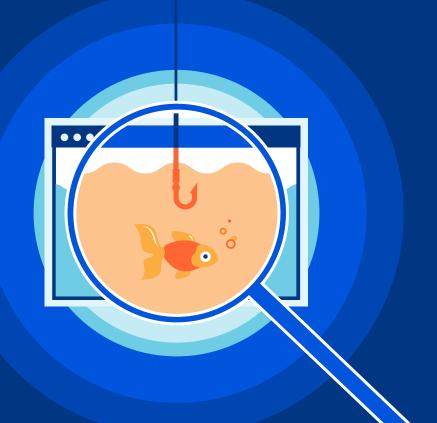


How Cloudflare stopped a targeted attack and you can too



# What Cloudflare employees saw

3:50 ..... 🗢 🗔 +1 (754) 364-6683 > **Text Message** Today 3:49 PM Alert!! Your Cloudflare schedule has been updated, Please tap cloudflare-okta.com to view your changes.

CLOUDFLARE
Sign In
Username
Password
Remember me
Sign In
Need help signing in?



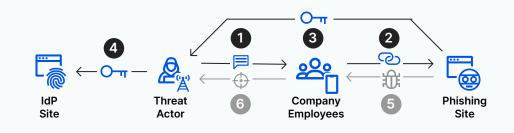
# Threat actor attempted credential harvesting playbook but was unsuccessful gaining full access

[1-2] Targeted text messages

[3-4] Sophisticated real-time phishing

[5-6] Remote access payload





#	What happened
1a	Threat actor sent legitimate-looking malicious SMS 100+ messages sent from four T-Mobile-SIMs
1b	76+ Company employees and family members received SMS on personal & work phones
2a	Message included a legitimate-looking newly registered domain (cloudflare-okta.com)
2b	Clicking link opened a legitimate-looking phishing site (Cloudflare Okta login page) Domain registered via "Porkbun" <40 min before phishing campaign to avoid automated detection
За	Victim's entered credentials were immediately relayed to the threat actor via Telegram
4a	Threat actor enters credentials received into actual identity provider (IdP) login site; sending TOTP codes to victims via SMS or mobile app
3b	Victim enters TOTP code on the phishing site, and it too would be relayed to the threat actor 3 employees reached this step, but did not go further as security keys don't use TOTP
4b	Threat actor enters code in IdP site before it expires: Defeats most 2FA implementations
5	Phishing site initiated download of a phishing payload (may have been due to a misconfigured kit)
6	Once software installs, threat actor controls victims' machine remotely

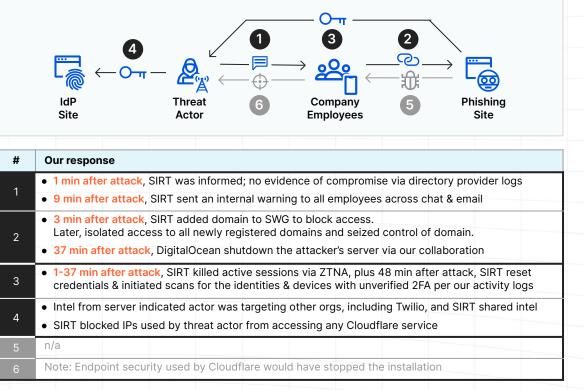
3

# Threat actor attempted credential harvesting playbook but was unsuccessful gaining full access

[1-2] Targeted text messages

[3-4] Sophisticated real-time phishing

[5-6] Remote access payload





# Reinforced the importance of what we're doing well, and everything you can do, too



#### Adopt a phishing-resistant MFA

Not all MFA provides the same level of security



### Implement selective enforcement

with identity- and context-centric policies



## Enforce strong auth everywhere

All users and apps; even legacy non-web systems



## Adopt Zero Trust via one platform

Easier, faster operations & improved security posture

#### 5 Establish paranoid, blame-free culture Report suspicions early and often