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## BREAKING RSA

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### 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!ssuperfun20220809134031 ✓ Correct Answer

### RESULT:

Thus the Breaking RSA is successfully completed in tryhackme platform.





