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History

ark1nar Yubitssec CTF - Write Up Crypto

Latest commit af115e3 2 days ago

src/RSA

Yubitssec CTF - Write Up Crypto

2 days ago

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2 days ago

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RSA 1 - Crypto - 325

Enoncé :

Can you decrypt these ciphertexts ?

Sources

Résolution :

Même chose pour les 3 clés :

On récupère les informations contenues dans la clé publique :

openssl rsa -in pubkey.pem -pubin -text -modulus

On remarque que le modulo est faible :

Public-Key: (149 bit)  
Modulus:  
1a:ac:d3:c9:0d:1a:bd:fd:dd:de:18:35:f5:8a:88:  
f0:36:8b:9f  
Exponent: 65537 (0x10001)  
Modulus=1AACD3C90D1ABDFDDDE1835F58A88F0368B9F  
-----BEGIN PUBLIC KEY-----  
MC4wDQYJKoZIhvcNAQEBBQADHQAwwGgITGqzTyQ0avf3d3hg19YqI8DaLnwIDAQAB  
-----END PUBLIC KEY-----  
Public-Key: (154 bit)  
Modulus:  
03:8a:f3:1e:59:8e:24:2b:5f:cf:1b:30:6f:df:f0:  
e2:d6:6e:f2:39  
Exponent: 65537 (0x10001)  
Modulus=38AF31E598E242B5FCF1B306FDF0E2D66EF239  
-----BEGIN PUBLIC KEY-----  
MC8wDQYJKoZIhvcNAQEBBQADHQAwwGgIUUA4rzHlM0JCtfzxsww9/w4tZu8jKCAwEA  
AQ==  
-----END PUBLIC KEY-----  
Public-Key: (151 bit)  
Modulus:  
65:7a:90:84:26:10:1a:fa:25:51:cf:ca:26:e3:9a:  
f5:64:53:27  
Exponent: 65537 (0x10001)  
Modulus=657A908426101AFA2551CFA26E39AF5645327  
-----BEGIN PUBLIC KEY-----  
MC4wDQYJKoZIhvcNAQEBBQADHQAwwGgITZXqQhCYQGvoLUc/KJu0a9WRTJwIDAQAB  
-----END PUBLIC KEY-----

On passe le modulo de hexa à int est on le factorise :

