

Strengthening Detection & Response with Censys

A discussion on empower security teams to enhance visibility, reduce response times, and fortify their security operations with Shunta Sharod Sanders, Global Federal Lead; Pre-sales Engineer at Censys

Agenda

- Problems facing Cybersecurity teams today
- 2 What's the Answer?
- 3 Introduction to Attack Surface Management
- 4 Utilizing Censys ASM



Current Cybersecurity Landscape Problems



Exploits



Threat Actors

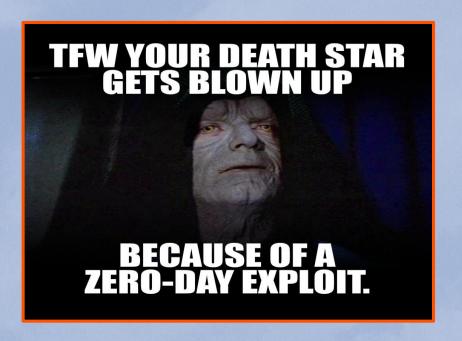


Budget Restraints





Zero Days



Easy Credential Leaks

"New Zero-Day Vulnerability in Windows Themes
Threatens NTLM Security"

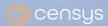
Unspecified Third-Party Bugs

"CISA Adds ScienceLogic SL1 Vulnerability to Exploited Catalog After Active Zero-Day Attack"

Malicious Code Attacks

FortiGate admins report active exploitation 0-day.

Vendor isn't talking.



Shadow IT





COST

Shadow IT precludes the benefits of volume, potentially costing the total business more in resources, time



RISK

Unskilled individuals engaging in shadow IT might not have the expertise needed to properly configure & secure resources



INCONSISTENCY

Different
departments
implement
shadow IT
differently,
leading to
inconsistencies in
resource
procurement,
configuration and



CONTROL

IT teams cannot see shadow IT resources, whic means they cannot manage, organize, control, or support them

Cybersecurity Tool Sprawl



"We tend to continue to plug holes as we find weaknesses, and what we end up with is quite a bit of overlap," - CIO at a nonprofit

"Because these tools are very sophisticated and each of them are covering a separate aspect of the cybersecurity landscape, I think the biggest risk is to not understand if they're configured correctly to protect the organization in an efficient matter," - a cofounder and CTO at a data security solutions company

"There's a lot of risk just because tools usually touch data," - a field CISO at a cybersecurity company

What's the Answer?

- **Assessments:** Assess current environment, resources, and solutions.
- **Collaboration:** Breakdown stovepipes within the organization foster communication.
- **Frameworks:** Implement industry best practices, frameworks, and best of breed solutions.







ASM: What is it, and how does it fit in my security stack?

ASM comprises six major elements that facilitate ongoing discovery through extensive data source and risk scoring

- Asset Discovery
- 2. Unified Global Inventory
- 3. Cloud Governance
- 4. Risk Detection and Remediation
- 5. Post-Announcement M&A Risk Assessment
- 6. Subsidiary Risk Assessment



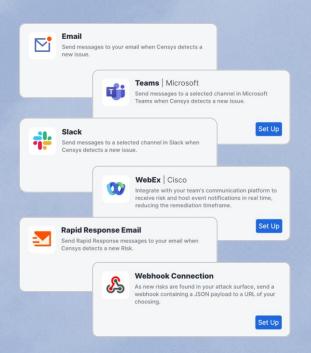
Responding to Cyber Security Risk Threat: A Step-by-Step Guide Using Censys ASM

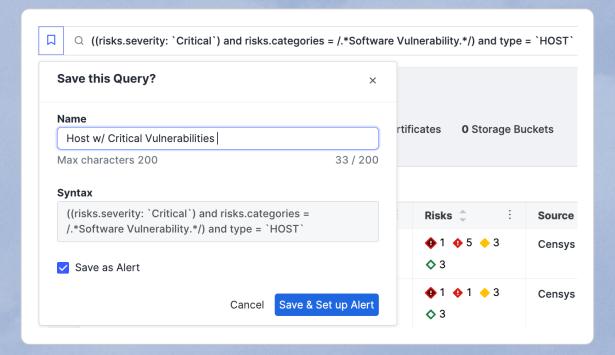
Threat Vulnerability Mitigation Reporting Investigation Prioritization Receive an Scan the Investigate Prioritize Coordinate the Generate a immediate alert organization's potentially vulnerable patching or comprehensive environment vulnerable assets based isolation of about a report on using Censys identified vulnerability or systems using on factors like exposed exploit advisory. ASM to identify detailed asset criticality, systems to threats and information exposed VPN location, and reduce risk. mitigation from Censys actions for key servers. exposure. stakeholders. ASM.



Step I - Identify the Risk (Alerts & Notifications)

ALERTING INTEGRATIONS





Step II - Analyzing the Risk

RISK DETAILS

Risk ID 387

IP Address 34.121.235.0

Port 5432

Service POSTGRES

Transport TCP

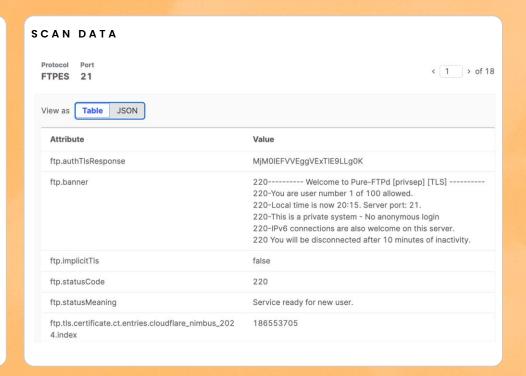
URI postgres://34.121.235.0:5432

First Seen FEB 24, 2022 09:29 AM UTC

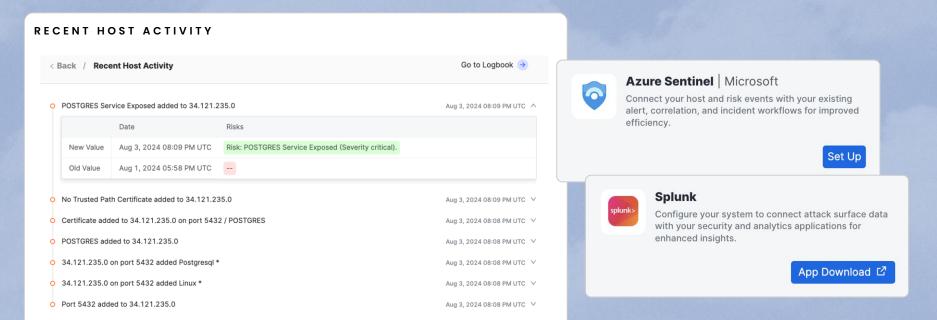
Last Seen SEP 18, 2024 08:35 AM UTC

Categories EXPOSURE

Service or Interface

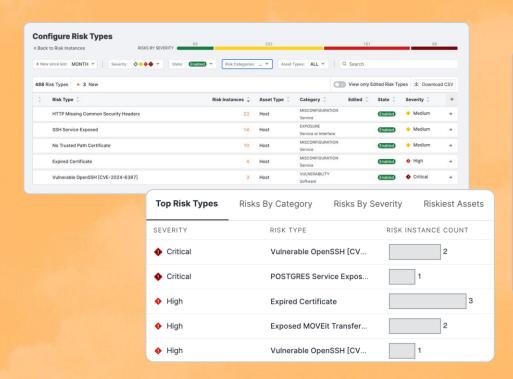


Step II - Analyzing the Risk



Step III - Prioritize Risks

Different Risk Views





Step IV - Treat the Risks

Remediation Recommendations

Primary

Restrict access to this service using firewall rules, VPN segmentation, or VPC segmentation to make it inaccessible from the Internet.

Secondary

Use one-way hashing encryption methods for columns that don't need to be unencrypted, like passwords. Restrict all non-required management ports.

ITSM Platforms



JIRA

Automate the process of creating and updating tickets in Jira based on identified issues in Censys.

Set Up

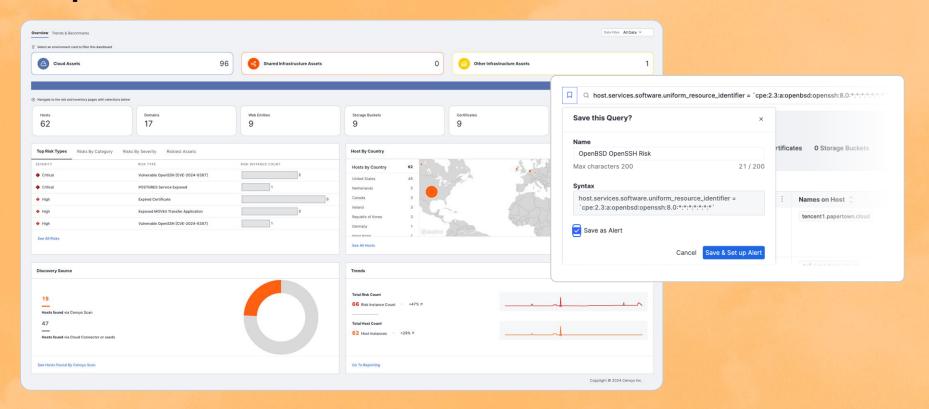


ServiceNow ITSM

Automate the process of creating and updating tickets in ServiceNow based on identified issues in Censys.

Set Up

Step V - Monitor the Risks



Benefits of an ASM

Cybersecurity professionals employ a blend of solutions to protect their organizations. The most common solutions used are Vulnerability Management, Cloud Security Posture Management (CSPM), Cloud Access Security Broker (CASB), and Attack Surface Management.

35% of attacks are carried out through software vulnerability exploits.

33% through supply chain and third-party breaches 32% through web application exploits



"The first thing that comes to mind when I hear Attack Surface Management is a comprehensive solution that analyzes existing vulnerabilities and enables mitigation efforts."

- CISO, HEALTH CARE



Thank You

Connect with us at www.censys.com