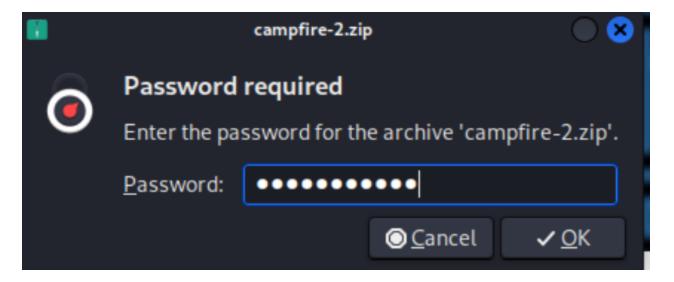
https://app.hackthebox.com/sherlocks/campfire-2/play

Forela's Network is constantly under attack. The security system raised an alert about an old admin account requesting a ticket from KDC on a domain controller. Inventory shows that this user account is not used as of now so you are tasked to take a look at this. This may be an AsREP roasting attack as anyone can request any user's ticket which has preauthentication disabled.

First things first, let's download the zip from Hack the Box onto my Kali Virtual Machine.



Next, we need to unzip the files using the password provided by HTB.



Inside the zip there's a Windows event log file.



To analyze this, I'll be using Chainsaw to parse through this file. Chainsaw is an open-source tool used to quickly analyze threats in Windows artifacts.

First we need to navigate to the directory where the event log is located.

```
—(kali⊛kali)-[~]
—$ cd Downloads/campfire2
```

Next, let's build a chainsaw command to parse this file and output it into a csv, so we can read it.

The 'hunt' command analyzes event logs for malicious activity while referencing Sigma rules, specifically windows built in security rules. The flags specify to output to a csv file called "csvSecurity".

We can see that 95 detections were found in our event log. Let's take a look at the output.

The Event ID for Kerberos authentication attempts is 4768, so I search our output for that ID, and find a potential ASREP Roasting attack.

Let's see if we can answer the first question.

```
When did the ASREP Roasting attack occur, and when did the attacker request the Kerberos ticket for the vulnerable user?

YYYY-MM-DD HH:MM:SS
```

At the beginning of this event, we can see the date, and the time is specified after 'T'.

```
2024-05-29T06:36:40
```

So, the attack occurred on 2024-05-29 at 06:36:40.

Please confirm the User Account that was targeted by the attacker.

user.name

Let's look back at our chainsaw output. Below the attack event we can see more details, including "TargetUserName".

```
2024-05-29T06:36:40.246362+00:00,Potential AS-REP Roasting Security-Auditing,4768,6241,DC01.forela.local,"CertSerialN PreAuthType: '0'
TicketOptions: '0×40800010'
TicketEncryptionType: '0×17'
TargetDomainName: forela.local
CertIssuerName: ''
Status: '0×0'
TargetUserName: arthur.kyle
TargetSid: S-1-5-21-3239415629-1862073780-2394361899-1601
ServiceName: krbtgt
IpAddress: ::ffff:172.17.79.129
```

The targeted user in this case is "arthur.kyle".

What was the SID of the account? S-1-5-21-XXXXX-XXXX-XXXX

Directly below the TargetUserName we can find the TargetSid:

```
TargetSid: S-1-5-21-3239415629-1862073780-2394361899-1601
```

The SID of the account is S-1-5-21-3239415629-1862073780-2394361899-1601.

It is crucial to identify the compromised user account and the workstation responsible for this attack. Please list the internal IP address of the compromised asset to assist our threat-hunting team.

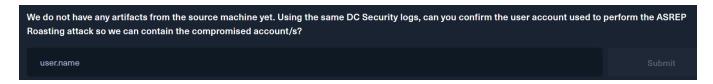
XXXX

Submit

Again, we can find the desired information below the attack event, under IpAddress.

```
IpAddress: ::ffff:172.17.79.129
```

The IP address has a 'ffff:' prefix attached (to represent IPV4 addresses within IPV6 space). Hack The Box is only asking for the IPV4 address here. That address is 172.17.79.129.



To track down the compromised account, let's first look at the sherlock description. "The security system raised an alert about an old admin account requesting a ticket from KDC on a domain controller".

The Event ID for requesting a Kerberos service ticket is 4769. So, let's ctrl+f and look for 4769.



No matches. In that case, let's go back to chainsaw and hunt the Event log again, this time looking specifically for Kerberos service tickets.

We'll search the event log file specifically for events with the ID 4769, and output to a csv file.



Let's open the output file in mousepad.

We can see multiple Kerberos service ticket requests in the output file. However, we are only looking for Kerberos service ticket requests that came from the attacker's IP address. So, we ctrl+f the output file for the IP address we found earlier.

```
EventData:
   TargetUserName: happy.grunwald@FORELA.LOCAL
   TargetDomainName: FORELA.LOCAL
   ServiceName: DC01$
   ServiceSid: S-1-5-21-3239415629-1862073780-2394361899-1000
   TicketOptions: '0×40810000'
   TicketEncryptionType: '0×12'
   IpAddress: ::ffff:172.17.79.129
   IpPort: '61975'
   Status: '0×0'
   LogonGuid: 543ACECF-87DD-45D9-CF0D-6C1F28070DC3
   TransmittedServices: '-'
```

We've got a hit! It looks like the attacker used the user account happy.grunwald to perform the AS-REP attack.



Conclusion:

After finishing this lab writeup, I saw a lot of other writeups manually searching through the event logs to find the information we needed. This was a great lab to show how tools like Chainsaw can cut down on the manual searching and make our job much easier (and quicker).