



# SYHUNT HYBRID: POC TEST PLAN

The information in this document applies to **version 6.8.1** of Syhunt Hybrid. This testing plan was designed for Syhunt Hybrid, the full-featured edition, and not Syhunt Community - because of restricted functionality and vulnerability checks in Community, some test cases are impossible to be performed and not all vulnerabilities will be detected.

## INTRODUCTION

This software test plan is aimed at verifying the functionality, accuracy and correct working of all key aspects and parts of Syhunt Hybrid. The testing is to be conducted at customer's premises after Syhunt Hybrid has been deployed and activated and involves performing dynamic and static scans under various conditions to simulate actual usage of the tools. Upon completion, the user should be familiar with key product functionality and integration capabilities, and Syhunt be able to collect usability feedback from the user.

## TEST CATEGORIES

### Phase 1 - Dynamic Auditing

D1: Scan a live website for vulnerabilities

D2: Manually login via browser and scan a restricted website for vulnerabilities

D3: Automatically login and scan a restricted website for vulnerabilities

D4: Just map a website (crawling/spidering test with JavaScript execution)

### Phase 2 - Source Code Auditing

S1: Scan local source code files for vulnerabilities

S2: Scan remote GIT repositories for vulnerabilities

### Phase 3 - Integration

N1: Launch a code scan via command-line interface

N2: Launch a dynamic scan via command-line interface

N3: Create a tracker issue based on a reported vulnerability

N4: Generate a F5 BigIP ASM compatible export

#### Phase 4 - Reporting

R1: Generate a complete HTML report for a scan session

R2: Generate a XML results export for a scan session

R3: Edit the information about a reported vulnerability

R4: Generate a comparison report between scan sessions

## ENVIRONMENTAL REQUIREMENTS

This testing plan assumes that Syhunt Hybrid is already installed on the machine that will execute the tests. If not, please continue reading this section.

Make sure the system requirements are met (see the system requirements below). Click the executable setup download link provided by Syhunt. After downloading the exe file, double-click its icon to launch it. It's an easy next-next-finish installation process. When you click Finish, Syhunt Hybrid will be launched and you will be prompted to enter a Pen-Tester Key - enter the one provided in the email message containing the download link. After you click OK, a success message indicates that the Syhunt is ready for testing and you should immediately see the Launcher screen.

### PREY SERVER

The Prey server is a portable Apache PHP web server containing a set of vulnerable web applications for demonstration purposes.

1. Download it from <http://www.syhunt.com/pub/downloads/syhunt-vulnphpserver.zip>
2. Unzip it to a directory of your choice
3. Run PreyServer.exe to launch it
4. Finally, open <http://127.0.0.1/syhunt/vulndemo> in the browser and you will see a welcome page

### GIT FOR WINDOWS

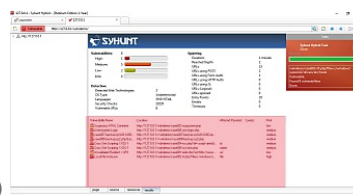
If you execute any GIT related test case, you will need to install Git for Windows, which can be downloaded at <https://gitforwindows.org/> After installing it with its default settings, make sure the git command is available through the Command Prompt - type `git` and hit enter.

## PHASE 1: DYNAMIC AUDITING

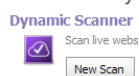
### D1: SCAN A LIVE WEBSITE FOR VULNERABILITIES

Action	Expected Results
Scan <a href="http://127.0.0.1/syhunt/vulndemo">http://127.0.0.1/syhunt/vulndemo</a> for vulnerabilities	After the scan completes, the results tab must list all test cases detected (from 001 to 012)

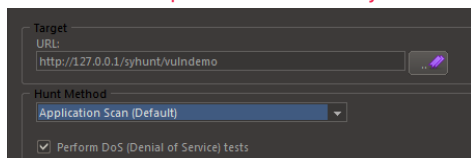
FOLLOW THE STEPS BELOW



1. Make sure the Prey server is running (as explained in the Environment Requirements section at the beginning of this document)
2. Launch Syhunt Hybrid and click the Syhunt Dynamic icon or New Scan button in the welcome page.



3. Enter the <http://127.0.0.1/syhunt/vulndemo> as the target URL.



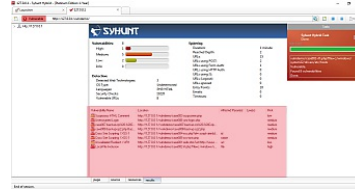
4. Select the Application Scan (Default) hunt method, which scans for all vulnerabilities using the recommended settings.
5. Click the Start Scan button

### D2: MANUALLY LOGIN VIA BROWSER AND SCAN A RESTRICTED WEBSITE FOR VULNERABILITIES

Action	Expected Results
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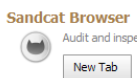
Scan <http://127.0.0.1/syhunt/restricted>, which uses web form authentication, for vulnerabilities

After the scan completes, the results tab must list all test cases (from 001 to 003)

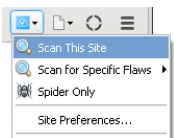


FOLLOW THE STEPS BELOW

1. Make sure the Prey server is running (as explained in the Environment Requirements section at the beginning of this document)
2. Launch Syhunt Hybrid and double-click the Sandcat Browser icon or New Tab button in the welcome page.



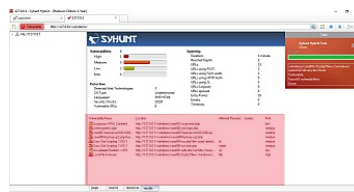
3. Navigate to <http://127.0.0.1/syhunt/restricted> - enter the URL using the address bar and press Enter.
4. Go to the Login area and login using the following credentials: username **test**, password **CUBPzjVy**
5. Click the Scan This Site menu option to start the scan.



6. Select the Application Scan (Default) hunt method, which scans for all vulnerabilities using the recommended settings.
7. Click the Start Scan button to launch the scan

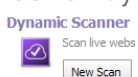
## D3: AUTOMATICALLY LOGIN AND SCAN A RESTRICTED WEBSITE FOR VULNERABILITIES

Action	Expected Results
Scan <a href="http://127.0.0.1/syhunt/restricted_b">http://127.0.0.1/syhunt/restricted_b</a> , which uses basic authentication, for vulnerabilities	After the scan completes, the results tab must list all test cases detected (from 001 to 003)

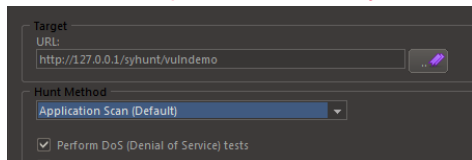


FOLLOW THE STEPS BELOW

1. Make sure the Prey server is running (as explained in the Environment Requirements section at the beginning of this document)
2. Launch Syhunt Hybrid and click the Syhunt Dynamic icon or New Scan button in the welcome page.



3. Enter the [http://127.0.0.1/syhunt/restricted\\_b](http://127.0.0.1/syhunt/restricted_b) as the target URL.

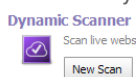


4. Select the Application Scan (Default) hunt method, which scans for all vulnerabilities using the recommended settings.
5. Check the option Edit site preferences before starting scan
3. Click the Start Scan button
7. In the next dialog, go to the Authentication tab. Switch Server Authentication from None to Basic
3. Enter username **test** and password **test**
3. Click the Ok button to launch the scan

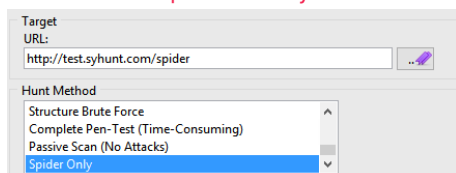
## D4: JUST MAP A WEBSITE (CRAWLING/SPIDERING TEST WITH JAVASCRIPT EXECUTION)

Action	Expected Results
Scan <a href="http://test.syhunt.com/spider">http://test.syhunt.com/spider</a>	After the scan completes, the site tree (left sidebar) when expanded must list alongside the site structure, all test cases (from 001 to 009) under the /passed/ directory
FOLLOW THE STEPS BELOW	

1. Launch Syhunt Hybrid and click the Syhunt Dynamic icon or New Scan button in the welcome page.



2. Enter the <http://test.syhunt.com/spider> as the target URL.



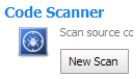
3. Select the Spider Only hunt method
4. Click the Start Scan button.

# PHASE 2: SOURCE CODE AUDITING

## S1: SCAN LOCAL SOURCE CODE FILES FOR VULNERABILITIES

Action	Expected Results
Launch a code scan against a local directory via graphical user interface	After the scan completes, the results must list all test cases (from 001 to 00g)

FOLLOW THE STEPS BELOW

1. Download <https://github.com/syhunt/vulnphp/archive/master.zip> and unzip it to C:\Vulnerable\PHP\ or a directory of your preference
2. Launch Syhunt Hybrid and click the Syhunt Code icon or New Scan button in the welcome page.  

3. Select the directory you unzipped master.zip
4. Make sure the Code Scan (default) hunt method is selected
5. Press the **Start Scan** button to launch the scan.

You can try the above procedure with vulnerable samples in different languages:

Java	<a href="https://github.com/syhunt/vulnjava-wavsep/archive/master.zip">https://github.com/syhunt/vulnjava-wavsep/archive/master.zip</a>
Lua	<a href="https://github.com/syhunt/vulnlua/archive/master.zip">https://github.com/syhunt/vulnlua/archive/master.zip</a>
PHP	<a href="https://github.com/syhunt/vulnphp/archive/master.zip">https://github.com/syhunt/vulnphp/archive/master.zip</a>

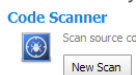
Note: the number of test cases in each archive may vary.

## S2: SCAN REMOTE GIT REPOSITORIES FOR VULNERABILITIES

Action	Expected Results
Launch a code scan against a remote GIT repository	After the scan completes, the results must list all test cases (from 001 to 00g)

FOLLOW THE STEPS BELOW

1. Launch Syhunt Hybrid and click the Syhunt Code icon or New Scan button in the welcome page.



2. Select type GIT URL and enter the URL: <https://github.com/syhunt/vulnphp.git>
3. Make sure the Code Scan (default) hunt method is selected
4. Press the **Start Scan** button to launch the scan.

You can try the above procedure with vulnerable samples in different languages:

Java	<a href="https://github.com/syhunt/vulnjava-wavsep.git">https://github.com/syhunt/vulnjava-wavsep.git</a>
Lua	<a href="https://github.com/syhunt/vulnlua.git">https://github.com/syhunt/vulnlua.git</a>
PHP	<a href="https://github.com/syhunt/vulnphp.git">https://github.com/syhunt/vulnphp.git</a>

Note: the number of test cases in each archive may vary.

## PHASE 3: INTEGRATION

### N1: LAUNCH A CODE SCAN VIA COMMAND-LINE INTERFACE

Action	Expected Results
Launch a code scan against <a href="https://github.com/syhunt/vulnphp">https://github.com/syhunt/vulnphp</a> via command-line interface	After the scan completes, the results must list all test cases (from 001 to 009)
FOLLOW THE STEPS BELOW	

1. Go to the directory Syhunt Hybrid is installed using the command prompt.
2. Use the following command-line (with the `-gr` parameter, so that it can generate a report):

Scancode <https://github.com/syhunt/vulnphp.git> -gr

### N2: LAUNCH A DYNAMIC SCAN VIA COMMAND-LINE INTERFACE

Action	Expected Results
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Launch a dynamic scan against <http://127.0.0.1/syhunt/vulndemo> via command-line interface

After the scan completes, the results must list all test cases (from 001 to 012)

FOLLOW THE STEPS BELOW

1. Make sure the Prey server is running (as explained in the Environment Requirements section at the beginning of this document)
2. Go to the directory Syhunt Hybrid is installed using the command prompt.
3. Use the following command-line (with the -gr parameter, so that it can generate a report):

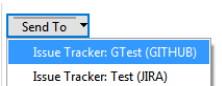
```
Scanurl 127.0.0.1/syhunt/vulndemo -gr
```

### N3: CREATE A TRACKER ISSUE BASED ON A REPORTED VULNERABILITY

Action	Expected Results
Create a GitHub issue based on a reported vulnerability	After adding a GitHub tracker and submitting a vulnerability, your GitHub repository will list the vulnerability as an issue

FOLLOW THE STEPS BELOW

1. Create a GitHub.com account, if you don't have one, and create a test repository
2. Add a GitHub tracker in Syhunt as explained in [Integrating Syhunt with JIRA and GitHub](#)
3. Go to the menu ☰ -> Past Sessions option
4. Right click a session with status Vulnerable and click the View Vulnerabilities option
5. Check the vulnerability you want to send to GitHub
5. Click the button SendTo -> Your tracker name to submit the vulnerability



### N4: GENERATE A F5 BIGIP ASM COMPATIBLE EXPORT

Action	Expected Results
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Generate a ASM export  
file for a scan

After clicking the Save button, the browser will open the compatible XML file  
which you can then import in BigIP ASM

FOLLOW THE STEPS BELOW

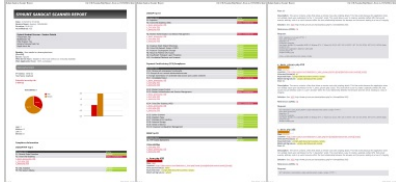
1. Go to the menu ☰ -> Past Sessions option
2. Right click a session with status Vulnerable and click Generate Report option
3. Select Complete report template option
4. Click the Save Report button (at the bottom right corner of the tab)
5. Select Save as type XML ASM Generic Scanner Format and finally click the Save button

## PHASE 4: REPORTING

### R1: GENERATE A COMPLETE HTML REPORT FOR A SCAN SESSION

Action	Expected Results
Generate a report for a scan	After clicking the Save button, the browser will open the HTML report file

FOLLOW THE STEPS BELOW



1. Go to the menu ☰ -> Past Sessions option
2. Right click a session with status Vulnerable and click Generate Report option
3. Select Complete report template option
4. Click the Save Report button (at the bottom right corner of the tab) and finally the Save button

### R2: GENERATE A XML RESULTS EXPORT FOR A SCAN SESSION

Action	Expected Results
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Generate a XML results file for a scan

After clicking the Save button, the browser will open the XML results file

FOLLOW THE STEPS BELOW

```
</vulnerable_code>
▼<cvss>
  ▼<cvss3>
    <vector>AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H</vector>
    <score>9.8 CRITICAL</score>
    <base_score>9.8</base_score>
    <severity>critical</severity>
    <impact_score>5.9</impact_score>
    <exploitability_score>3.9</exploitability_score>
    <temporal_score>NA</temporal_score>
    <environmental_score>NA</environmental_score>
    <mod_impact_subscore>NA</mod_impact_subscore>
  </cvss3>
  ▼<cvss2>
    <vector>AV:N/AC:L/Au:N/C:C/I:C/A:C</vector>
    <score>10.0 HIGH</score>
    <base_score>10.0</base_score>
    <severity>high</severity>
    <impact_score>10.0</impact_score>
    <exploitability_score>10.0</exploitability_score>
  </cvss2>
</vulnerable_code>
```

1. Go to the menu ☰ -> Past Sessions option
2. Right click a session with status Vulnerable and click Generate Report option
3. Select Complete report template option
4. Click the Save Report button (at the bottom right corner of the tab)
5. Select Save as type XML File and finally click the Save button

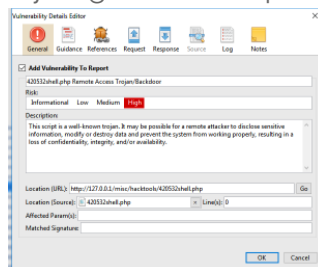
### R3: EDIT THE INFORMATION ABOUT A REPORTED VULNERABILITY

Action	Expected Results
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Edit the information about a reported vulnerability

See the vulnerability edit screen. After editing and confirming the changes, if you generate a report, it will contain the edited information

FOLLOW THE STEPS BELOW



1. Go to the menu ☰ -> Past Sessions option
2. Right click a session with status Vulnerable and click the View Vulnerabilities option
3. Double-click a vulnerability item
4. Change the vulnerability description as you wish. Go to the Notes tab and also add some notes
5. Click the OK button to save changes

## R4: GENERATE A COMPARISON REPORT BETWEEN SCAN SESSIONS


Action	Expected Results
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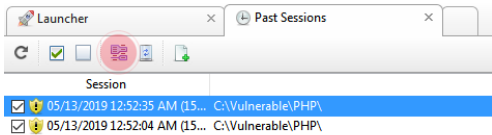
Generate a comparison report between two scan sessions

A report must be generated with the same contents from the comparison screen, which should list test cases 007 to 009 as removed

FOLLOW THE STEPS BELOW

Test Case	Severity	Score	CVSS	Exploitability	Impact	Confidence
007	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
008	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
009	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
010	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
011	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
012	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
013	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
014	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
015	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
016	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
017	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
018	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
019	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
020	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
021	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
022	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
023	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
024	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
025	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
026	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
027	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
028	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
029	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
030	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
031	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
032	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
033	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
034	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
035	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
036	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
037	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
038	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
039	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
040	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
041	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
042	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
043	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
044	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
045	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
046	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
047	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
048	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
049	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
050	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
051	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
052	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
053	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
054	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
055	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
056	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
057	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
058	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
059	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
060	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
061	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
062	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
063	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
064	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
065	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
066	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
067	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
068	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
069	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
070	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
071	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
072	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
073	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
074	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
075	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
076	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
077	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
078	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
079	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
080	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
081	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
082	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
083	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
084	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
085	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
086	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
087	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
088	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
089	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
090	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
091	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
092	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
093	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
094	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
095	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
096	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
097	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
098	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
099	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED
100	High	9.8	9.8	CONFIRMED	CRITICAL	CONFIRMED

1. Follow the steps described in section [S1](#).
2. After completing the scan, go to the directory where you saved the vulnerable samples and delete test cases 007 to 009.
3. Scan the directory again as explained in section [S1](#).
4. Go to the menu  -> Past Sessions option
5. Check the two last scan sessions and click the Compare Sessions toolbar icon:



3. Click the Save Comparison As button (at the bottom right corner of the tab) and finally click the Save button

For additional product documentation, visit [syhunt.com/docs](https://syhunt.com/docs)

