



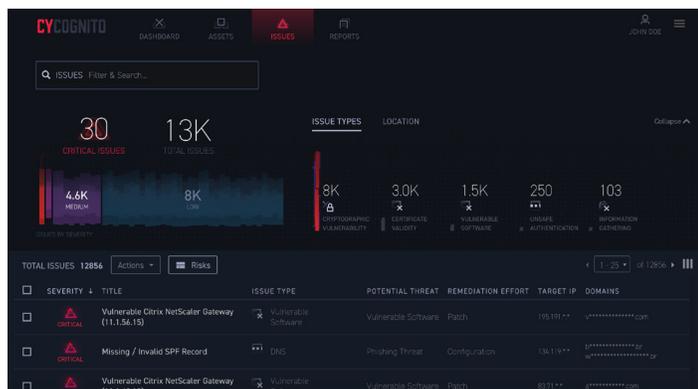
## Testing CyCognito

In our testing, CyCognito was able to discover an organization's physical infrastructure including its IoT devices, cloud-based infrastructure, third party assets and several virtual servers that had apparently been abandoned years ago. The engine then grouped those assets into a dashboard that is accessible by the organization deploying the service.

Once it finds those assets, the platform probes them in much the same way that a penetration tester or a skilled hacker would. It moves slowly and doesn't trigger any alarms from embedded security. The platform employs its 60,000-unit bot network for those tasks.

In our testing, the CyCognito platform not only located thousands of vulnerabilities, but also things like application misconfigurations, weak encryption, assets providing information that could be used in phishing attacks, and critical assets with poor authentication security.

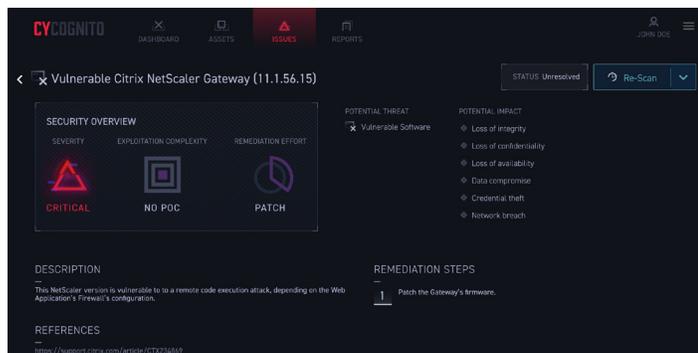
Armed with that information, CyCognito began sorting the thousands of pieces of raw data into useful alerts. For example, alerts were scored based on the amount of real damage that could be done if someone exploited them.



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Instead of just grouping threats by severity, CyCognito examines every vulnerability in terms of the real harm it could do to an existing network. Only then are they prioritized for users.

The alert score could also be elevated if an exploit were relatively easy to perform over one that required a lot of time and effort from a hacker. CyCognito even prioritized easy fixes ahead of those that would take up a lot of an IT team's time. If there is a critical vulnerability that can be fixed by installing a readily available patch, CyCognito suggests that it be done first before moving on to more complex tasks.



John Breeden II/IDG

Problems found by CyCognito are grouped based on severity, how difficult they are to exploit, how much of a danger they would be to a network, and how easy they are to fix. Here a critical problem can be fixed by a simple patch, so it moves to the top of the to-do list.

Once a vulnerability is fixed, users can trigger CyCognito to immediately rescan that asset from their management console. Or, they can simply wait and let the continuous monitoring nature of the program figure that out.

The dashboard is quite nice, though it is clearly designed to speak to IT teams. To relay network problems and vulnerability-fixing activities to management, you can generate PDF reports that are well-written and graphical. The reports give an overview of network health and the kinds (and number) of vulnerabilities that still exist. Subsequent reports can show how well efforts to secure the entire enterprise are going, and do so in a way that is easy to understand by non-technical people.

## Executive Summary

1. CyCognito's automatic Platform scanned [Organization]'s Attack Surface from an attacker's point of view, starting from [Main organization domain]. It identified **7,724** assets highly likely to be owned by or related to [Organization], which can be discovered by external attackers.
2. In these assets, **1,059** security issues were found, and **3** of the assets (network components) were found to be at critical risk, mainly due to unsafe authentication mechanisms.

Note: [Organization]'s initial security scan and assessment under this Summary Report were performed focusing on specific key assets using basic features only.

## Conclusions:

**3 assets** constitute a significant security risk, mainly due to unsafe authentication mechanisms.

**108 Authentication vulnerabilities** allow attackers to exploit authentication mechanisms of various [Organization] applications.

**91 Software vulnerabilities** allow attackers to exploit old and vulnerable IIS servers, Apache HTTP servers and PHP frameworks.

**784 Encryption vulnerabilities** allow attackers to read cleartext sensitive data by performing Man-in-the-Middle attacks on encrypted communication in various customer applications and internal services.

## Severity Score:



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Because there is often a disconnect between IT teams and company leaders, the CyCognito platform can generate extremely well-written reports in PDF format. The reports describe the nature of problems in a way that anyone can understand.

## The last word

The tried and true penetration testing of yesterday has fallen behind modern network infrastructures. But the CyCognito program can help to bring those advantages back in play with its continuous attack surface monitoring. And it can do it with no setup, no humans and no advanced technical knowledge required.