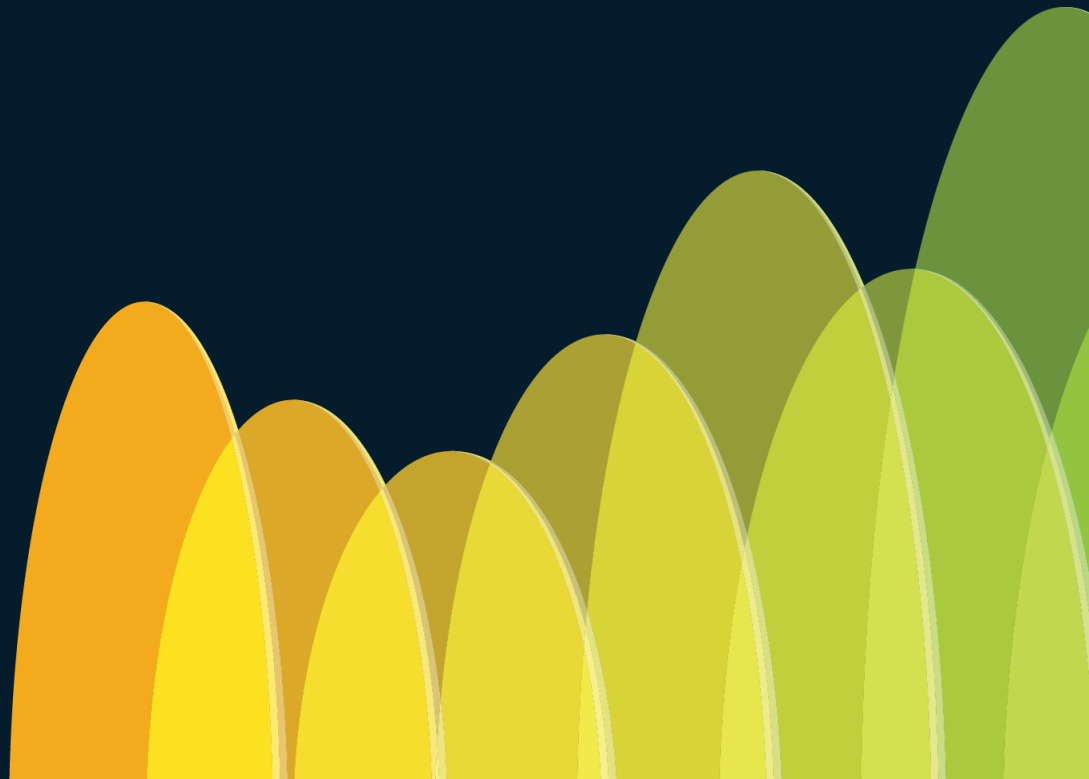
Introduction



Introduction

Umbrella -> SIG -> SSE -> SASE

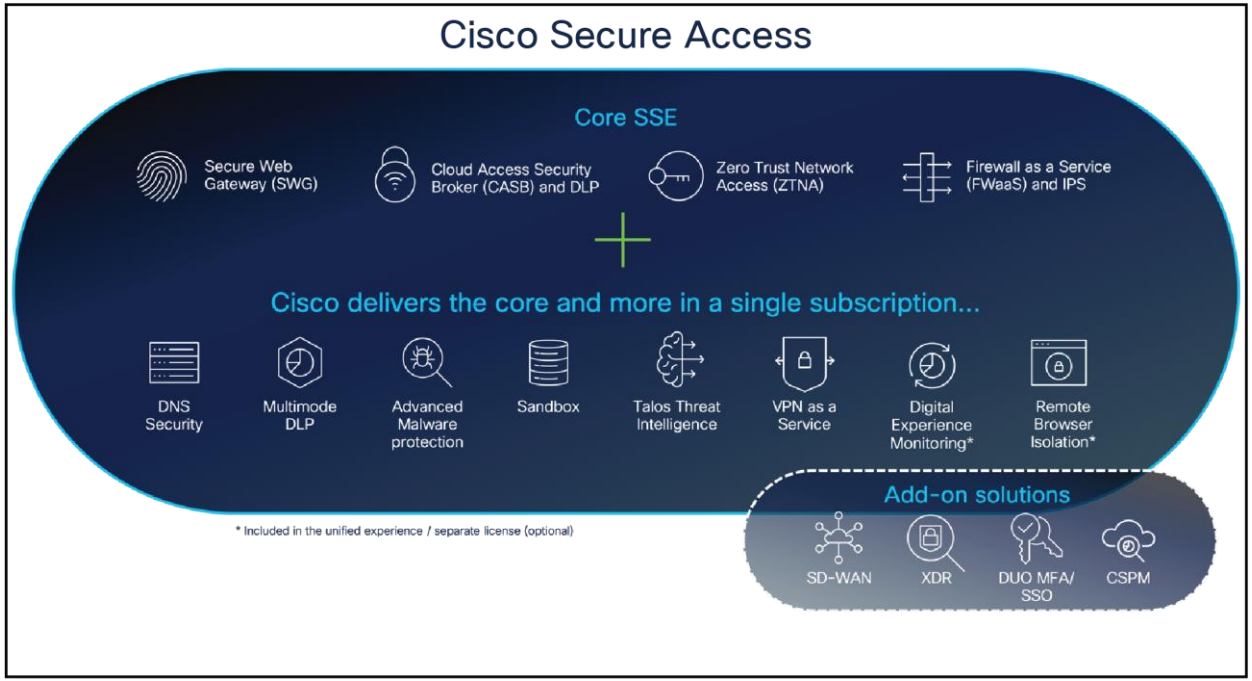
Cisco Umbrella

Secure Web Gateway (SWG)

Cloud Access Security Broker (CASB)

DNS security

Firewall as a Service (FWaaS)



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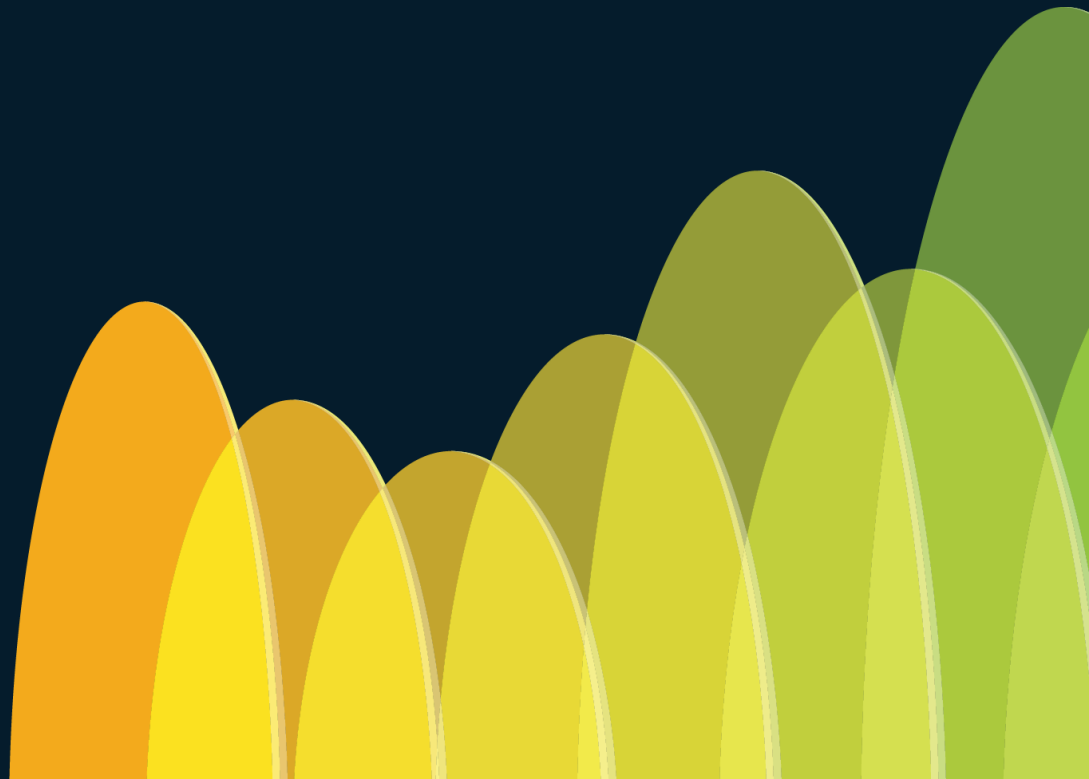
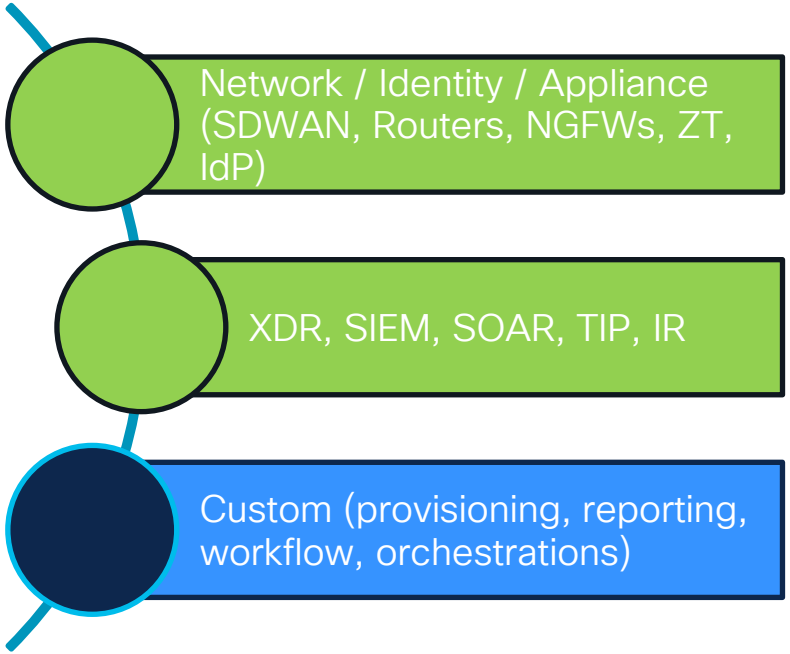
whoami



Who uses our APIs?

whoami

- CISO
- Security Architect
- Security/Network Admins
- Engineers/DevOps/Admins
  - Security
  - Core
  - Outsourced
  - 3rd party



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APIs and Use Cases

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The Common Denominator is...

Use Case	Examples
Auth	Authentication
Admin	General Configuration
Deployments	Your Identities
Policies	Rules, Lists, etc...
Reports	What is going on?
Investigate	Enrichment

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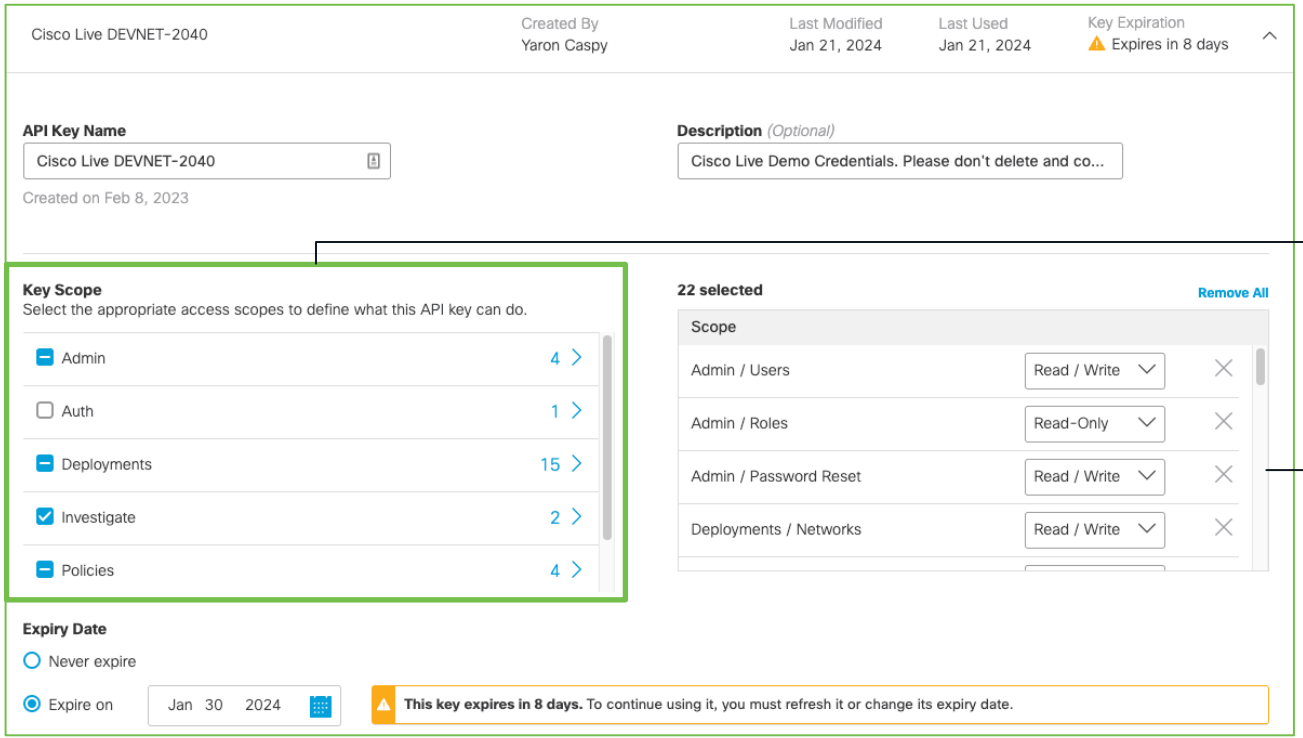
Credential Controls (UI and API)



Groups=Use Cases

Permissions

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https://api.umbrella.com

https://api.sse.cisco.com

In the Path

Admin	https://api.xxxxx.com/admin/v2/users
Reports	https://api. xxxxx.com/reports/v2/top-categories
Policies	https://api. xxxxx.com/policies/v2/destinationlists
Deployments	https://api. xxxxx.com/deployments/v2/roamingcomputers
Investigate	https://api. xxxxx.com/investigate/v2/domains/categorization

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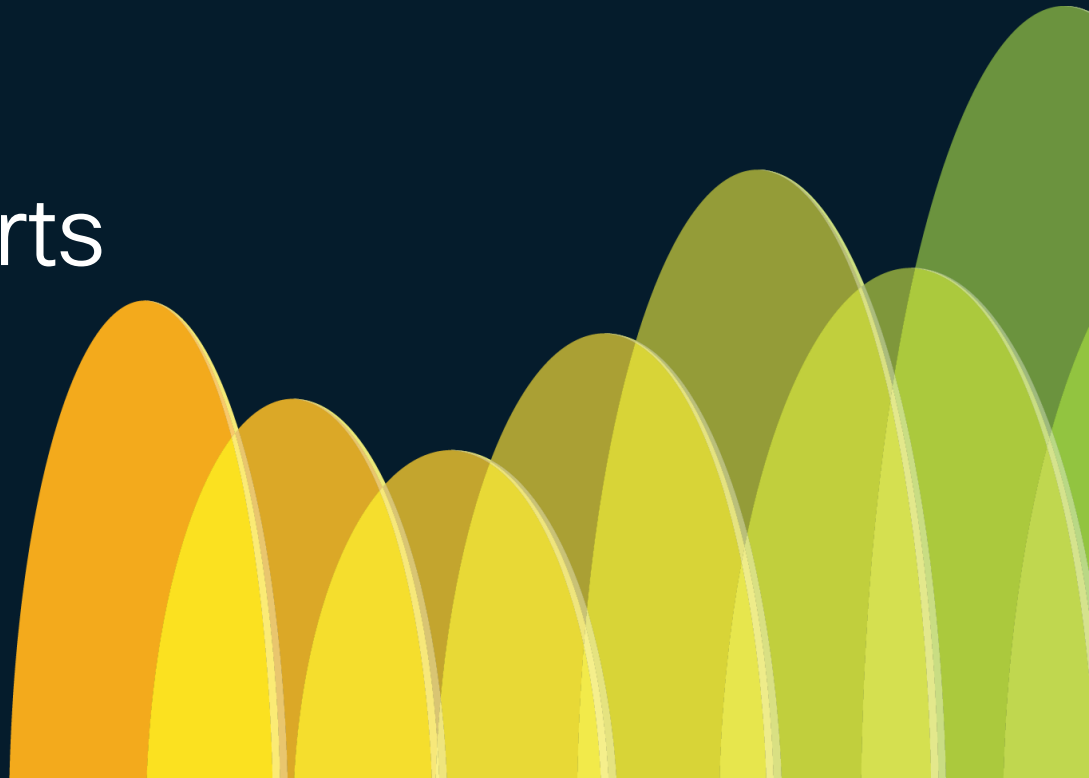
Navigating Reports



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~~IF YK YK~~

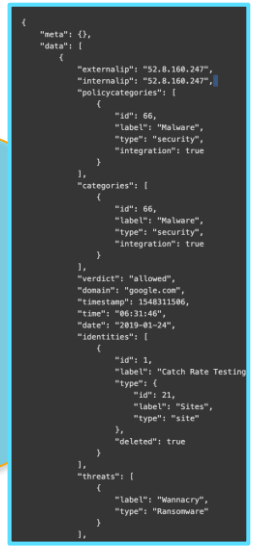
reports.granularevents:read

reports.utilities:read

Utilities

../identities
../categories
../applications
../threat-types
....

Granular Events



"reports.aggregations:read

Aggregations

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Navigating Rules

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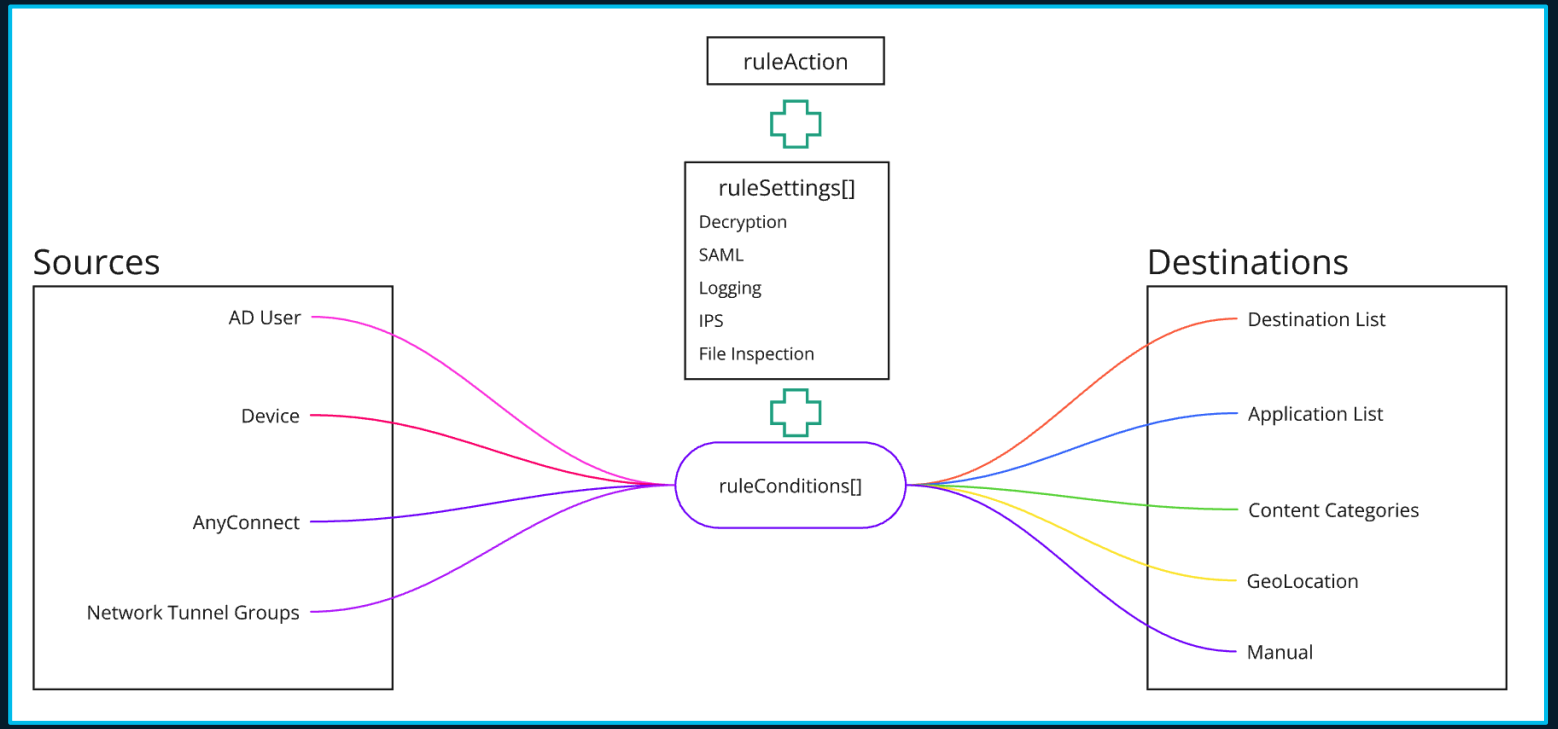
Anatomy of a Public Rule



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Attributes

Sources	Destinations
umbrella.source.identity_type_ids	umbrella.destination.category_ids
umbrella.source.identity_ids	umbrella.destination.destination_list_ids
umbrella.source.ip_address	umbrella.destination.ip_address
umbrella.source.port	umbrella.destination.ip_port
umbrella.source.xxxxx	umbrella.destination.xxxxx

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A Public Rule as an Example

../policies/v2/rules

High Level info
Action
Priority
.....

../policies/v2/rules/{ruleId}

Settings and Conditions


```
{
        "attributeId": 2,
        "attributeValue": [
                RoamingComputerID1,
                RoamingComputerID2
        ],
        "attributeName": "umbrella.source.identity_ids",
        "attributeOperator": "INTERSECT"
}
```


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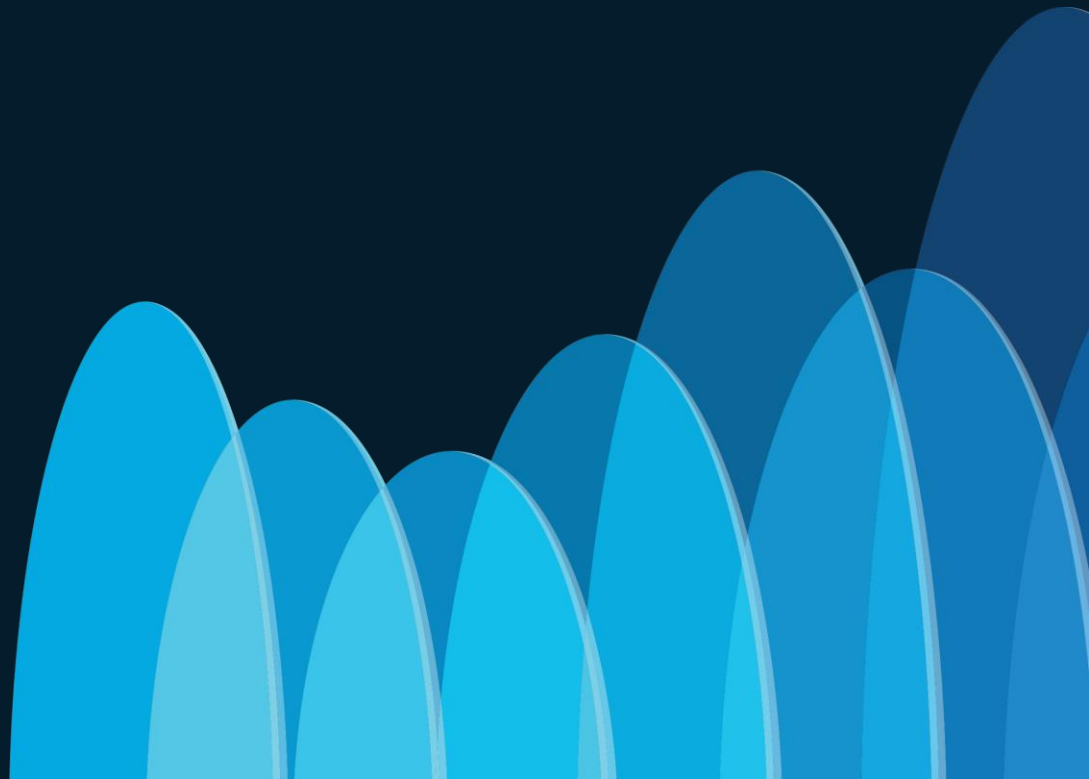
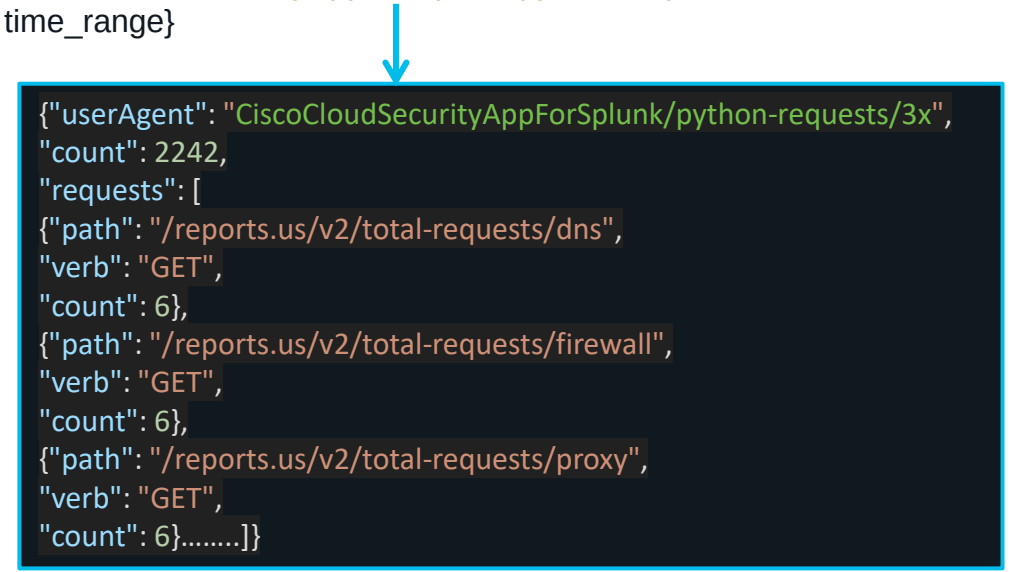
Transparency



Transparency

```
headers = {'Content-Type': 'application/json',
           'Accept': 'application/json',
           'User-Agent': 'CiscoCloudSecurityAppForSplunk/python-requests/3x',
           'timerange': time_range}
```



```
{"userAgent": "CiscoCloudSecurityAppForSplunk/python-requests/3x",
"count": 2242,
"requests": [
{"path": "/reports.us/v2/total-requests/dns",
"verb": "GET",
"count": 6},
{"path": "/reports.us/v2/total-requests/firewall",
"verb": "GET",
"count": 6},
{"path": "/reports.us/v2/total-requests/proxy",
"verb": "GET",
"count": 6}.....]}
```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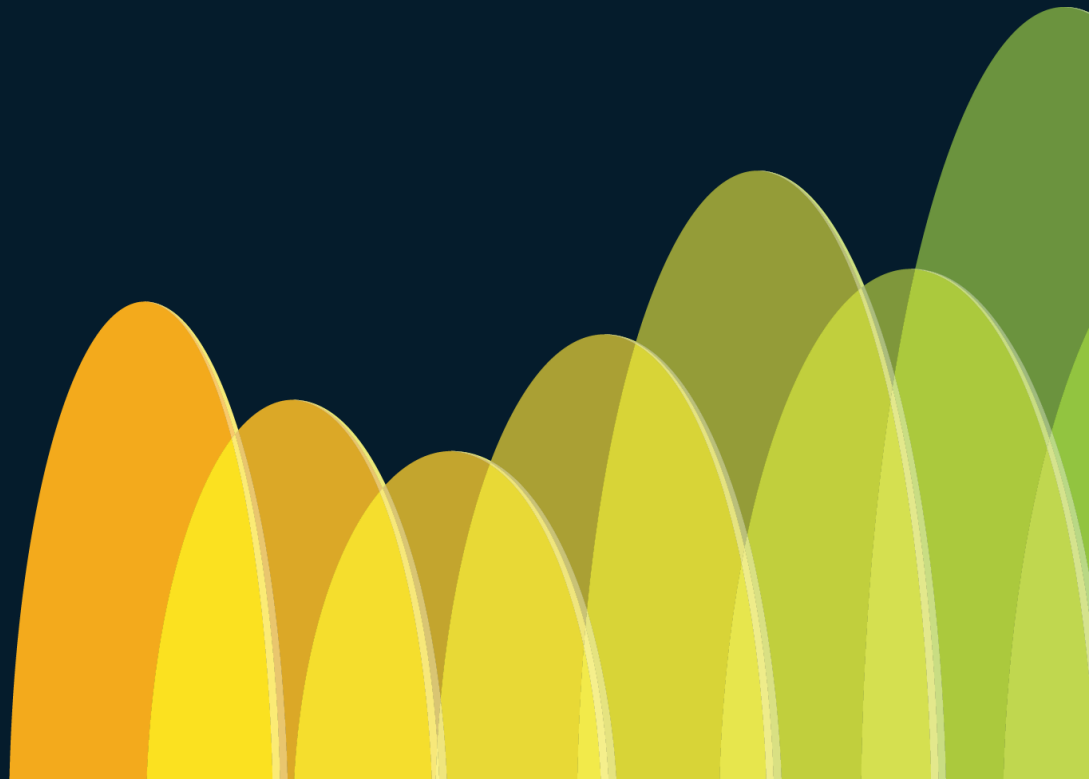
Resources



What do I do now?

- API Documentation (OAS)
- Get started with examples:
  - Umbrella
  - Secure Access
- Start your IDE's and implement Best Practices in terms of Authentication:
  - Umbrella
  - Secure Access
- Track your Usage
- DevNet Sandbox for SIG
- Self-paced course on the Umbrella Learning Hub
- Cisco Developer Learning Labs Center

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Keynote Deep Dives

Wednesday
10:30am –11:30am

Experiences Amplified: How AI Can Fuel Better Employee and Customer Experiences

Level 1
Room 106

Smart, Secure, Seamless: Transforming Experiences with Next-Generation Networking

Level 2
Room 204

Harness a Bold New Era: Transform Data Centre and Service Provider Connectivity

Level 2
Room 203

Securing User to Application and Everything in Between

Level 2
Melbourne Room 2

Unlocking Digital Resilience through Unified Observability

The HUB
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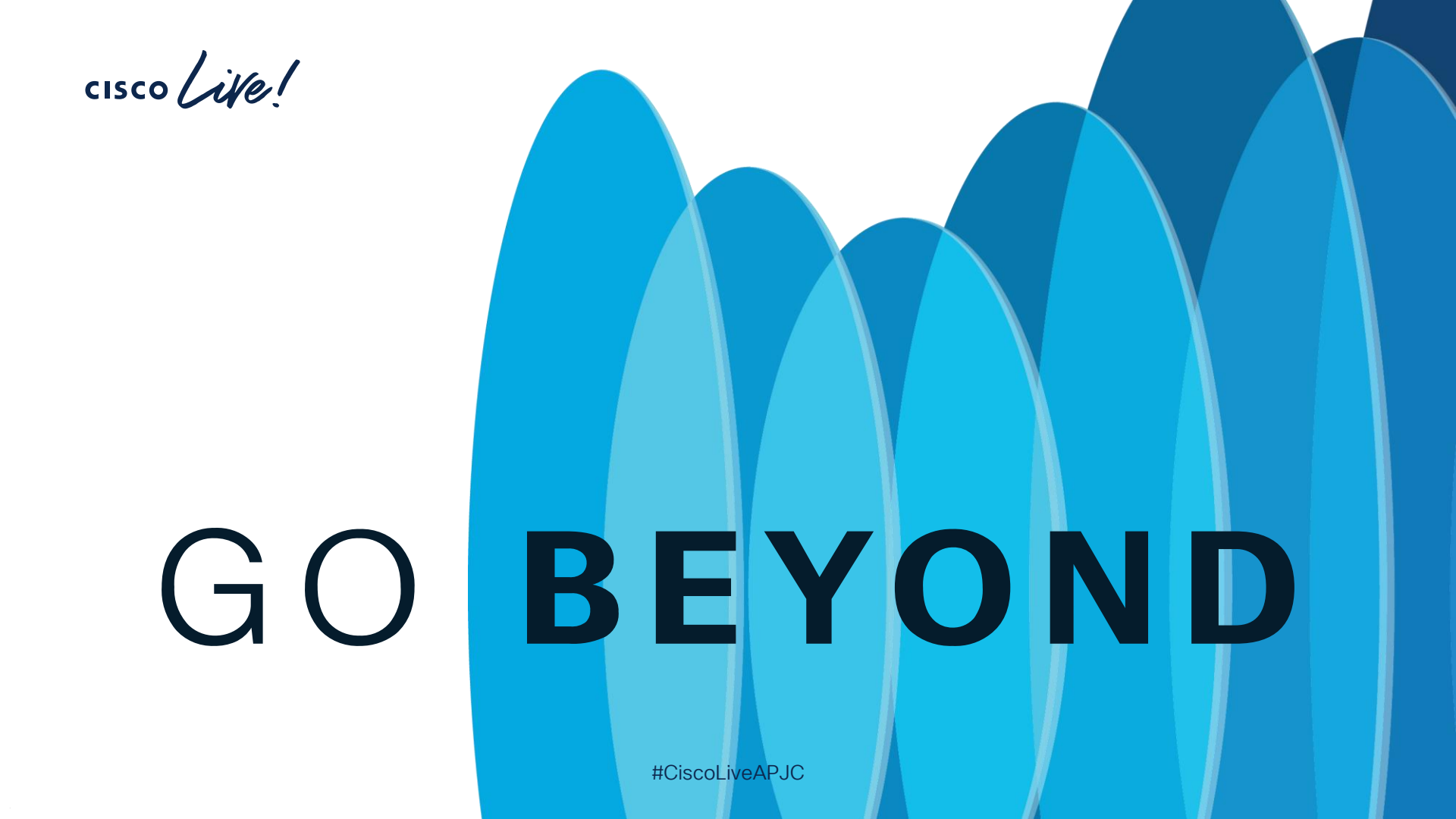
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