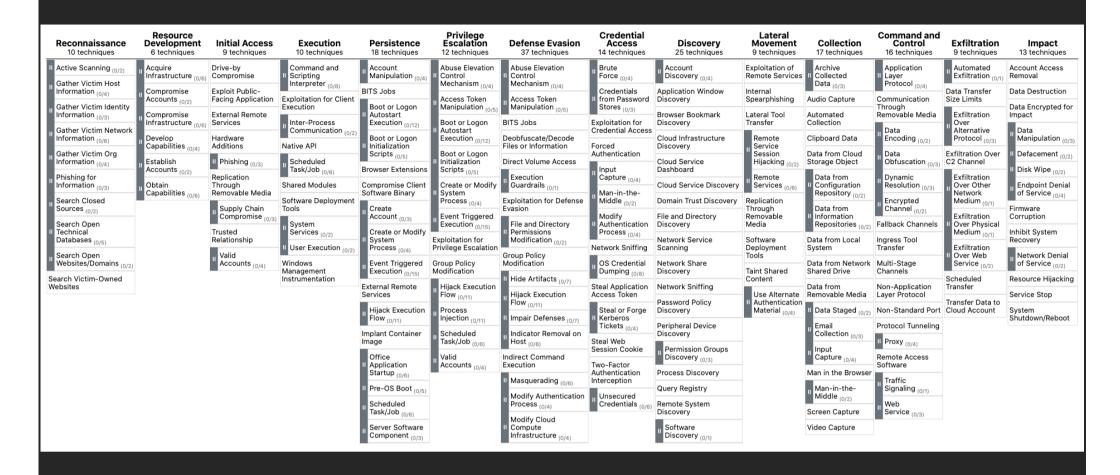
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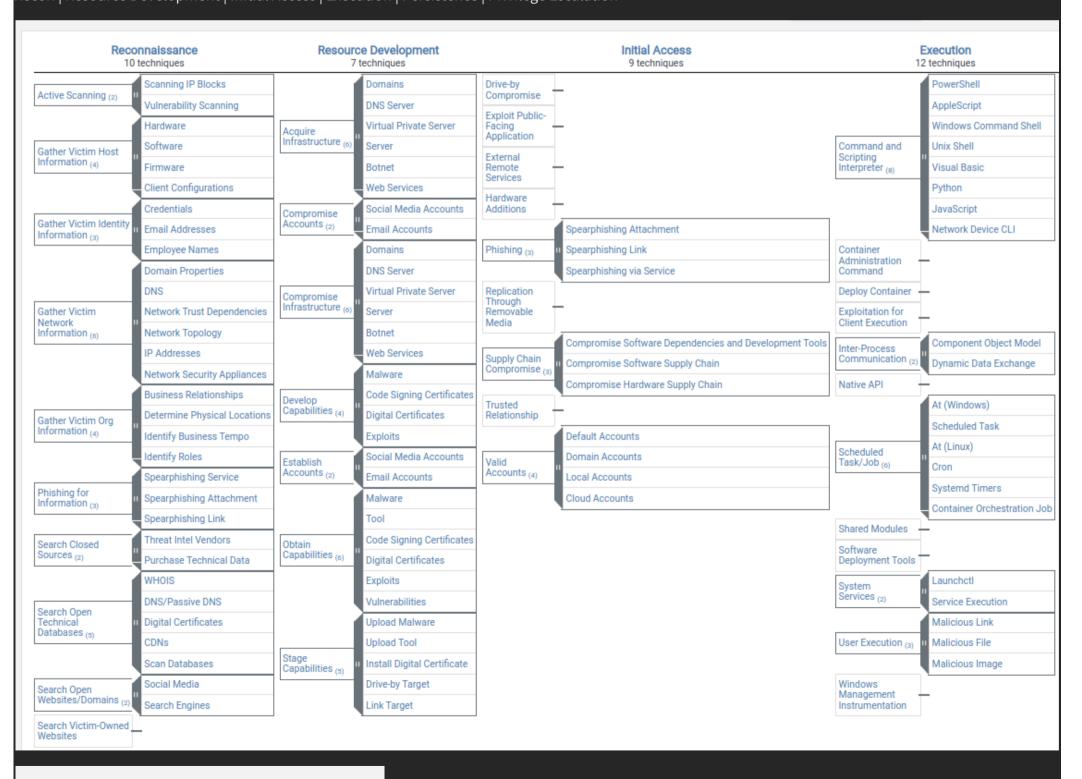
# Chapter 2: Labs

#### Activity 2.1: Explore the ATT&CK Framework

https://attack.mitre.org/



## Recon | Resource Development | Initial Access | Execution | Persistence | Privilege Escalation

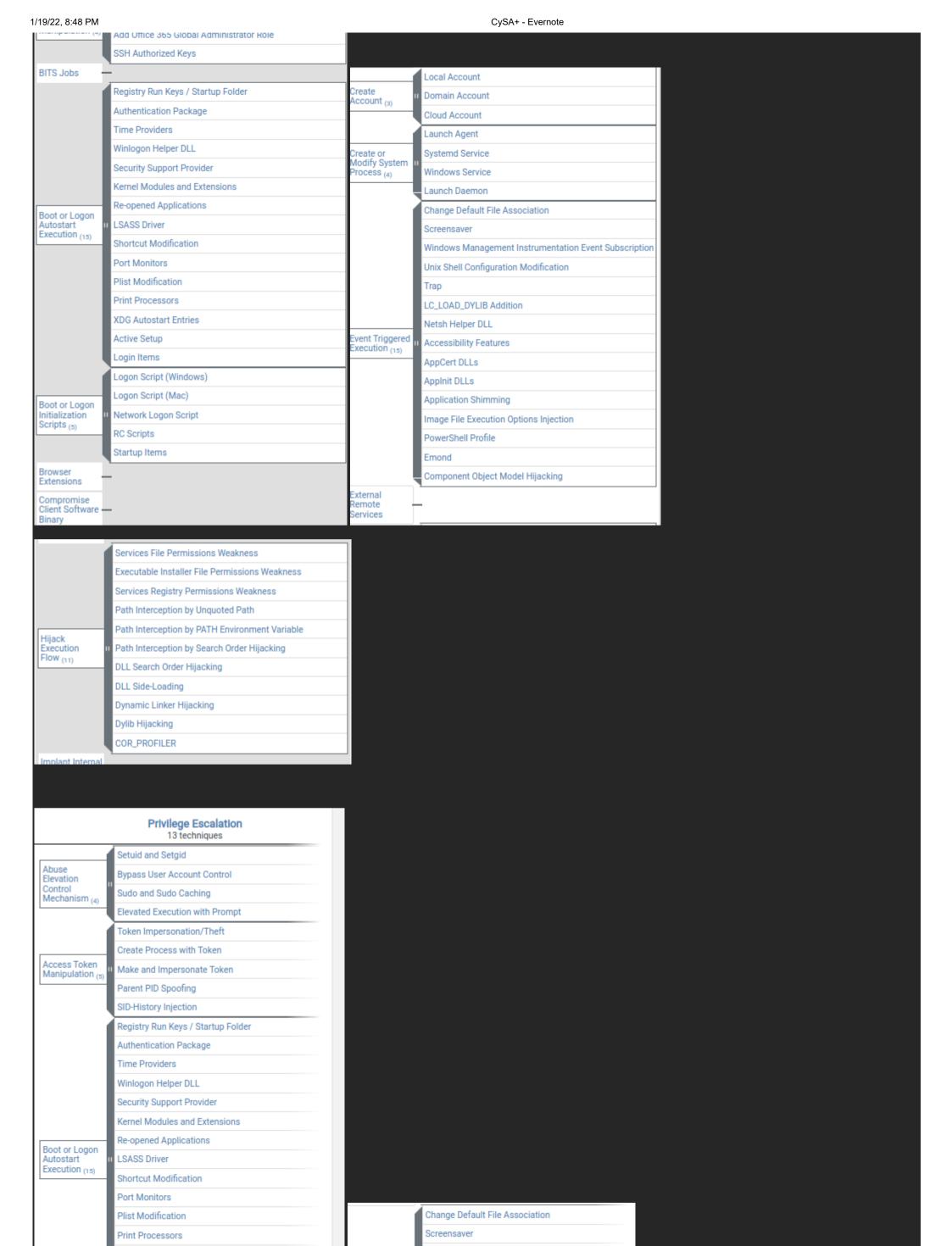


Account
Manipulation (4)

Persistence
19 techniques

Additional Cloud Credentials

Exchange Email Delegate Permissions



Windows Management Instrumentation Event Subs

Unix Shell Configuration Modification

LC\_LOAD\_DYLIB Addition

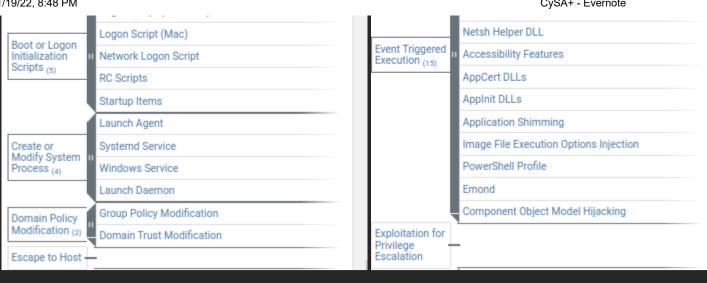
Trap

**XDG Autostart Entries** 

Logon Script (Windows)

Active Setup Login Items

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Services File Permissions Weakness Executable Installer File Permissions Weakness Services Registry Permissions Weakness Path Interception by Unquoted Path Path Interception by PATH Environment Variable Hiiack Execution Path Interception by Search Order Hijacking Flow (11) DLL Search Order Hijacking DLL Side-Loading Dynamic Linker Hijacking Dylib Hijacking COR\_PROFILER Dynamic-link Library Injection Portable Executable Injection Thread Execution Hijacking Asynchronous Procedure Call Thread Local Storage Process Ptrace System Calls Injection (11) Proc Memory Extra Window Memory Injection Process Doppelgänging Process Hollowing VDSO Hijacking At (Windows) Scheduled Task At (Linux) Scheduled Task/Job (6) Cron Systemd Timers Container Orchestration Job Default Accounts Domain Accounts Valid Accounts (4) Local Accounts Cloud Accounts

## https://edition.cnn.com/2021/06/11/cars/vw-audi-hack-customer-information/index.html

What was stolen?

hit by a data breach that exposed the contact information and, in some cases, personal details, like driver license numbers, of customers in the United States and Canada.

Who is affected?

More than 3 million customers or shoppers had at least basic contact information stolen from an outside company that worked with the automakers, according VW. That data included phone numbers, email addresses, postal mailing addresses and, in some cases, vehicle identification numbers. What is the company doing to "make it better?"

The company is offering free credit protection to those who had very sensitive information taken.

How was the data stolen?

The data, which was stolen from an outside vendor that VW and Audi and some of their dealers use, had been gathered between 2014 and 2019. The information had been collected and saved for marketing purposes, according to VW(VLKPF), and had been left in an unsecured file. VW did not name the vendor.

## Part 1: Build a threat profile/Part 2: Analysis

1. List what you know about the compromise or exploit, including details about the threat actor, what occurred, what tools were used, and as many other details as you can find.

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2. Review your list against the headings for the appropriate ATT&CK matrix. Do you have items that match the headings?

3. If you still lack data, you should continue your search or find another example to work through!

Insider Threat (unintentional): VW did not protect the data securely, and exposed the file to a 3rd party. The file was unsecured.

ATT&CK: Enterprise/Trusted Relationship

Mitigation: Properly manage accounts and permissions used by parties in trusted relationships to minimize potential abuse by the party and if the party is compromised by an adversary.

OR

ATT&CK: Collection/Archived Collected Data

Mitigation: Systems scans to identify unauthorized archival utilities

### Activity 2.2: Set Up a STIX/TAXII Feed

user: anomali

default password: anomolistaxx

changed pw: biddion4212

Anomali's STAXX community version provides an easy way to consume STIX feeds. In this exercise, you will download and install the STAXX client, and then review the data from one of the included feeds.

- 1. Visit <a href="www.anomali.com/community/staxx">www.anomali.com/community/staxx</a> and download the STAXX Community edition software. STAXX is a 1 GB download and requires an email to get the download link.
- 2. Install the STAXX client. You will need a virtualization environment like VirtualBox or VMWare to open the OVA file. Follow the Anomali setup and installation guide at <a href="mailto:update.anomali.com/staxx/docs/Anomali\_STAXX\_Installation\_& Administration\_Guide.pdf">update.anomali.com/staxx/docs/Anomali\_STAXX\_Installation\_& Administration\_Guide.pdf</a>.
- 3. This guide will help you get Anomali set up. When you connect to the web interface, you will need to accept the insecure connection on most major browsers.
- 4. When asked, use the Anomali Limo service to gather data for your first feeds.
- 5. Once you are in and Anomali has ingested its feeds, explore the dashboards. What is the most common indicator type? Does it match what you would expect?
- 6. Advanced: Identify a STIX feed that isn't part of the STAXX default feed list and add it to STAXX.



