You make **possible**

Learn about Umbrella APIs

Eric Eddy
Technical Marketing Engineer - Cloud Security

DEVNET-3196

Barcelona | January 27-31, 2020

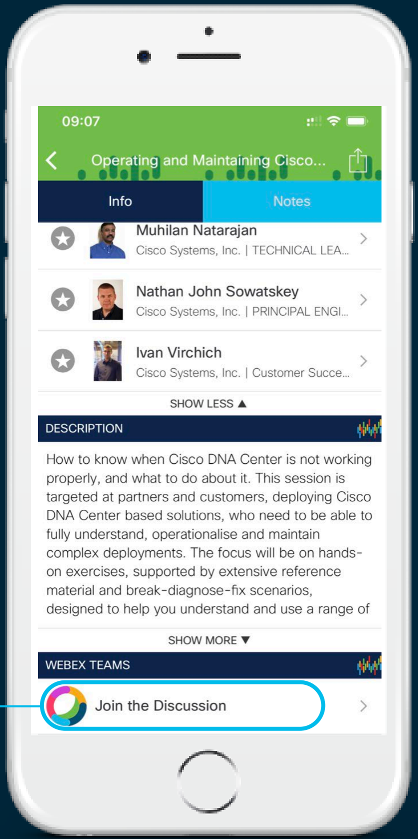
Cisco Webex Teams

Questions?

Use Cisco Webex Teams to chat
with the speaker after the session

How

1. Find this session in the Cisco Events Mobile App
2. Click “Join the Discussion”
3. Install Webex Teams or go directly to the team space
4. Enter messages/questions in the team space



09:07

Operating and Maintaining Cisco...

Muhilan Natarajan
Cisco Systems, Inc. | TECHNICAL LEA...

Nathan John Sowatskey
Cisco Systems, Inc. | PRINCIPAL ENGI...

Ivan Virchich
Cisco Systems, Inc. | Customer Succe...

DESCRIPTION

How to know when Cisco DNA Center is not working properly, and what to do about it. This session is targeted at partners and customers, deploying Cisco DNA Center based solutions, who need to be able to fully understand, operationalise and maintain complex deployments. The focus will be on hands-on exercises, supported by extensive reference material and break-diagnose-fix scenarios, designed to help you understand and use a range of

WEBEX TEAMS

cisco Live!

Agenda

- What is Umbrella?
- RESTful API Basics
- Why Integrate & Getting Started
- Umbrella APIs & Use Cases
- Demo Use Cases
- Summary & Q&A

About me

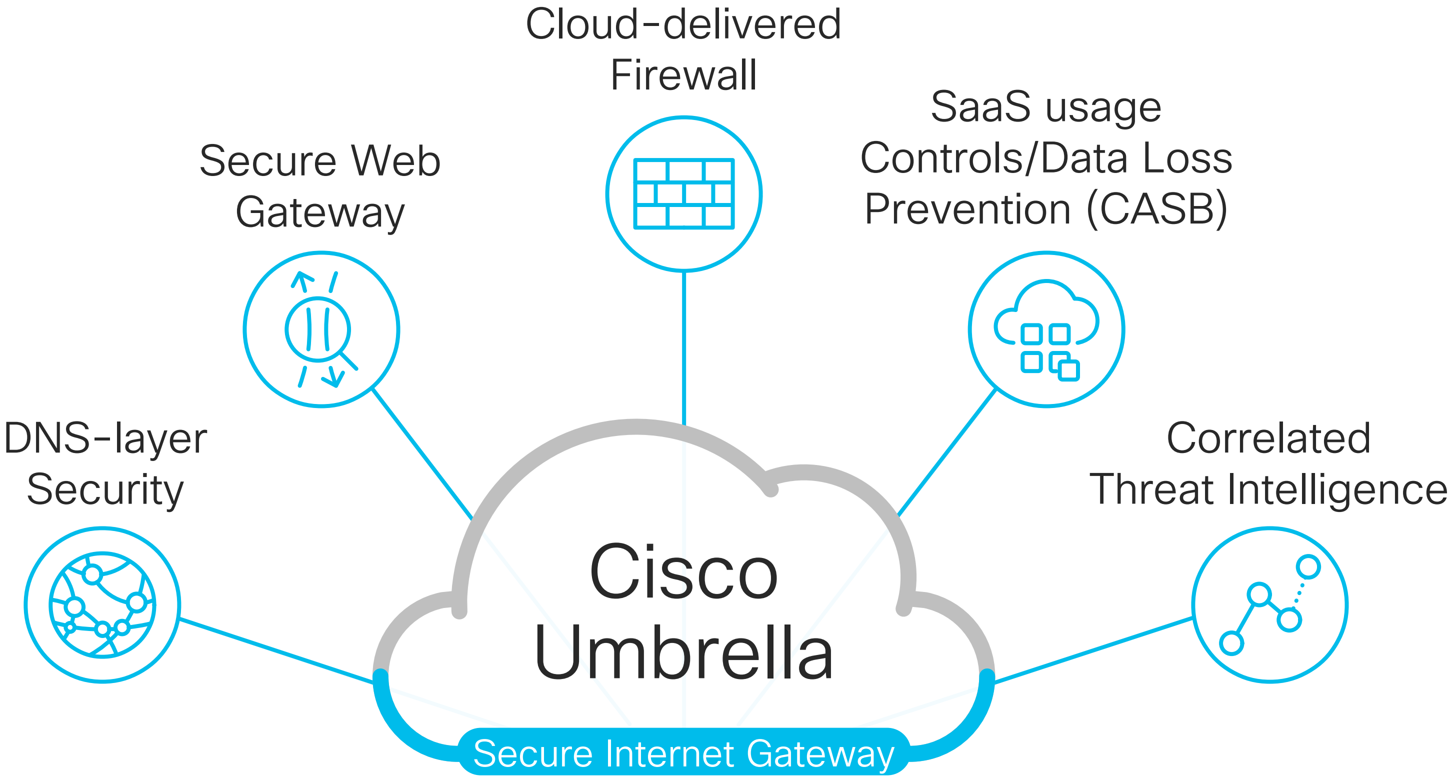
Eric Eddy, Technical Marketing Engineer, Cisco Cloud Security Business Group. Eric is a 9-year veteran of Cisco, holding many different roles related to network security. Eric has worked with 100's of different customers spanning across all geographies and market segments to help design, troubleshoot, and deploy network security solutions. Eric holds a B.S. in Applied Networking and Systems Administration from Rochester Institute of Technology.

CISCO CERTIFIED CCIE SECURITY

CCIE Security #47300

What is Umbrella?

Umbrella Secure Internet Gateway



Cloud-delivered Firewall

Secure Web Gateway

SaaS usage Controls/Data Loss Prevention (CASB)

DNS-layer Security

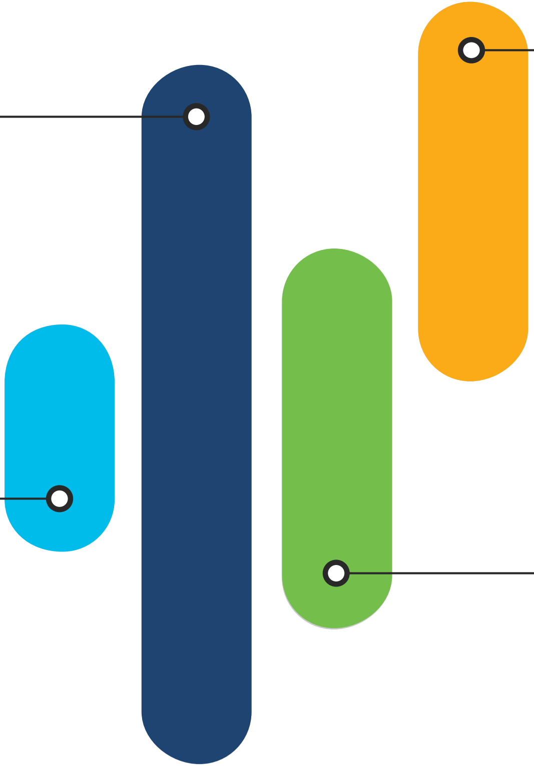
Correlated Threat Intelligence

Cisco Umbrella

Secure Internet Gateway

RESTful API Basics

RESTful API Basics



Web Based

HTTP/HTTPS & secured with TLS

Interoperability

Allows for intersystem interoperability

Payload

JSON, HTML & XML

HTTP Methods

GET, POST, DELETE etc.

RESTful Authentication & Endpoints

Authentication

- No authentication
- Basic & API Keys
- OAuth & Bearer Token

Endpoint

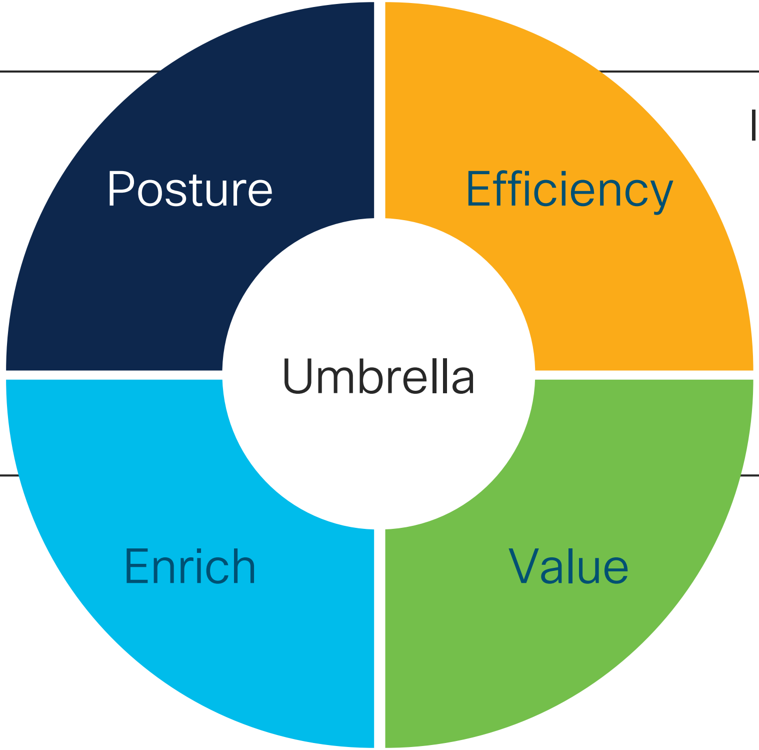
- Endpoint one end of the communication channel (server)
- APIs have multiple endpoints to serve different tasks

Why Integrate & Getting Started

Why Integrate

Increased Security Posture

Improved Organizational Efficiency



Enrich Integrated Applications

Increases Umbrella’s Value & Impact

Plug-in Play Integrations

Cisco Threat Response - CTR

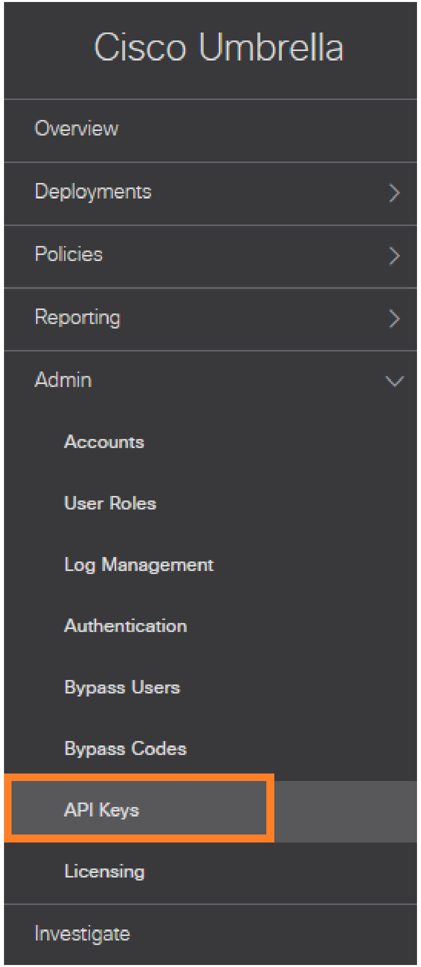
- Integrates Umbrella, Threatgrid & AMP4E
- FREE investigative tool!

Apps for 3rd party tools

- Splunk Add-on: Cisco Umbrella & Umbrella Investigate
- IBM Resilient App: Cisco Umbrella & Umbrella Investigate
- IBM Qradar in development

Getting Started

- Create API keys via Umbrella Dashboard
- Generate Base64 of key and secret
- Get Postman a test client
- Download & import sample collections
  - https://github.com/CiscoDevNet/cloud-security



cisco Live!

Use Cases & APIs

Threat Use cases & APIs

- Threat hunting research – WHOIS, Record history categorization
- Enrich applications and reports
- Global DNS stats & top domains
- Blacklist domains from your application/service/platform
- Umbrella APIs
  - Investigate API (Add-on)
  - Enforcement API

Management Use Cases & APIs

- Onboard new locations/customers/sub divisions
  - Manage Networks, Roaming Computers, Internal Networks & domains, Virtual Appliances, Sites, Users & Roles
- Manage Umbrella network devices from 3rd party APP
- Umbrella APIs
  - Management API
  - Network Devices Management API
  - Legacy Network Devices API

Reporting Use Cases

- Pull security activity into SOC ticketing system
- Graph total request as well as blocked for customers
- Graph out active & inactive identities
- Umbrella APIs
  - Reporting API
  - Console Reporting API

Demo Use Cases

Summary & Q&A

What did we learn?

Increased Efficiency	Integrating with APIs increase organizational efficiency
Use cases & APIs	APIs targeted at specific use case
Easy & Fun	Postman, Github Examples
Examples	Enforcement API & Investigate API

Complete your online session survey

- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on ciscolive.com/emea.

Cisco Live sessions will be available for viewing on demand after the event at ciscolive.com.

Continue your education

Demos in the Cisco Showcase

Walk-In Labs

Meet the Engineer 1:1 meetings

Related sessions

Thank you

You make **possible**