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## **CAPTURE FLAGS-ENCRYPTION CRYPTO 101**

### **Aim:**

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

### **Algorithm:**

1. Access the Encryption Crypto 101 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.

The screenshot displays the TryHackMe interface for the 'Encryption - Crypto 101' room. The header includes navigation links like 'Dashboard', 'Learn', 'Compete', and 'Other', along with user options like 'Access Machines', 'Go Premium', and a profile icon. The room title 'Encryption - Crypto 101' is prominently displayed, followed by a subtitle 'An introduction to encryption, as part of a series on crypto' and a 'Medium' difficulty rating with a '45 min' estimate. A row of buttons includes 'Share your achievement', 'Start AttackBox', 'Help', 'Save Room', a like count of '3726', and 'Options'. Below this, a list of 10 tasks is shown, each with a green checkmark indicating completion. The tasks cover various topics from basic encryption concepts to advanced topics like RSA, asymmetric cryptography, digital signatures, SSH authentication, and Diffie-Hellman key exchange. A progress bar at the bottom confirms 'Room completed (100%)'.

**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)"
```

**Result:**

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