

# Scenario 1:

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## 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:

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## 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:

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## 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

#### Tools:

- ✚ NMAP
- ✚ nc
- ✚ *Burpsuite*

### 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