

**EXP NO 1: CAPTURE ALL THE FLAGS IN ENCRYPTION 101**  
**IN TRYHACKME PLATFORM**

**Rollno:241901058**

**AIM:**

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

**ALGORITHM:**

1. Access the Encryption Crypto 101 lab in TryHackMe platform.
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:**



Learn > Encryption - Crypto 101

## Encryption - Crypto 101

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

45 min 132,019

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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

Task 10 Explaining Diffie Hellman Key Exchange

Task 11 PGP, GPG and AES

Task 12 The Future - Quantum Computers and Encryption

```
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+ma0mK9HcIARIE//j0dxt9s root@ip-10-10-18-189  
The key's randomart image is:  
+---[RSA 2048]---+  
|== . . |  
|0.. + . |  
| ... o . |  
| ..o.o + |  
|.o+ = S . |  
| ..o O o. . |  
| .+ + =. . . |  
| +.0+=. . . |  
| ++*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
```

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