CAPTURE FLAGS-ENCRYPTION CRYPTO 101

EXP.NO: 3

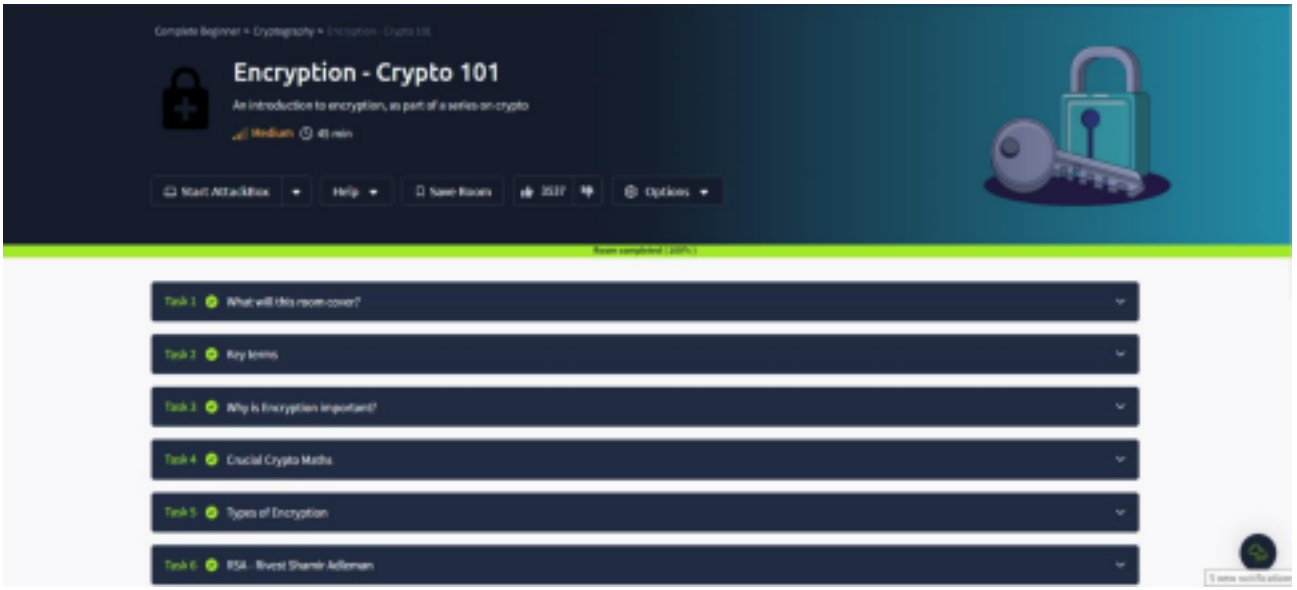
AIM:

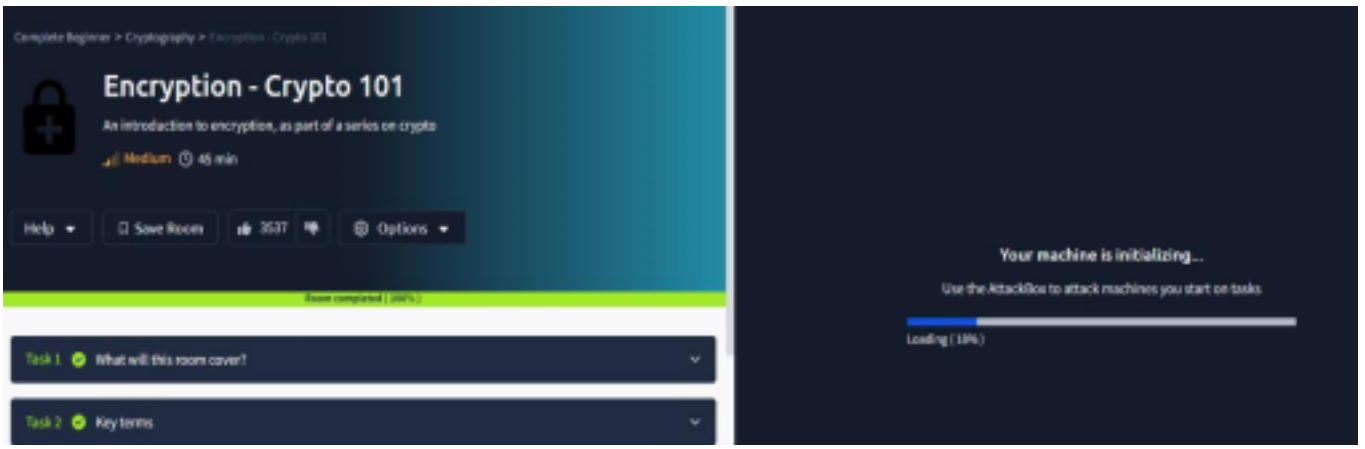
To capture the various flags in Encryption Crypto 101 in TryHackMe platform.

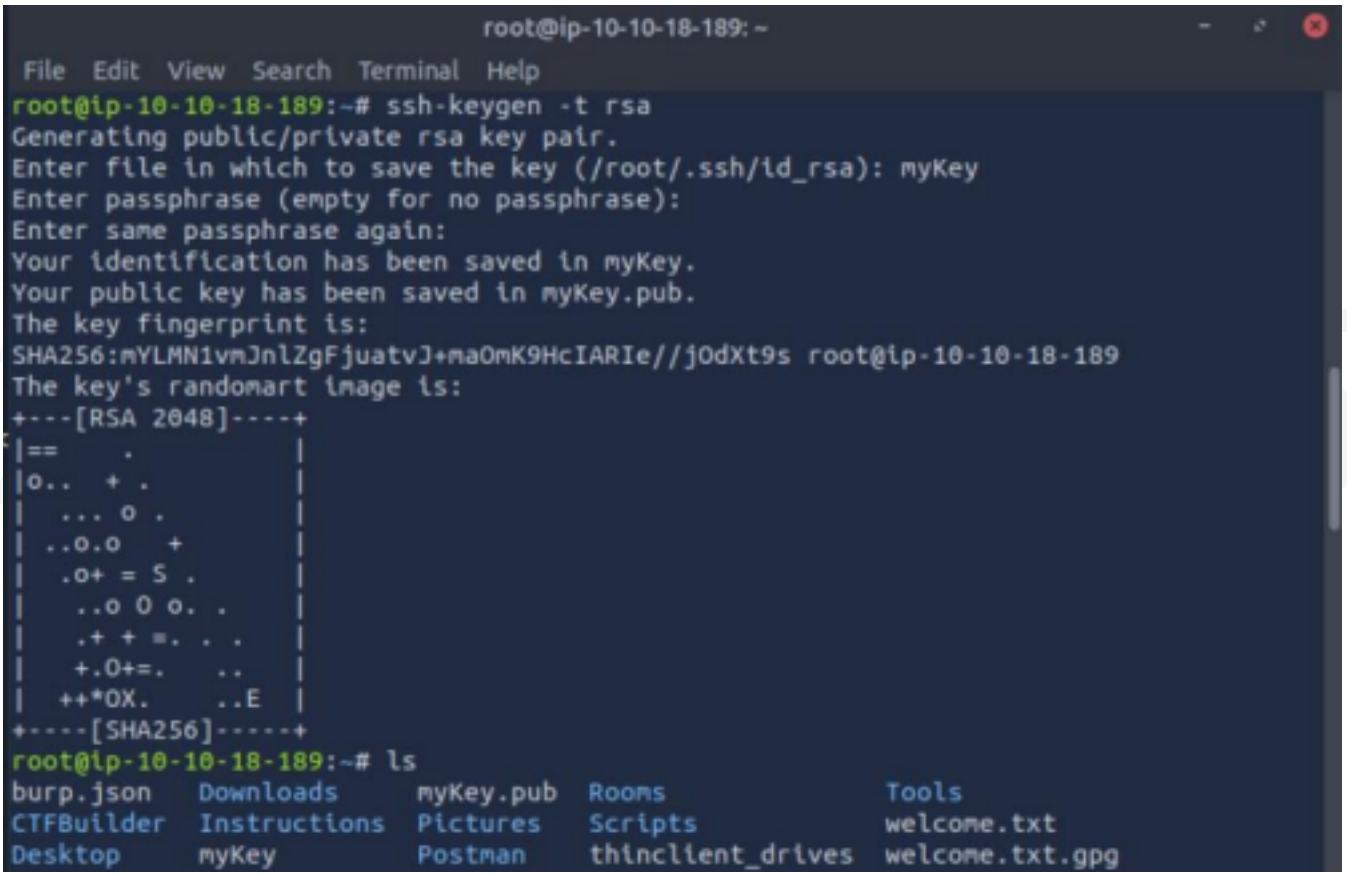
ALGORITHM:

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:







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 ...

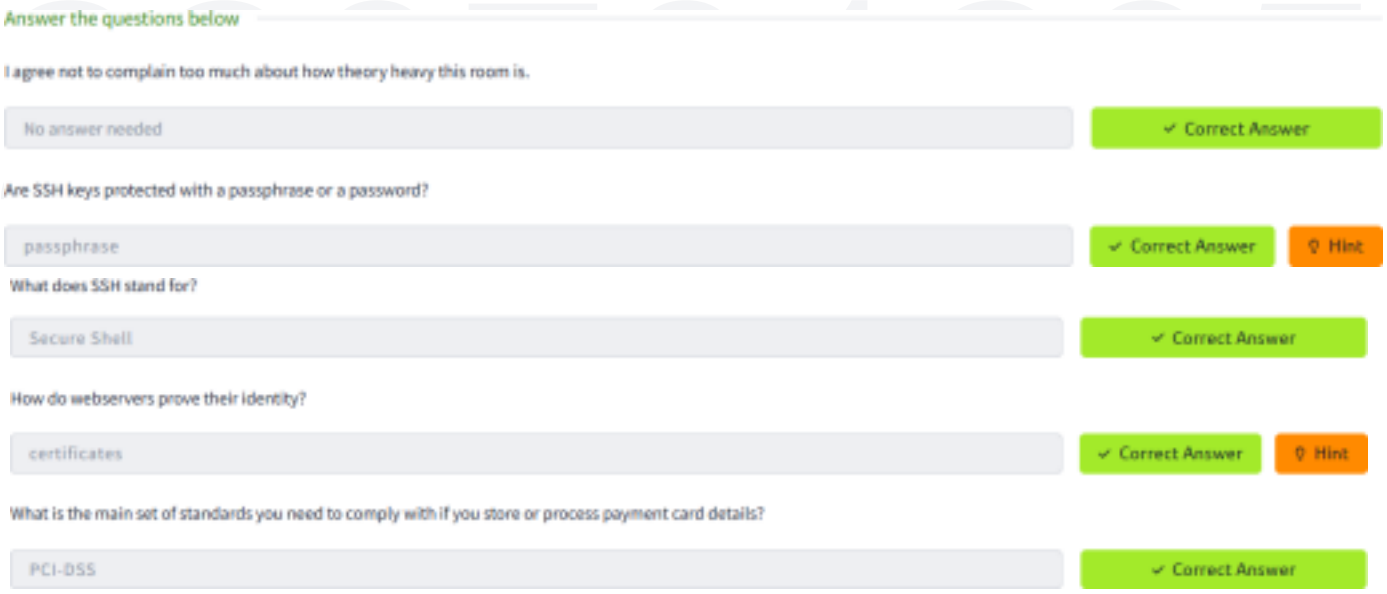
gpg: encrypted with 1024-bit RSA key, ID 2A0A5FDC5081B1C5, created 2020-06-30

"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)"



What's 30 % 5?

0 ✓ Correct Answer

What's 25 % 7

4 ✓ Correct Answer

What's 118613842 % 9091

3565 ✓ Correct Answer 💡 Hint

Should you trust DES? Yea/Nay

Nay ✓ Correct Answer 💡 Hint

What was the result of the attempt to make DES more secure so that it could be used for longer?

Triple DES ✓ Correct Answer 💡 Hint

Is it ok to share your public key? Yea/Nay

Yea ✓ Correct Answer

p = 4391, q = 6659. What is n?

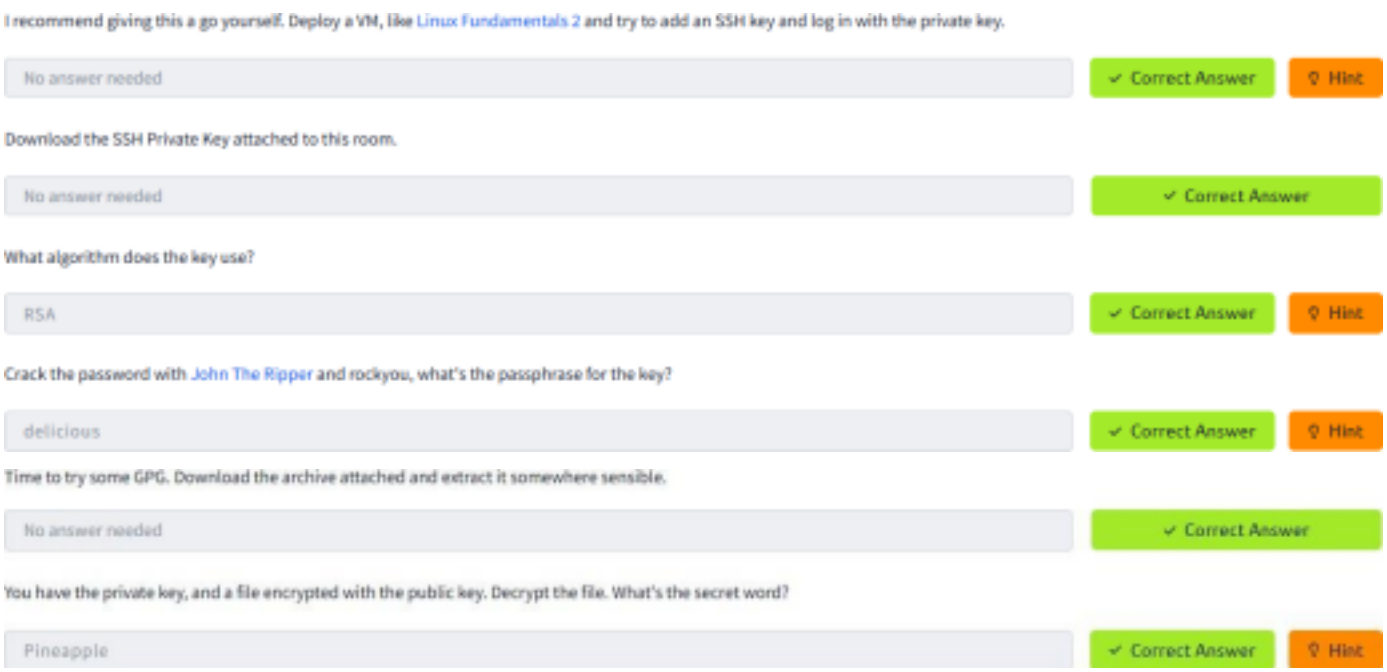
29239669 ✓ Correct Answer 💡 Hint

I understand enough about RSA to move on, and I know where to look to learn more if I want to.

No answer needed ✓ Correct Answer

What can you use to verify that a file has not been modified and is the authentic file as the author intended?

Digital Signature ✓ Correct Answer



RESULT:

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