

Cloud Credential Compromise Campaign Originating from Russian-Affiliated Infrastructure

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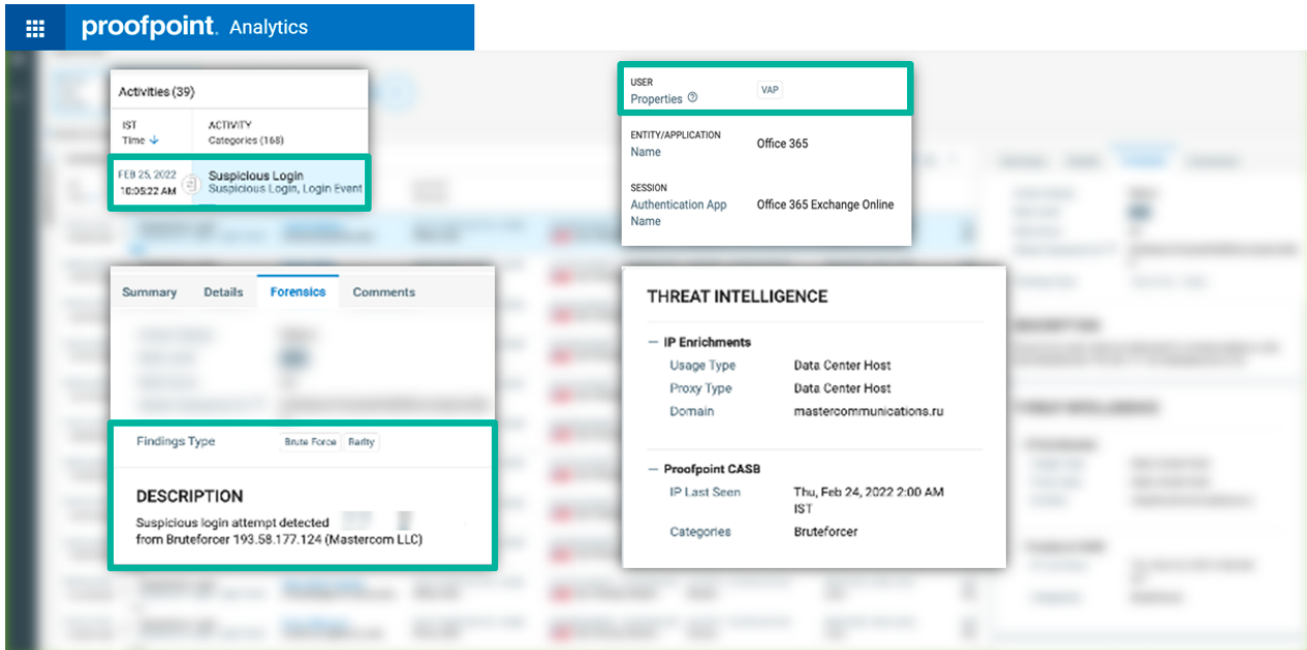
March 03, 2022 Proofpoint Cloud Security Research

Proofpoint Cloud Security group researchers have found widespread cloud credential variance attacks on organizations since February 22, 2022, originating from Russian-affiliated infrastructure. This blog post will explain the very active threat campaign targeting our customers' cloud apps and how to secure your cloud risks.

Attack profile and example attack

As of February 28, 2022, we've observed approximately 78,000 credential variance attacks (i.e. brute force or password spray attempts), targeting 4,340 user accounts across 728 monitored cloud environments. Over 85% of the targeted organizations are US-based, with the remainder operating in other Western countries. The vast majority of attacks either originated from identified Russian sources (IP addresses and DCH services located in Russia) or from servers associated with Russian hosting services, chiefly in the US. In our assessment, unauthorized access could open the door to account takeover, privilege escalation, lateral movement, and data exfiltration.

The screenshot below showcases one of the many attacks we've seen. We detected this threat to the user based on identifying the credential variance attack type, user behavior analytics, and the user being heavily targeted in the past (the user is a Very Attacked Person, or VAP). In this case, the user has never attempted to log in to their organization's Office 365 account using the hostname "mastercommunications.ru" and a data hosting center (DCH) proxy. In fact, our threat intelligence has identified that as typical for this threat actor.



Screenshot: Suspicious login attempts from credential variance attacks detected by Proofpoint CASB viewed on the Information and Cloud Security platform

Targeted industries and other technical analysis

The primary targets have been varied, with no industry accounting for more than 11% of all attacks. The top five most targeted industries account for 44% of all the attacks, including manufacturing, financial services, healthcare, business services, and construction.

CREDENTIAL VARIANCE ATTACKS BY TARGETED INDUSTRY

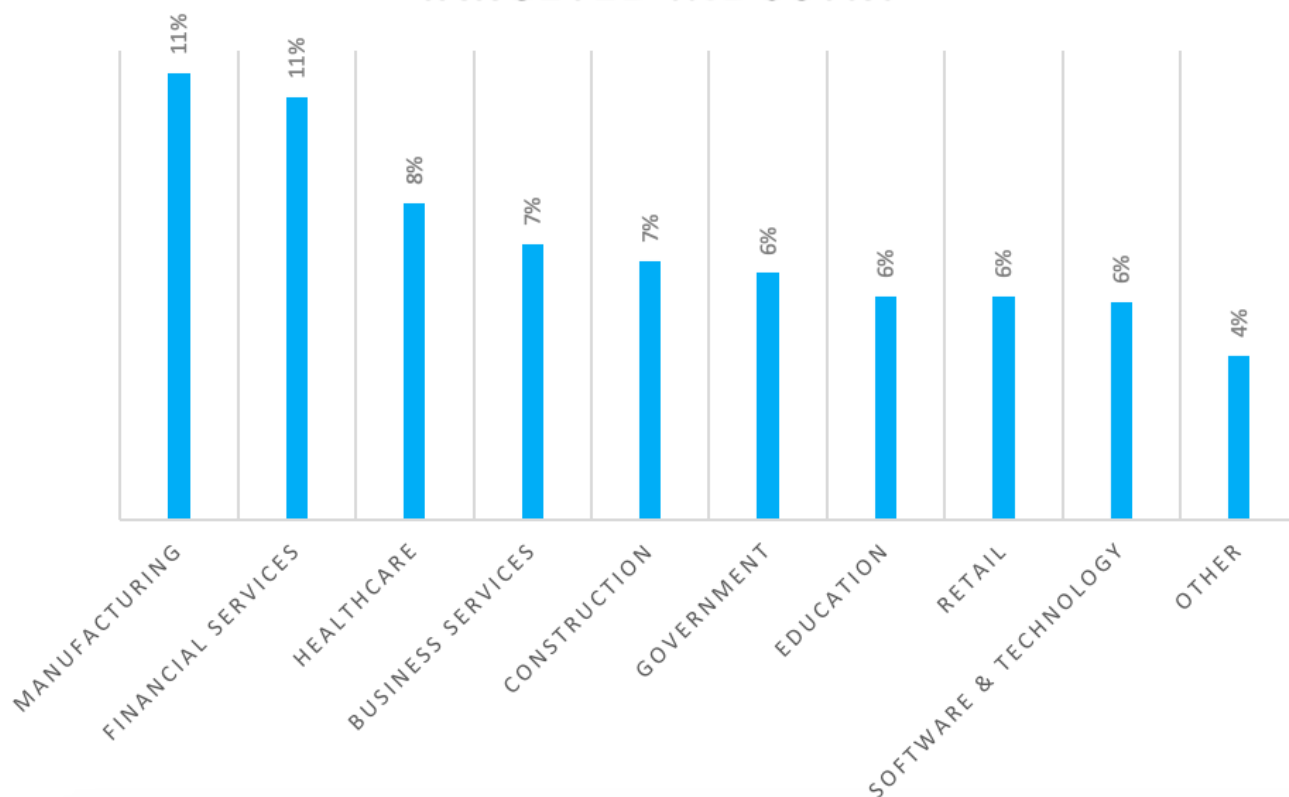


Chart: Proofpoint security research analysis on credential variance attacked by the targeted industry for February 22 – February 28, 2022

A few interesting artifacts of the campaign:

1. An unusual user agent (UA) string – “14 Windows Mobile - Tablet Very common” – amongst the many we’ve seen. We have seen either as a standalone string or appended to the end of a longer UA string. This UA string is unique to this campaign and may be unintentional.
2. The attacks are conducted against users in alphabetic order by username, which may be a trait of the credential variance tool kit used.
3. The malicious targeting attempts are decentralized, with multiple hosting services and operational assets trying to compromise user accounts simultaneously.

Protect your cloud accounts with cloud security best practices

- Treat any traffic from the IOCs listed below as potentially suspicious while this campaign is active.
- Monitor all cloud accounts of your organization for suspicious logins and remediate highly suspicious logins immediately.

- Limit cloud traffic from locations of interest to trusted web infrastructure (IP addresses, ISP hosts).
- Use multi-factor authentication on your cloud services, especially web, customer, or partner-facing applications.
- Set up DLP policies to identify sensitive data exfiltration to unmanaged devices.
- Monitor for suspicious configuration changes to 3rd party OAuth apps, cloud email and cloud servers.

Summarized Indicators of Compromise (IOCs):

| ISP / Proxy Service | Associated Domain | IP Address |
|----------------------------|--------------------------|-------------------|
| Address Management Inc. | clouvider.co.uk | 103.151.103.243 |
| Admin LLC | cadmin.ru | 213.139.193.38 |
| Auction LLC | dauktion.ru | 45.87.124.155 |
| B2 Net Solutions Inc. | servermania.com | 23.229.53.52 |
| | | 23.229.53.63 |
| | | 23.229.67.247 |
| | | 23.229.67.248 |
| | | 23.229.79.18 |
| | | 23.229.79.24 |
| | | 23.229.79.25 |
| | | 23.229.79.28 |
| LIR LLC | lir.am | 103.152.17.248 |

| | | |
|---------------|-------------------------|----------------|
| Mastercom LLC | mastercommunications.ru | 109.94.218.192 |
|---------------|-------------------------|----------------|

193.58.177.124

| | | |
|------------|---------|-------------|
| OVH US LLC | ovh.com | 51.81.45.12 |
|------------|---------|-------------|

51.81.45.128

| | | |
|----------------|-------------|----------------|
| Proline IT Ltd | selectel.ru | 176.53.133.249 |
|----------------|-------------|----------------|

193.160.216.60

193.160.217.66

77.83.4.102

77.83.5.161

| | | |
|------------|-----------|-----------------|
| Qwarta LLC | qwarta.ru | 193.232.144.116 |
|------------|-----------|-----------------|

194.190.112.167

194.190.179.10

194.190.190.64

194.190.90.41

194.190.91.222

194.226.185.120

195.19.209.226

212.193.136.39

212.193.137.253

212.193.140.208

212.193.143.60

62.76.147.174

62.76.153.235

This post will be updated with additional details on observed user agents.

Is your organization protected from cloud credentialing attacks? Learn about [Cloud Account Defense](#).

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