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## BREAKING RSA

DATE: 19-02-2025

### AIM:

Hop in and break poorly implemented RSA using Fermat's factorization algorithm.

### PROCEDURE:

- Task 1: Capture the flag

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Answer the questions below

How many services are running on the box?	2	✓ Correct Answer
What is the name of the hidden directory on the web server? (without leading '/')	development	✓ Correct Answer
What is the length of the discovered RSA key? (in bits)	4096	✓ Correct Answer
What are the last 10 digits of n? (where 'n' is the modulus for the public-private key pair)	1225222383	✓ Correct Answer
Factorize n into prime numbers p and q	No answer needed	✓ Correct Answer
What is the numerical difference between p and q?	1502	✓ Correct Answer
Generate the private key using p and q (take e = 65537)	No answer needed	✓ Correct Answer
What is the flag?	breakingRSA!superfun20220809134031	✓ Correct Answer

### RESULT:

Thus the Breaking RSA is successfully completed in tryhackme platform.



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