



Case Study

Top 10 Travel Booking Site Discovers Up to 11,000 Exposed Customer Credentials per Hour with SpyCloud

Overview

The online travel booking company profiled is one of the largest in the world, with nearly two million room nights reserved at more than 140,000 global destinations on its online platform every day. With a mission to remove the friction out of travel, the company unites travelers with every type of accommodation available.

Challenge

Preventing account takeover begins with monitoring the dark web, but without the ability to match user accounts with a database of exposed credentials, a top 10 travel booking site was vulnerable to attack.

Solution

The booking company uses the SpyCloud API to continually monitor and protect customer accounts against SpyCloud's massive database of exposed emails and plaintext passwords.

Result

With automated dark web monitoring, the company discovers thousands of exposed customer accounts every hour, enabling the company to better protect their customers from account takeover.

SpyCloud

Challenge: Preventing Account Takeover After a Breach

Account takeover (ATO) is a growing problem that impacts virtually every industry, particularly those organizations with an e-commerce capability. When cyber criminals steal usernames and passwords or purchase them from breach data on the dark web, both consumer and company can suffer.

The risk of ATO keeps security leaders up at night. Beyond the financial loss, ATO is often the dreaded aftermath of a security breach and can continue to cause damage for years.

For one of the top 10 travel site's Account Security Group, keeping constant watch over their user accounts is a full-time job that would greatly benefit from automation.

"It has always been our goal to prevent, detect and remediate any account security threat," says a security leader at the online travel company. "We wanted a solution that would enable us to continually evaluate our security stack and if we detect any gaps in our strategy, take immediate action to protect our customers and our brand, starting with ATO prevention."

Solution: Identify Exposed Credentials Early and Rapidly

SpyCloud always has its ear to the ground in the deep and dark web. Through proprietary tools, techniques and technologies, SpyCloud is able to detect corporate breaches earlier than any other company. The earlier exposed credentials are discovered, the more likely a future breach can be prevented.

To prevent a breach, ATO and ongoing fraud from happening, this top 10 travel booking site turned to SpyCloud, recognizing the value of the detailed, real-time, accurate data SpyCloud provides.

They chose to work with SpyCloud to launch a new initiative to automatically detect exposed customer credentials and alert security leaders early in the process, before criminals have the opportunity to take over the account and cause damage.

“ Using the SpyCloud data, we discover anywhere from 3,000 to 11,000 direct matches per hour. Every one of those exposed accounts could have led to account takeover. ”

SpyCloud

The company uses SpyCloud data as part of their account stuffing attack monitoring. For each login attempt to their domains, they initiate an out-of-band SpyCloud check for an account match. They then check match alerts against SpyCloud's recorded spikes in account stuffing attacks to identify any correlations.

"We use SpyCloud to detect the ATO storms – when an attacker targets our system with a list of breached credentials," says the security leader at the company. "The SpyCloud data reveals which accounts are compromised so we can force the account down an alternate road that includes a second step in the verification process. This is typically requiring the account owner to answer security questions or engage in two-step multi-factor authentication."

"Without the SpyCloud data, we would be in constant risk for attacks we never saw coming. We may not be able to stop every breach, but we feel we are being more proactive and have dramatically improved our security stance."

Results: Thousands of Exposed Credentials Discovered Every Hour

One of the unique aspects of SpyCloud is the ability to discover direct matches with emails and passwords. Identifying exposed emails is not enough and doesn't indicate the account has been compromised.

With SpyCloud's proprietary password cracking methodology, more passwords can be cracked, unencrypted and operationalized. In fact, SpyCloud owns the largest database of emails and plaintext passwords, eight billion and counting.

"SpyCloud allows us to see where we are vulnerable in order for us to fortify those potential entry points," says the security leader. "With the SpyCloud database constantly

updated, we can continually monitor our customer base with the freshest, most usable data available. Using the SpyCloud data, we discover anywhere from 3,000 to 11,000 direct matches per hour. Every one of those exposed accounts could have led to account takeover. "

While the SpyCloud solution does include the capability for users to automatically remediate accounts with matches to breach records, typically forcing a password reset, the travel company prefers less friction in the booking process.

"For now, we are using SpyCloud simply for monitoring, but we are aware the solution can do much more," says the security leader. "We are evaluating our options and are considering moving towards being more proactive without compromising our mission. **The fact that SpyCloud is customizable to our needs now but also scalable to where we may go in the future is one of the reasons we chose their solution.**"

SpyCloud

About SpyCloud

SpyCloud transforms recaptured data to protect businesses from cyberattacks. Its products leverage a proprietary engine that collects, curates, enriches and analyzes data from the criminal underground, driving action so enterprises can proactively prevent account takeover and ransomware, and protect their business and consumers from online fraud. Its unique data from breaches, malware-infected devices, and other underground sources also powers many popular dark web monitoring and identity theft protection offerings. SpyCloud customers include half of the ten largest global enterprises, mid-size companies, and government agencies around the world. Headquartered in Austin, TX, SpyCloud is home to over 150 cybersecurity experts who aim to make the internet a safer place.



Enterprise Protection

Prevent account takeover that can lead to ransomware.

[Learn More](#)



Consumer Protection

Combat account takeover and online fraud.

[Learn More](#)



Investigations

Unmask criminals attempting to harm your business.

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Data Partnerships

Enhance your solution with SpyCloud's data.

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