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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 platform interface for the 'Encryption - Crypto 101' room. The top navigation bar includes the TryHackMe logo, a search bar, and links to 'Dashboard', 'Learn', 'Compete', and 'Other'. A 'To exit full screen, press and hold Esc' tooltip is visible. The room header shows the title 'Encryption - Crypto 101', a subtitle 'An introduction to encryption, as part of a series on crypto', a 'Medium' difficulty level, and a '45 min' duration. Below the header, there are buttons for 'Share your achievement', 'Start AttackBox', 'Help', 'Save Room', and 'Options'. A green progress bar at the bottom indicates 'Room completed (100%)'. A list of tasks is shown, all marked as completed with green checkmarks: 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, and Task 7: Establishing Keys Using Asymmetric Cryptography.

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.