

Scenario 1:

Vulnerable Service Exploitation

RED TEAM

Goals:

- Attacker should perform enumeration/recon on target
- Attacker should see an service on port 6969 (vulnerable jenkins)
- Attacker should discover that there is no authentication required
- Attacker should then launch MSF and search for the jenkins_console_exec
- Attacker should fill out required options and attempt to run the exploit
- exploit should fail so manual exploitation required
- Attacker should then traverse to the “Manage Jenkins” → “Script Console”
- Attacker then should find a reverse shell written in groovy
- connect to reverse shell and running whoami should show NT AUTHORITY\SYSTEM

Tools:

- nc
- msf
- nmap

Blue Team

Goal:

- Detect any exploit attempts against services running
- Check for the suspicious process using tools such as ProcExp and Task Manager, terminate if needed
- Watch the splunk alerts console for incoming alerts.
- *Source=“WinEventLog::security” EventCode=4688 “PowerShell”*

Scenario 2

SQL injection

RED TEAM

Goals:

- Attacker should run new nmap scan or refer to previous one
- Attacker should go to the DVWA application and navigate to SQLi page
- Attacker should either try manual or or automated exploit using sql
- If using sqlmap capture request using burpsuite
- Attack should be able to dump the user table as well as crack the passwords

Tools:

- NMAP
- SQLmap
- *Burpsuite*

BLUE TEAM

Goal

- Detect SQLi attempts
- Watch the splunk alerts console for incoming alerts.
- On receiving a “Potential SQLi Attempt” alert, review logs in splunk to find any potentially suspicious activity.
- Look for suspicious sql queries

Scenario 3

File Upload

RED TEAM

Goals:

- Attacker should perform new or refer to previous nmap scan
- Attacker should navigate to DVWA and the file upload
- Attacker should check that the backend is running php
- Attacker should attempt to upload a file and notice only image files are allowed
- Attacker should change the php reverse shell to php.jpeg
- Attacker should upload file, intercept request and change the file extension back to .php
- catch reverse shell and should be NT AUTHORITY/SYSTEM

BLUE TEAM

Goals

- Detect malicious file uploads
- Watch the splunk alerts console for incoming alerts.
- On receiving a “Potentially Malicious Upload Access” alert, review logs in splunk to find any potentially suspicious activity.
- Flag any potential malicious files