

How to Query for Password Guessing Using the Elastic Stack

Task. Query for password guessing using the Elastic Stack.

Purpose. Adversaries may use brute force techniques to gain access to accounts when passwords are unknown or when password hashes are obtained. The Elastic Stack is a collection of services that allow you to ingest, search, and visual data (i.e., Windows Events). Logon types of interest are: 2 (local), 3 (network; sometimes generated by the “net use” command or RPC activity), and 10 (Terminal Services like Remote Desktop).

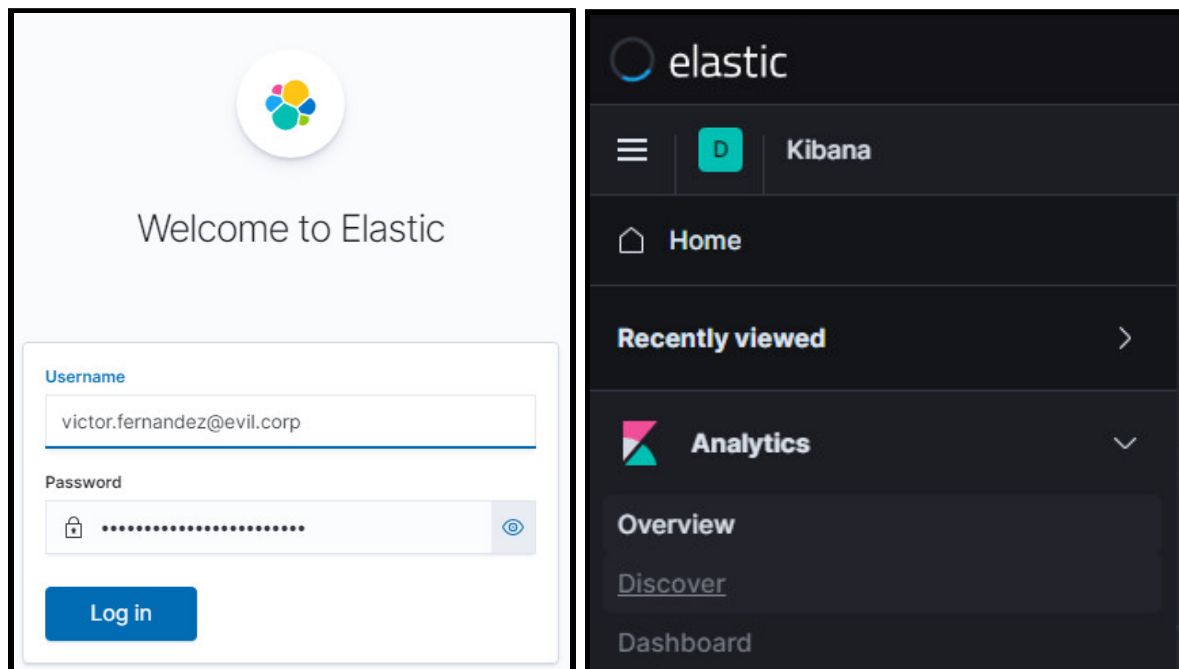
Conditions. Logon/logoff auditing is enabled. Windows Event Forwarding is configured. Winlogbeat is installed on a Windows Event Collector and shipping forwarded Windows Events to an Elastic Stack instance. You have access to said Elastic Stack instance.

Standard. You were able to perform a query and determine if suspicious or malicious activity has occurred.

MITRE ATT&CK

- **Tactic:** Credential Access
- **Technique:** T1110 - Brute Force
- **Sub-Technique:** T1110.001 - Password Guessing

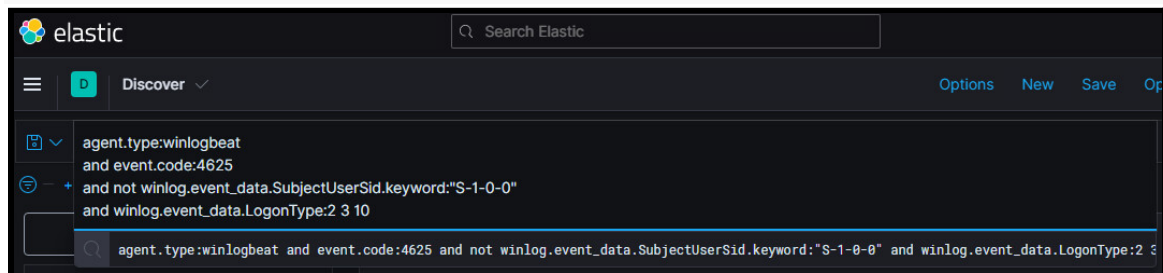
Step 1. Login to your Elastic Stack instance (this How-To uses the “Security Onion” platform). Click the Triple Bar symbol in the top-left corner to open the Navigation Bar. Under the “Analytics” section, click “Discover.”



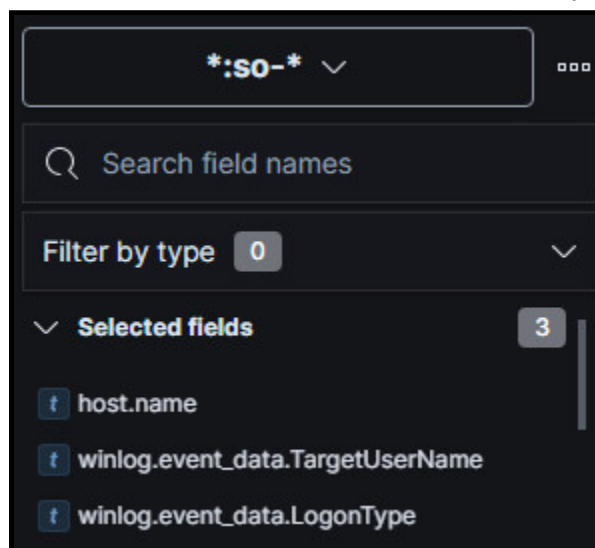
How to Query for Password Guessing Using the Elastic Stack

Step 2. Copy/paste your query into the “Search” bar and click “Update.” Below is one example.

```
agent.type:winlogbeat
and event.code:4625
and not winlog.event_data.SubjectUserSid.keyword:"S-1-0-0"
and winlog.event_data.LogonType:2 3 10
```



Step 3. Using the “Search field names” bar, search for and add the following fields: `host.name`, `winlog.event_data.TargetUserName`, and `winlog.event_data.LogonType`. Collapse the “Search field names” bar to make it easier to review your query result.



Step 4. Review your query result for suspicious and/or malicious activity.

4 hits			
Time	host.name	winlog.event_data.TargetUserName	winlog.event_data.LogonType
> Nov 26, 2021 @ 09:51:17.266	evilcorpwk1.evil.corp	victor.fernandez.sa	2
> Nov 26, 2021 @ 09:50:44.443	evilcorpwk1.evil.corp	elliott.alderson	2
> Nov 26, 2021 @ 09:50:42.166	evilcorpwk1.evil.corp	elliott.alderson	2
> Nov 26, 2021 @ 09:50:39.424	evilcorpwk1.evil.corp	elliott.alderson	2