

Intro

If in **AS-REQ roasting** the main target is the get **cypher timestamp** to then try to crack it, in the **AS-REP Roasting**, the Authentication Services Reply to the User, the target is the **network packet** that contains the **session key** and that is **cypher with the user cypher key** to the try to crack it off line.

But, which is the difference? The difference here is that a privilege that involves the UAC will come into play, which will allow us **to obtain the TGT** without having to do the pre-authentication process.

That's means, that we, being other user, can send the name of any domain user and the Authentication Services going to find that user, and if he is in the Domain database going to cypher the **TGT** with the private Key of the **TGS** and then going to **cypher the packet with the session Key** and **the private Key** of that user that we have already send. Then, the **AS** going to *Reply* is the *network packet* that contains the **session key** and that is **cypher with the user cypher key** and we are going to try *to crack it off line*.

For that reason Windows Implements the method of pre authentication, for an attacker can not sniff or intercept the traffic in any way.

Exploiting AS-REP Roasting

We have to start to identify those users on the system that **Do not require Kerberos preauthentication :**

Supposing that we have created an user list, we can user **Kerbrute** with the options **enumuser** meanwhile we are sniffing the network traffic.

Once we have done this, we have to watch the sniffer on that we have to capture the network traffic and find those network packets with the headers **AS-REP**

Then we just have to build the hash in the format that we saw in the in the **AS-REQ**Roasting and try to crack it offline, with the difference that all the info to built the hash is in the same network packet

```
* Record Nark: 1616 bytes

* Part Nark: 1616 byte
```

\$krb5pa\$18\$User\$THE.DOMAIN\$TheSalt\$thecypher

🥵 📥 📦 AS-REQ With impacket

The other way to try to get those AS-REP Rosteable Users using a user list, but in an automatic way, is with the too *impacket*. Specifically using the next command

impacket-GetNPUsers domain.local/ -users the_file_users.txt -format john -outputfile hash_files.txt

And the result going to be the hashes already built and ready to to be cracked

```
A) B-/Destroy/Mousinus Active Directory/Mousinus Active Directory/Mous
```

And, If we have **the credentials of an user in the domain** we can enumerate all the user that **Do not require Kerberos preauthentication** and even dump the the hashes already built to be cracked with the command

impacket-GetNPUsers domain.local/username:password -format john -outputfile hash_file.txt



Additional info.

We can enumerate those users on the domain that are susceptible to **AS-REQ roasting** using **bloodhound** . Specifically in the analysis apart and click on **Find AS-REP Rosteable Users**

