

ROLL NO:241901047

NAME: KEERTHISRI D

Exercise-1

CAPTURE FLAGS-ENCRYPTION CRYPTO 101

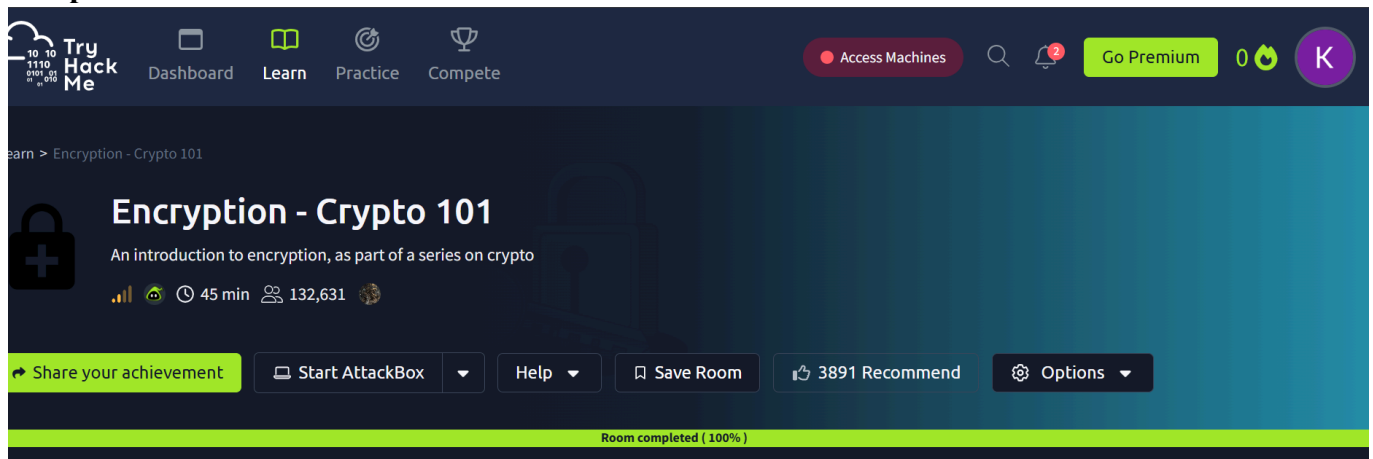
Aim:

To capture the various flags in Encryption Crypto 101 in TryHackMe platform.

Algorithm:

1. Access the Passive reconnaissance lab in TryHackMe platform using the link below- <https://tryhackme.com/r/room/encryptioncrypto101>
2. Click Start AttackBox to run the instance of Kali Linux distribution.
3. Solve the crypto math used in RSA.
4. Find out who issued the HTTPS Certificate to tryhackme.com
5. Perform SSH Authentication by generating public and private key pair using ssh-keygen
6. Perform decryption of the gpg encrypted file and find out the secret word.

Output:



Task 1	✔	What will this room cover?	▼
Task 2	✔	Key terms	▼
Task 3	✔	Why is Encryption important?	↻ ▼
Task 4	✔	Crucial Crypto Maths	▼
Task 5	✔	Types of Encryption	▼
Task 6	✔	RSA - Rivest Shamir Adleman	▼
Task 7	✔	Establishing Keys Using Asymmetric Cryptography	▼
Task 8	✔	Digital signatures and Certificates	▼
Task 9	✔	SSH Authentication	↻ ▼

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Learn > Encryption - Crypto 101

Encryption - Crypto 101

An introduction to encryption, as part of a series on crypto

45 min

132,631

Share your achievement

Help

Save Room

3891 Recommend

Options

Room completed (100%)

Task 1 What will this room cover?

Your machine is initializing...

Use the AttackBox to attack machines you start on tasks

Loading (7%)

+

-

59min 53s

```
root@ip-10-10-18-189: ~
File Edit View Search Terminal Help
root@ip-10-10-18-189:~# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa): myKey
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in myKey.
Your public key has been saved in myKey.pub.
The key fingerprint is:
SHA256:MYLMN1vmJnlZgFjuatvJ+maOmK9HcIARie//j0dXt9s root@ip-10-10-18-189
The key's randomart image is:
+---[RSA 2048]---+
|== .                |
|o.. + .             |
|... o .             |
|..o.o +             |
|.o+ = S .           |
|..o o o. .          |
|. + + =. . .         |
|.o+=. . .           |
|++*OX. ..E          |
+---[SHA256]-----+
root@ip-10-10-18-189:~# ls
burp.json    Downloads    myKey.pub    Rooms        Tools
CTFBuilder   Instructions  Pictures     Scripts      welcome.txt
Desktop      myKey        Postman      thinclient_drives  welcome.txt.gpg
```

```
root@ip-10-10-18-189:~# gpg --import
tryhackme.key gpg: /root/.gnupg/trustdb.gpg: trustdb
created
gpg: key FFA4B5252BAEB2E6: public key "TryHackMe (Example Key)" imported
gpg: key FFA4B5252BAEB2E6: secret key imported
gpg: Total number processed:
1 gpg:      imported: 1
gpg:      secret keys read: 1
gpg: secret keys imported: 1

root@ip-10-10-18-189:~# gpg message.gpg

gpg: WARNING: no command supplied. Trying to guess what you mean ...
gpg: encrypted with 1024-bit RSA key, ID 2A0A5FDC5081B1C5, created 2020-06-30
"TryHackMe (Example Key)"

gpg: WARNING: no command supplied. Trying to guess what you mean ...
gpg: encrypted with 1024-bit RSA key, ID 2A0A5FDC5081B1C5, created 2020-06-30
"TryHackMe (Example Key)"
```

Result: Thus, the various flags have been captured in Encryption Crypto 101 in TryHackMe platform