DETECTING WINDOWS ATTACKS WITH SPLUNK

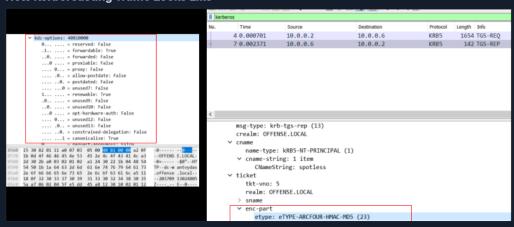
Detecting Kerberoasting

In 2016, a number of blog posts and articles emerged discussing the tactic of querying Service Principal Name (SPN) accounts and their corresponding tickets, an attack that came to be known as Kerberoasting. By possessing just one legitimate user account and its password, an attacker could retrieve the SPN tickets and attempt to break them offline.

After examining numerous resources on kerberoasting, it is evident that RC4 is utilized for ticket encryption behind the scenes. We will exploit this underpinning as a detection point in this section.

Evidence Source: https://www.ired.team/offensive-security-experiments/active-directory-kerberos-abuse/t1208-

How Kerberoasting Traffic Looks Like



Let's now navigate to the bottom of this section and click on "Click here to spawn the target system!". Then, access the Splunk interface at https://[Target IP]:8000 and launch the Search & Reporting Splunk application. The vast majority of searches covered from this point up to end of this section can be replicated inside the target, offering a more comprehensive grasp of the topics presented.

Additionally, we can access the spawned target via RDP as outlined below. All files, logs, and PCAP files related to the covered attacks can be found in the /home/htb-student and /home/htb-student/module_files directories.

Detecting Kerberoasting MisaelMacias@htb[/htb]\$ xfreerdp /u:htb-student /p:'HTB_@cademy_stdnt!' /v:[Target IP] /dynamic-res

Related Evidence

- Related Directory: /home/htb-student/module_files/sharphound
- Related Splunk Index: sharphound
- Related Splunk Sourcetype: bro:kerberos:json

Detecting Kerberoasting With Splunk & Zeek Logs

Now let's explore how we can identify Kerberoasting, using Splunk and Zeek logs.



Page 16 / Detecting Kerberoasting



Leveraging Splunk's Application Capabilities

Creating Custom Splunk **Applications**

Leveraging Zeek Logs

- Detecting RDP Brute Force Attacks
 - Detecting Beaconing Malware
- Detecting Nmap Port Scanning
- Detecting Kerberos Brute Force **Attacks**
- Detecting Kerberoasting
- Detecting Golden Tickets
- Detecting Cobalt Strike's **PSExec**
- Detecting Zerologon
- Detecting Exfiltration (HTTP)
- Detecting Exfiltration (DNS)
- Detecting Ransomware

Skills Assessment

