

## **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  
sshkeygen
6. Perform decryption of the gpg encrypted file and find out the secret word.



# Encryption - Crypto 101

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

Medium 45 min

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3725
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Room completed ( 100% )

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

```
(kali@kali)-[~/Downloads]
$ john ssh.txt --wordlist=/usr/share/wordlists/rockyou.txt
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
delicious (id_rsa_1593558668558.id_rsa)
1g 0:00:00:00 DONE (2024-06-06 18:57) 25.00g/s 98400p/s 98400c/s 98400C/s savannah1..delicious
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

<https://tryhackme.com/r/room/encryptioncrypto101>

[Kali Forums](#)
[Kali NetHunter](#)
[Exploit-DB](#)
[Google Hacking DB](#)
[OffSec](#)

Certificate

tryhackme.com	E1
Subject Name	
Common Name	tryhackme.com
Issuer Name	
Country	US
Organization	Let's Encrypt
Common Name	E1

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

