

Account Takeover Attacks and their Signals

https://campus.barracuda.com/doc/89096736/

In Account Takeover (ATO) / Account Compromise attacks, the attacker uses compromised credentials to take over a targeted account, potentially:

- signing into the account
- sending emails from the account
- altering inbox rules for the account
 Inbox rules are only monitored for accounts with paid licenses. Free or student mailbox rules are not monitored.

The compromised credentials can come from password data breaches or from other phishing attacks.

This article provides a general sense of the signals used by Impersonation Protection to detect account takeover attacks. Note that it would be irresponsible to disclose the inner workings of Impersonation Protection.

Impersonation Protection also detects signals to protect you from targeted phishing attacks. See <u>Targeted Attacks and their Signals</u> for details.

Emails Sent

The attacker might send impersonated emails to:

- Compromise more credentials
- Distribute malware beyond the gateway
- $\circ\,$ Commit wire fraud and other social engineering attacks

Impersonation Protection



EMAILS SENT (5) SIGN INS (0)	INBOX RULES (1)		
Date	Recipient	Subject	
Oct 29, 2018 1:33 PM	Shane Barry and 1 other recipient shane@sookasa.onmicrosoft.com	Please DocuSign these documents: Offer Holt-Anderson.pdf	VIEW MESSAGE
Oct 29,2018 1:32 PM	Asaf Cidon and 1 other recipient asaf@sookasa.onmicrosoft.com	Please DocuSign these documents: Offer Holt-Anderson.pdf	VIEW MESSAGE
Oct 29, 2018 1:32 PM	Alexey Tsitkin and 1 other recipient alexey@sookasa.onmicrosoft.com	Please DocuSign these documents: Offer Holt-Anderson.pdf	VIEW MESSAGE
Oct 29,2018 1:31 PM	Itay Bleier and 1 other recipient itay@sookasa.onmicrosoft.com	Please DocuSign these documents: Offer Holt-Anderson.pdf	VIEW MESSAGE
Oct 29, 2018 1:31 PM	Nadia Korshun and 1 other recipient nadia@sookasa.onmicrosoft.com	Please DocuSign these documents: Offer Holt-Anderson.pdf	VIEW MESSAGE
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For more information, see <u>Account Takeover Alerts</u> and <u>Handling an Account Takeover</u>.

Suspicious Sign Ins

The attacker might sign into an account to send emails, change policies, or perform other tasks while logged in as a valid user.

EMAILS SENT (0) SIGN	INS (1) INBOX RULES (0)			
				VIEW RELATED SIGN
Date	IP	User agent	Location	Issue
lul 03, 2019 8:46 AM	45.64.176.254	CBAInProd	Nigeria	Unusual location and application
				Page: 1 🔻 1-1of1 🗸

For more information, see <u>Suspicious Sign Ins</u>.

Inbox Rules

The attacker might change rules to cover their tracks, for example creating rules to route certain incoming emails to their own, separate account.

Impersonation Protection



	SIGN INS (0)	INBOX RUI	.ES (1)					
Date	,	Sequence	Name	Actions	Conditions		Exceptions	Enabled
Jul 02, 2019 6:40 AM		1	Critical security alert for your account	Stop processing rules Delete message			No	Yes
						Page:	1 🔻 1-1of1	<

For more information, see <u>Investigating Inbox Rules</u>.

Impersonation Protection



Figures

- 1. emailSent.png
- 2. signIns.png
- 3. inboxRules.png

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