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Complete Visibility into Your Cyber Asset Universe

With Cisco Secure Cloud Insights

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Cisco Webex App

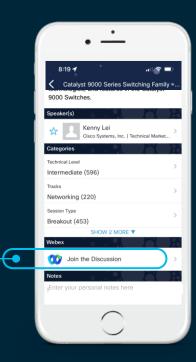
Questions?

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Agenda

- Challenges with modern architectures
- Introduction to Secure Cloud Insights
- How it works
- Short Demo
- Continue to engage

Challenges with Modern Architectures



Do you have all the answers?



- ❖ Normalized and unified view of all your cyber assets?
- Structural awareness to augment the situational awareness of your detection and response tools?
- Security posture and access entitlements of and between your assets?
- * Real-time vulnerabilities and gaps in your attack surface?
- Can you quickly understand the full scope and impact of an attack?
- Always on compliance against industry standards and security frameworks?
- Can you catch **misconfigurations**, the most common cause of breaches?

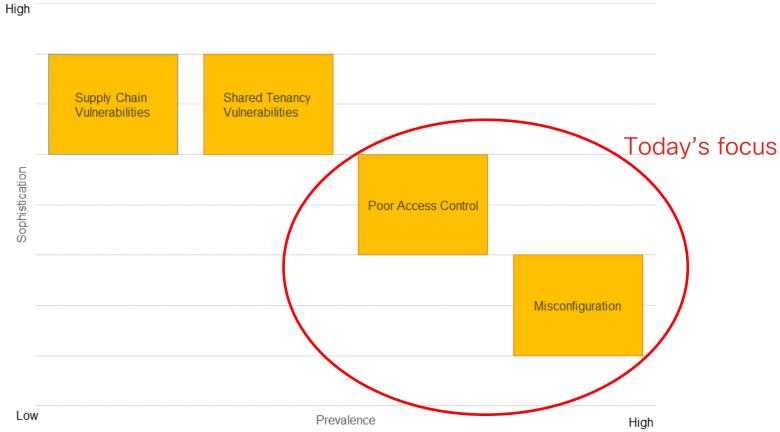
Question 1:

In your experience, what is the #1 obstacle in the journey to the cloud?

- 1. No control on DevOps (software development, cloud architecture)
- 2. Risk of misconfigurations, and loss of visibility and context
- 3. Lack of insight into risks and vulnerabilities in the cloud environment
- 4. Regulatory obstacles, or inability to put data in the cloud
- 5. Other



NSA: Misconfigurations & Access Control most Prevalent Cloud Vulnerabilities





Introducing Secure Cloud Insights



Cisco Secure Cloud Insights with JupiterOne

Cyber Asset Attack Surface Management (CAASM)



Automated Unified Asset Inventory

- Automatic discovery and normalization of cyber assets, objects, and artifacts
- Full context including configuration, access rules, and policies
- Agentless SaaS service with hybrid-cloud and premises coverage



Continuous Compliance & Posture

- Always-on audit against custom and regulatory benchmarks and standards
- Continuous checks allow constant awareness and alerting
- Evidence collection and tracking automated for audit purposes



Attack Surface Visualization

- Leverages graph database technology to build intricate relationship maps
- Identify the blast radius who and what else could be affected
- Identify the root cause how did the attacker access this resource?



The Journey to Complete Cyber Governance

Complete Cyber Compliance Governance Agentless and Governance Lightweight compliance Move beyond compliance with extensible solution with automated continuous governance - where you evidence collection and API based extensible and set the policies, automate monitoring, reporting automated security that reporting and enforcement to reduce continuously changes as your risk needs change Incident Response & Actionability

Visibility Cloud Security Posture Mgmt

Understand all assets that operate in and out of the cloud and their posture and risk: users and access control, data, applications, and services.

Federated data collection & relationship analysis allows you to ask complex questions to better understand your entire digital environment



Start

Full inventory of your

entire cyber asset

universe

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Key use cases

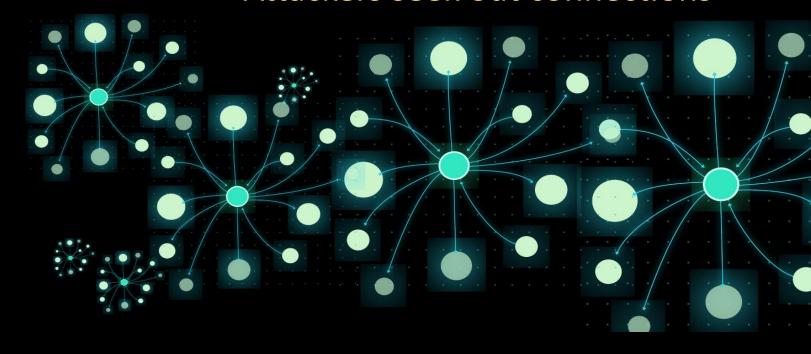


Hybrid cloud visibility	Natively integrate with multiple infrastructures in the public and private cloud as well as on-premises to get a unified view of the entire workload framework
Relationship mapping	Automatically map and visualize relationships between entities
Cloud Security Posture Management	Visualize and Monitor security posture of AWS, Azure and GCP environments, and easily track evidence to get complaint
Attack Surface Management	Contextualize every entity and track its interactions across multiple degrees of separation to achieve internal and external view of the real attack surface
Continuous compliance	Track compliance against 20+ pre-built compliance standards, as well as create custom standards to reduce rik
Fast-track investigations	Quickly get to incident root cause and blast radius to reduce time to investigate and respond
Cyber governance	Achieve cyber governance by remaining up to date with the risk of vulnerabilities and any security policy violations



Defenders work with lists,

Attackers seek out connections



That is probably why attackers win so often

How it Works



Secure Cloud Insights High level Architecture



Agentless Data Ingest

Seamlessly integrate with data sources in the cloud or on-prem natively through APIs

multiple data sources. Correlate and map asset relations across multiple data sources



Structural Awareness

Discover assets and entities across



Investigate and Query

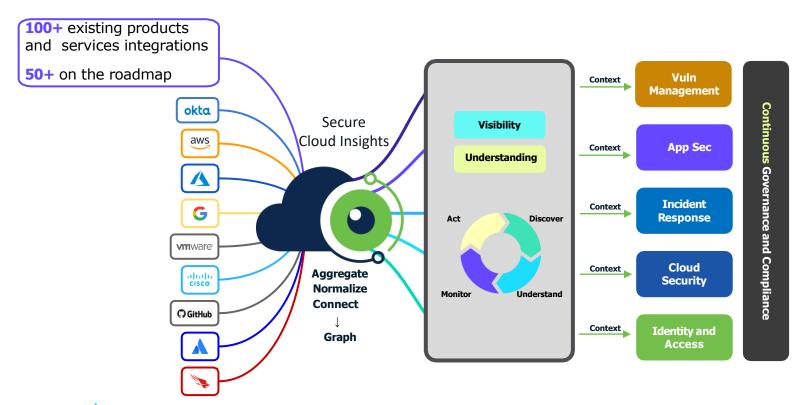
Natural language driven query engine with a simple, powerful query syntax

Continuous Compliance Checks Attack Surface Visualization





Ingest, Normalize, Graph, Contextualize -> Insights





Solve complex problems with simple queries

Continuous compliance monitoring



600+ pre-defined queries, and custom queries available

Convert any query to an alert, or add it to a compliance framework



Are any cloud storage buckets unencrypted?



Which storage does not have logging enabled?



What are the production instances?



Are internet facing compute instances accessing non-public storage?



Are there cross-account IAM trust relationships to external / vendor accounts?



Which PRs / developer introduced new vulnerability findings this past week?



Pre-defined Integrations

Cloud Infr

Amazon AWS Microsoft Azure Google Cloud Hiroku Snowflake Alibaba Cloud

Dev & Code

BitBucket GitHub GitLab NPM JFrog Artifactory

Vulnerability Management

Snyk Bugcrowd Detectify SonarQube **GitLeaks** Tenable HackerOne Threat Stack **NowSecure** Veracode Qualys Vuls.io Rapid7 WhiteHat

NEW!

Aqua Sec Addigy Mimecast Rumble Zoom

People & Access

Google G Suite Cisco Duo Microsoft AD Okta OneLogin JumpCloud

Endpoint

Cisco Sec EP Carbon Black Crowdstrike Malwarebytes Jamf SentinelOne Trend Micro AirWatch Wazuh

Network

Cisco Meraki DigiCert Nmap Whois Shodan

Jira PagerDuty ServiceNow

Workflows

Others

KnowBe4 BambooHR GoDaddy DataDog Splunk

Custom

GraphQL + REST API NodeJS SDK Custom

https://community.askj1.com/kb/categories/8-apis-and-integrations



Question 2:

In addition to AWS, Azure, and GCP, which Clouds would you like to see supported by Cloud Native security Tools?

- 1. SAP Cloud
- 2. Oracle Cloud
- 3. Alibaba Cloud
- 4. IBM Cloud
- 5. Other





Used by Cisco Security & Trust Org to solve key challenges in cloud security posture and attack surface management

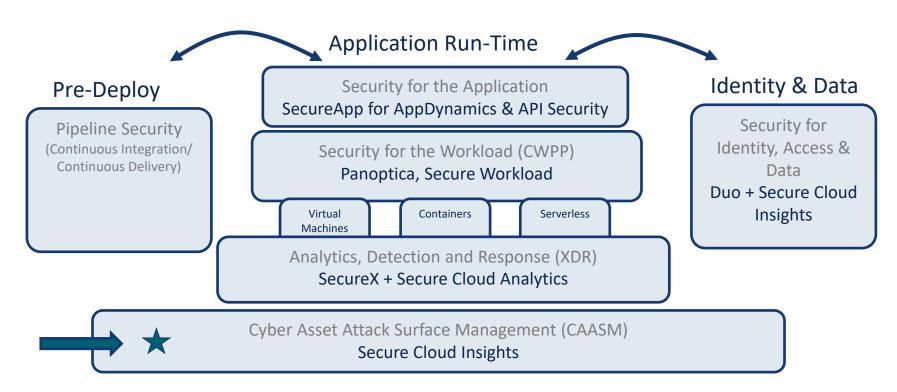
The Deployment:

- ~3,400 AWS accounts
- ~1,500 Google Cloud accounts
- ~ 800 Azure Accounts
- Automatic inclusion for all Cisco accounts in public clouds

Use Cases:

- Security & Policy monitoring
- Easily integrates with existing workflow and reporting needs
- Employee access controls

Cisco's Cloud Native Security Capabilities









Continue to engage



Learn More at cisco.com/go/secure-cloud-insights



Videos: YouTube Playlist



Partner/ Seller Resources: Cisco SalesConnect Site



Free Trial: https://info.securecloudinsights.cisco.com/



Tech Session: BRKSEC-2346: Hanna Jabbour







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- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education. with DevNet, Capture the Flag, and Walk-in Labs
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Thank you



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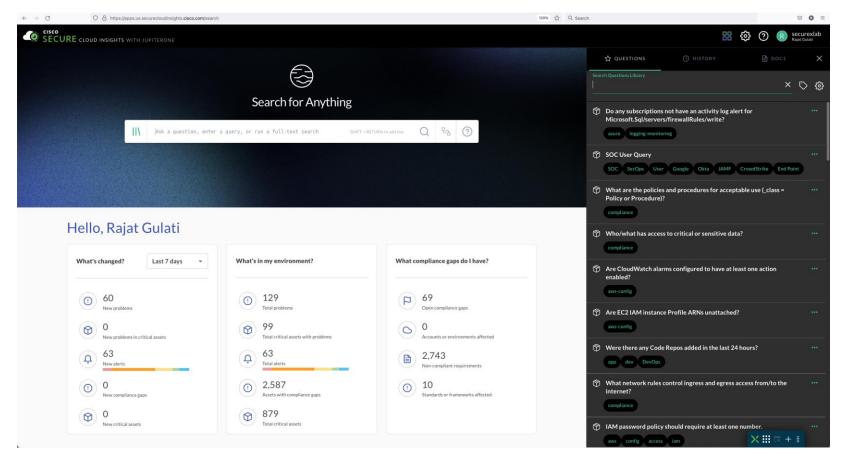




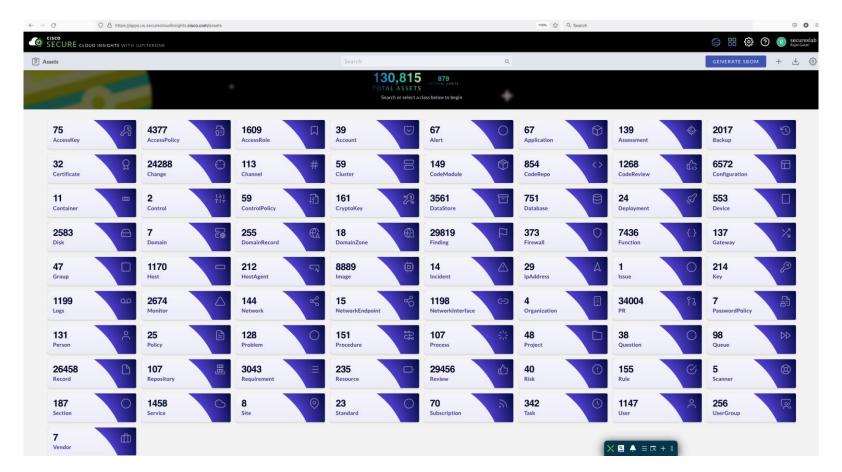
Backup Slides (if demo fails)



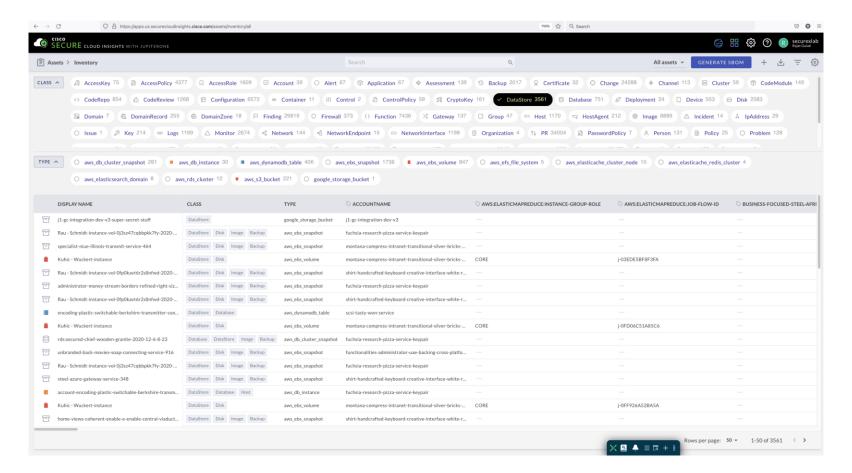
Search Page and Statistics



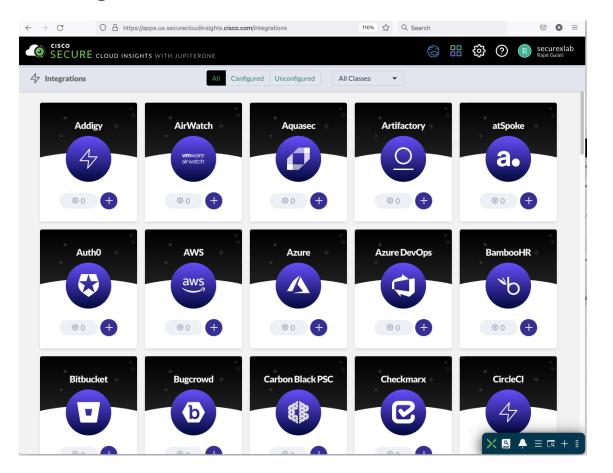
Asset Inventory



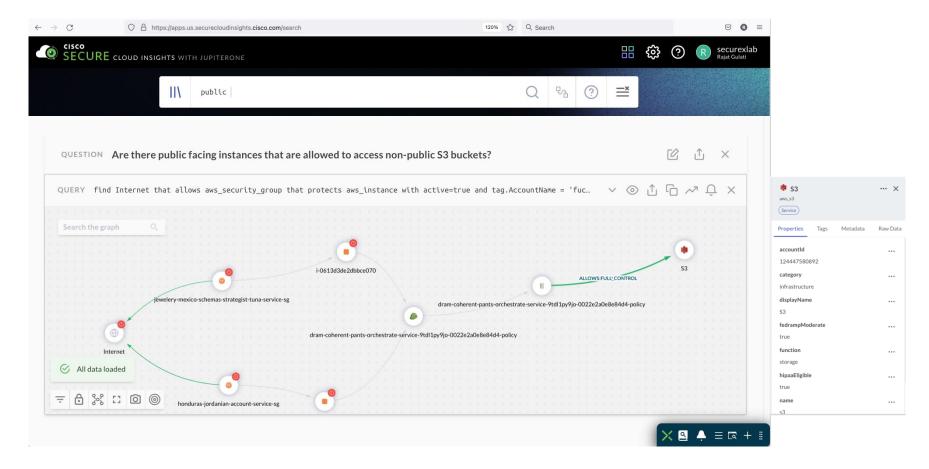
Asset Lists



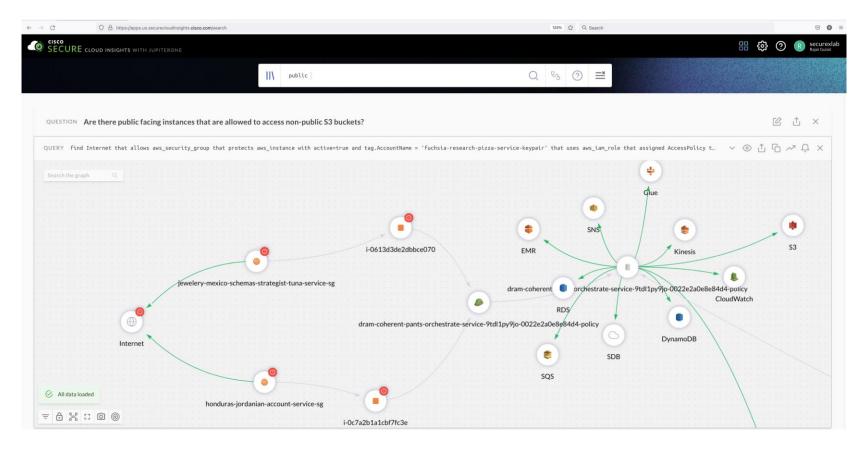
Integrations Page



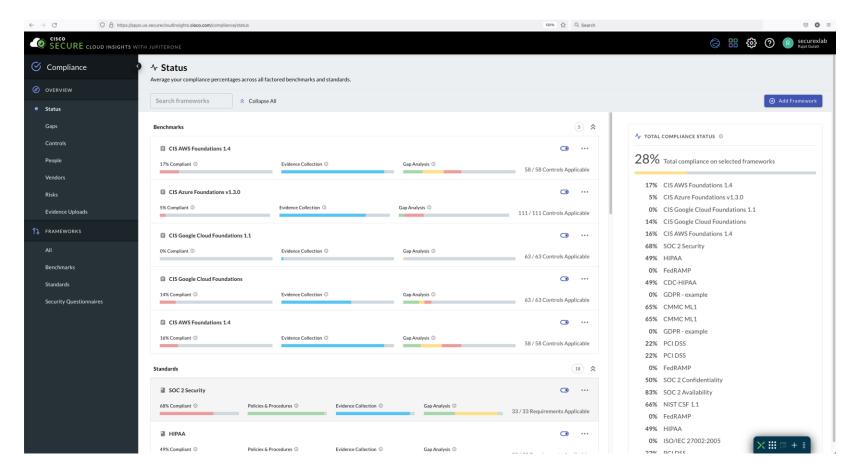
Relationship Maps



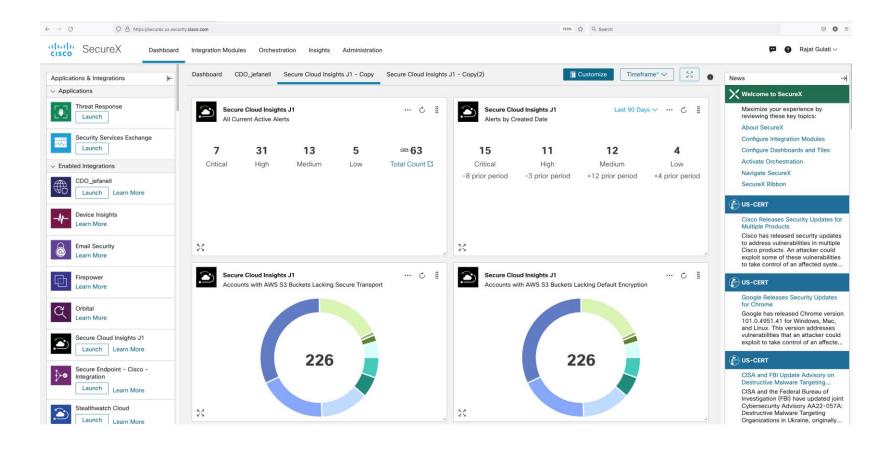
Dynamic build-out of graph



Compliance Status Page



SecureX Integration via Tiles, Ribbon and Posts



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