



A Simplified ISE UI

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A Simplified ISE UI

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Cisco Webex App

Questions?

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

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click "Join the Discussion"
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated until February 24, 2023.





Agenda

- Start with the "why?"
- Quick demo
- The "how?"
- · Frontend vs. backend
- Conclusion

Start with the "why?"



One Cisco ISE, many use-cases

Device Secure Asset Visibility **Guest Access** Administration Access Compliance Cisco & Posture SD-Access Threat Context Segmentation **BYOD** Containment Exchange



One Cisco ISE, different users

The Engineer

The (part-time) Student

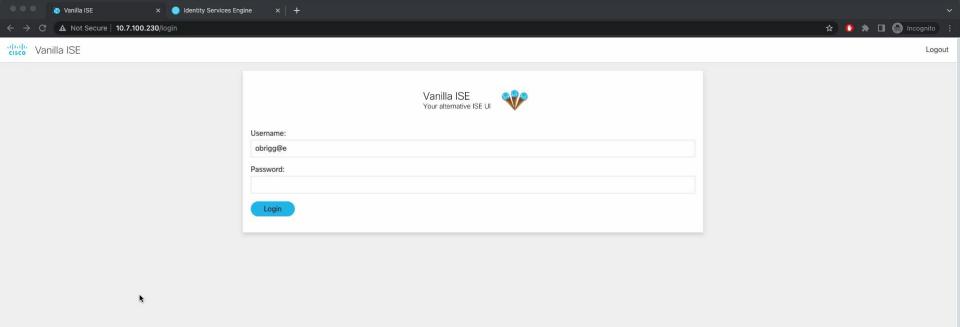


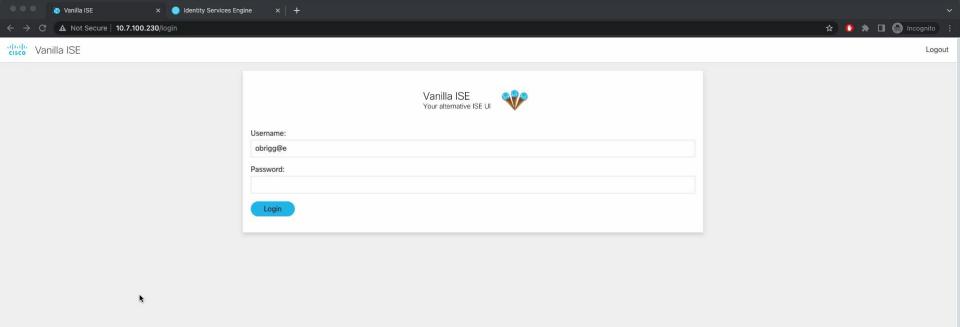


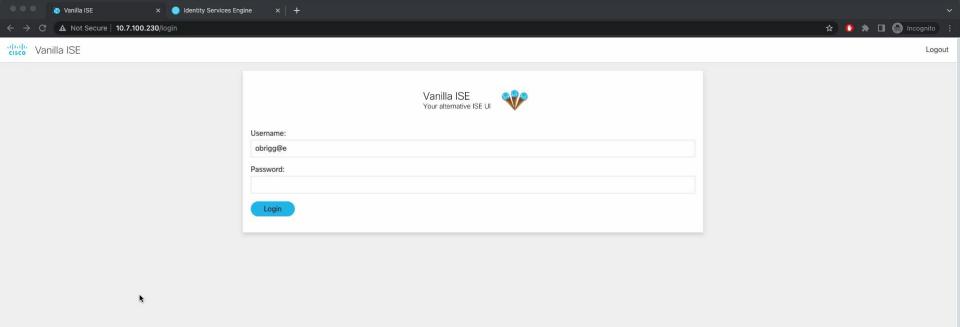


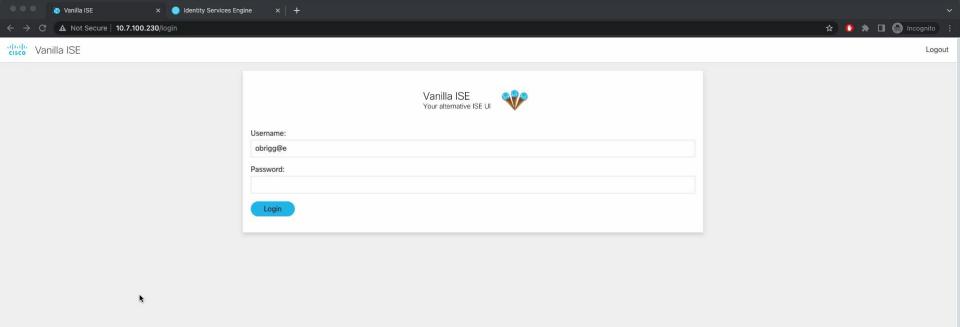
Demo time!

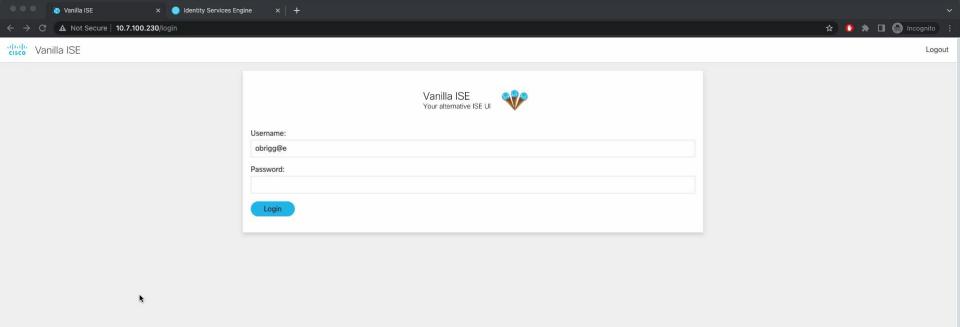


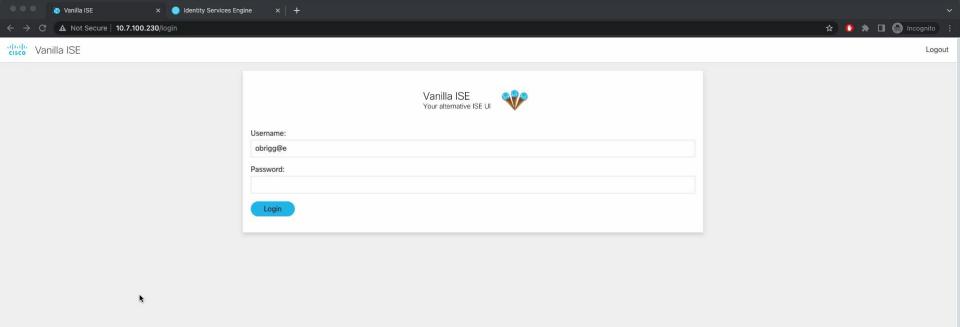


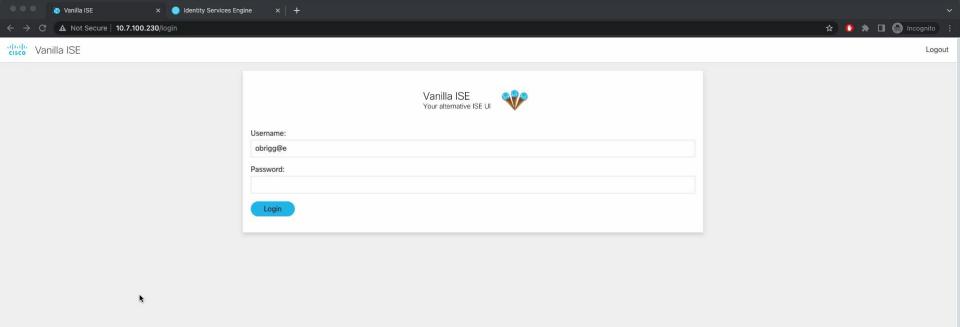


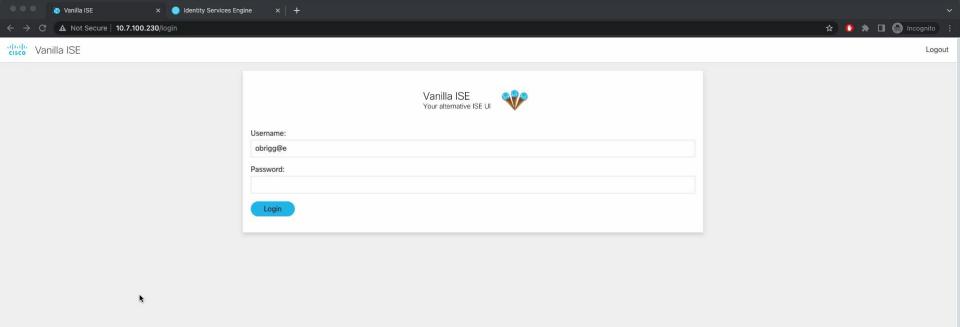












And now, the "how?"



How did we do it?

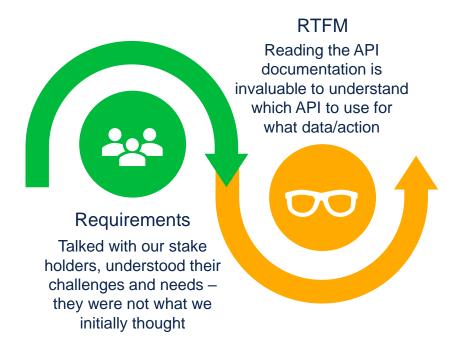


Requirements

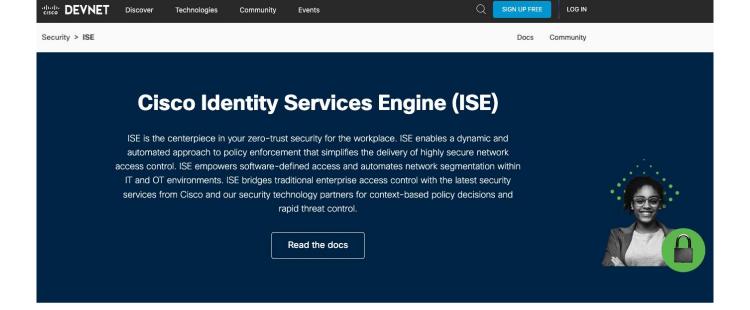
Talked with our stake holders, understood their challenges and needs – they were not what we initially thought



How did we do it?







What can you do with Identity Services Engine APIs?







Documentation > Cisco Identity Services Engine API Reference Guide, v1



Note: The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Introduction

Cisco Identity Services Engine (ISE) is a security policy management platform that provides secure access to network resources. Cisco ISE allows enterprises to gather real-time contextual information from networks, users, and devices. An administrator can then use this information to make proactive governance decisions by creating access control policies for the various network elements, including access switches, Cisco Wireless Controllers, Virtual Private Network (VPN) gateways, and data center switches. Cisco ISE acts as the policy manager in the Cisco TrustSec solution and supports TrustSec software-defined segmentation.

Cisco ISE is available on Secure Network Server appliances with different performance characterizations, and also as software that can be run on a virtual machine (VM). Note that you can add more appliances to a deployment for better performance.

Cisco ISE has a scalable architecture that supports standalone and distributed deployments, but with centralized configuration and management. It also enables the configuration and management of distinct personas and services, thereby giving you the ability to create and apply services where needed, in a network, but operate the Cisco ISE deployment as a complete and coordinated system.

Use Cases

A Cisco ISE administrator can gather real-time contextual data for a network, including users and user groups (who?), device type (what?), access time (when?), access location (where?), access type (wired, wireless, or VPN) (how?), and network threats and vulnerabilities.

For more information about the features that are supported by Cisco ISE, see the Cisco Identity Services Engine Administrator Guide.

To access documentation on cisco.com, go to End-User Documentation.



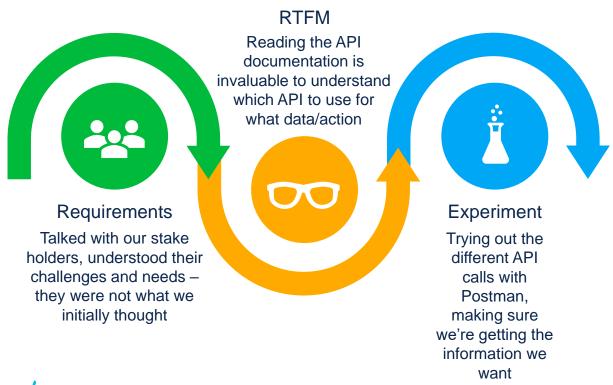
Relevant CLEUR Sessions:

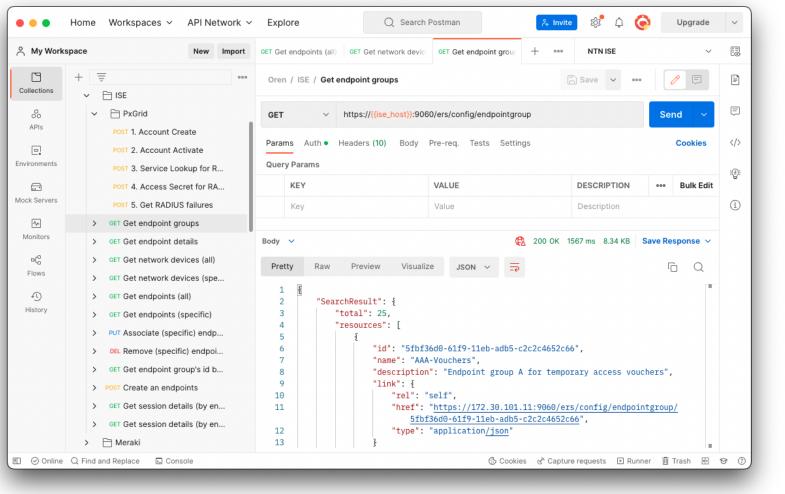
- Intro to Python DEVWKS-1175/6
- Intro to REST APIs DEVWKS-1185
- Infrastructure as Code Tools to automated ISE deployment - DEVLIT-1428



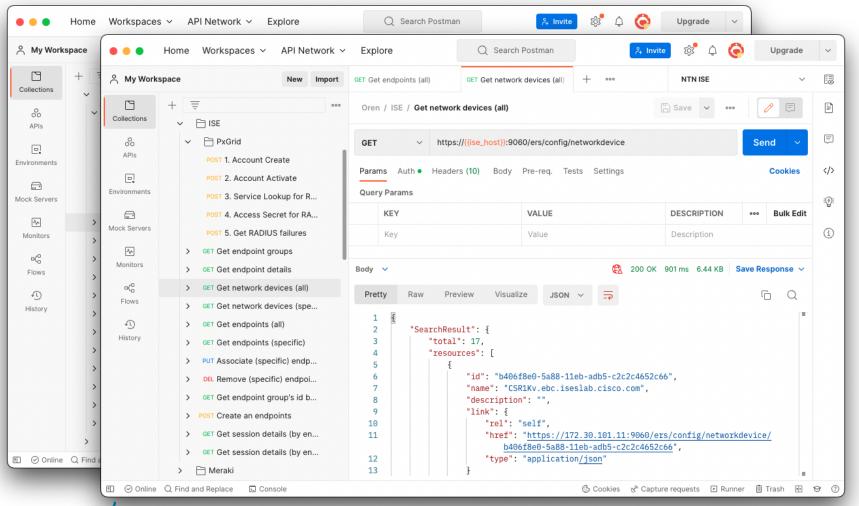


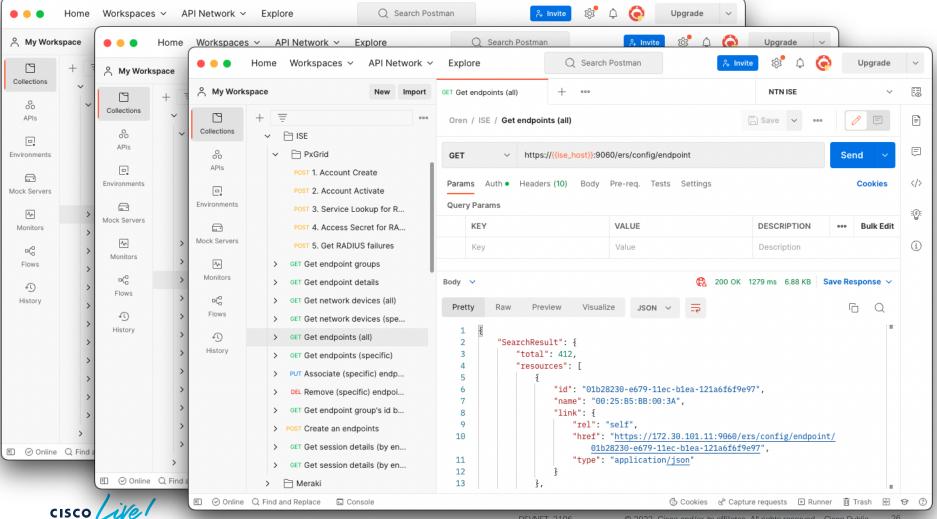
How did we do it?



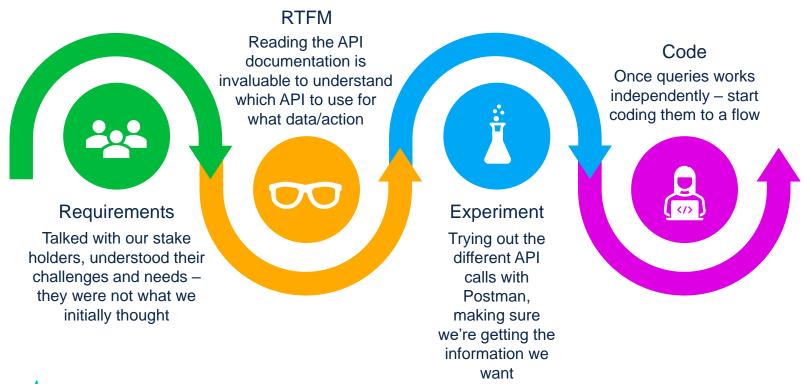








How did we do it?





Frontend vs. Backend





Frontend vs. Backend



Ramona Renner Technical Solutions Specialist (and CSS/HTML5 wizard)



Oren Brigg A man on a mission (And Python knowledge from DevNet)

Relevant CLEUR Sessions:

 Cisco Community: The Developer Connection... The Coders, the Dreamers, and Me - DEVLIT-2791





Vanilla ISE Architecture







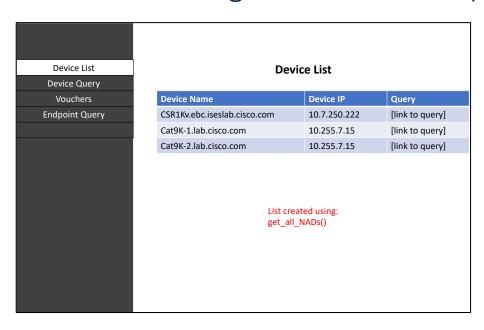






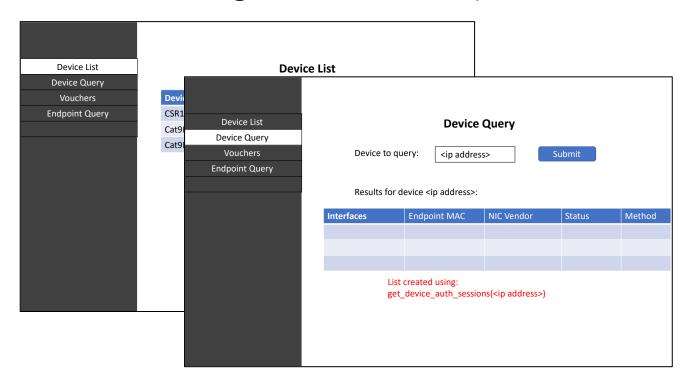


Collaborating with Mock-ups



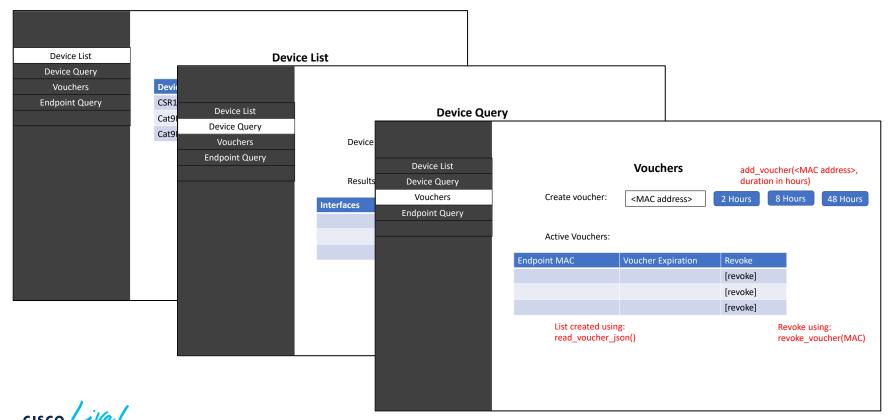


Collaborating with Mock-ups





Collaborating with Mock-ups





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Conclusion

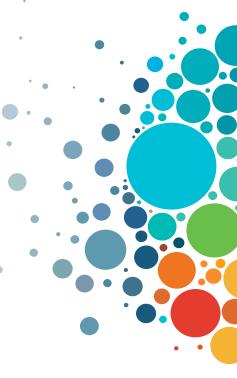
- You don't need to settle for off-the-shelf solutions
- You can tailor you own workflows
- Don't reinvent the wheel check the DevNet Code Exchange first!
- You're not alone join Cisco's communities



Complete your Session Survey

- Please complete your session survey after each session. Your feedback is important.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at

https://www.ciscolive.com/emea/learn/sessions/session-catalog.html





Thank you



cisco live!





Links, resources and references

- Vanilla ISE @ DevNet Code Exchange
- ISE Resources @ DevNet
- pyATS @ DevNet
- Cisco Ul Kit
- Flask Documentation

