



## CorrelatedVM™ Overview

### **Business Problem**

- Does your security assessment program include?
  - Multiple tools
  - Manual testing
  - Integration with asset management
  - Customized reporting
  - Remediation tracking
  - Vulnerability trending
- How do you manage your vulnerability dataset?
  - Spreadsheets
  - Natively within an assessment product

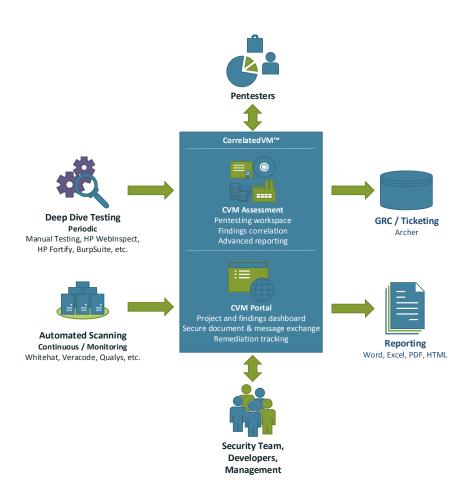


### CorrelatedVM™ Overview

- CorrelatedVM<sup>™</sup> is a vulnerability management framework tool developed by NetSPI designed to
  - Aggregate & correlate findings from multiple testing tools and from multiple testing layers
  - Manage vulnerability data
  - Produce quality, relative reports
- CorrelatedVM™ supports the following inputs
  - Code reviews
  - Application assessments
  - Database and operating system assessments
  - Penetration tests
  - Network assessments
  - Manual findings



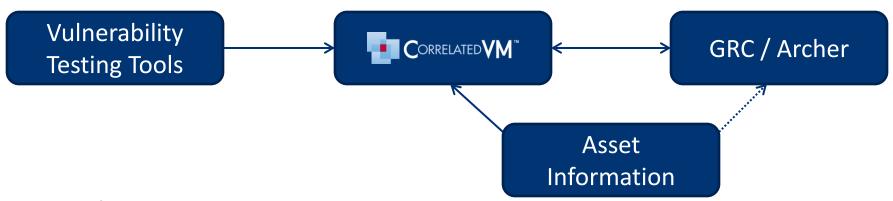
### CorrelatedVM™ Architecture



The rich client **CVM Assessment** software is designed by pentesters for pentesters; and the web based **CVM Portal**, is for software security stake holders, from developers up to the CISO. This built-in workflow will dramatically lower the risks associated with hosting or deploying vulnerable software on your network.

CorrelatedVM's ability to bring elegant order to the uniquely challenging and sometimes outright disorderly vulnerability management efforts has been demonstrated in hundreds of organizations, on thousands of engagements, and for some of the most business-critical applications running on some of the most secure networks in the world.

## CorrelatedVM™ Integrated with GRC / Archer



### Benefits

- Automation for remediation assignments & due dates
- Customization of vulnerability descriptions, recommendations, severities, etc.
- Grouping and filtering of findings
- Updates to existing records with use of the unique key
- Findings reports can be attached to remediation plans

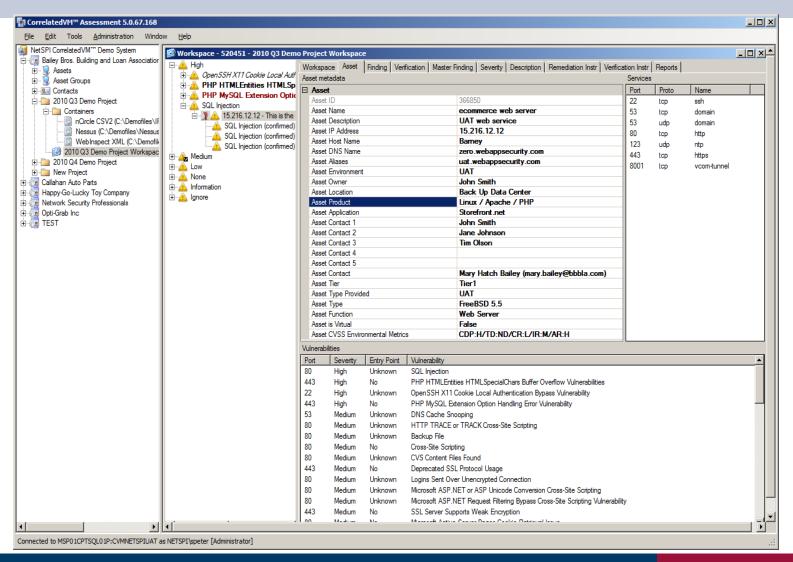




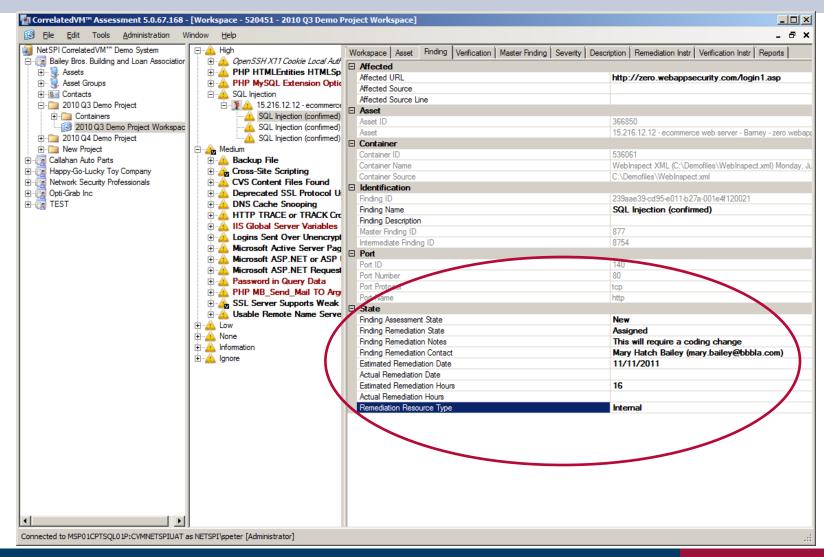


## **CVM Assessment Screen Shots**

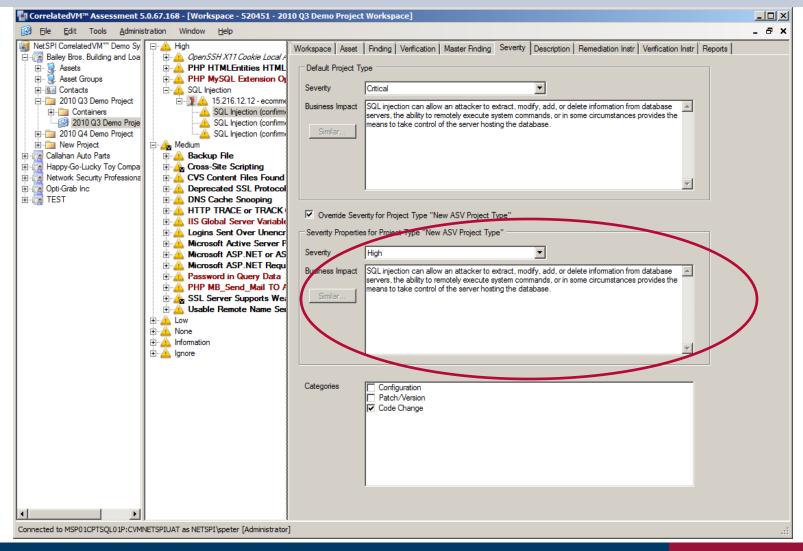
## **Asset Information**



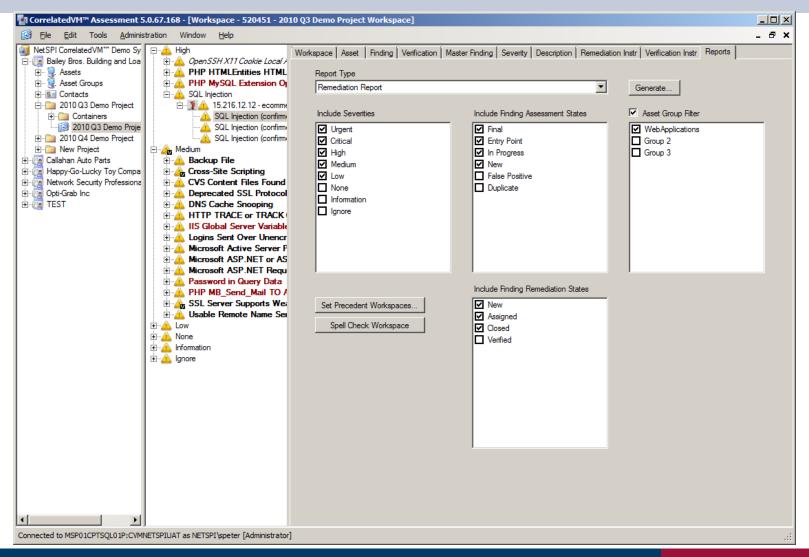
## Remediation Tracking



### **Customized Severities**



# Robust Reporting

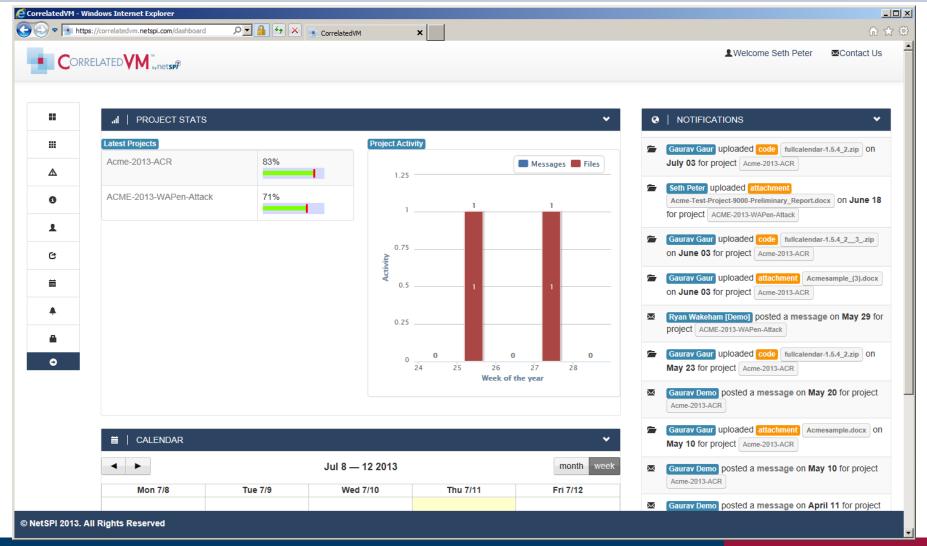




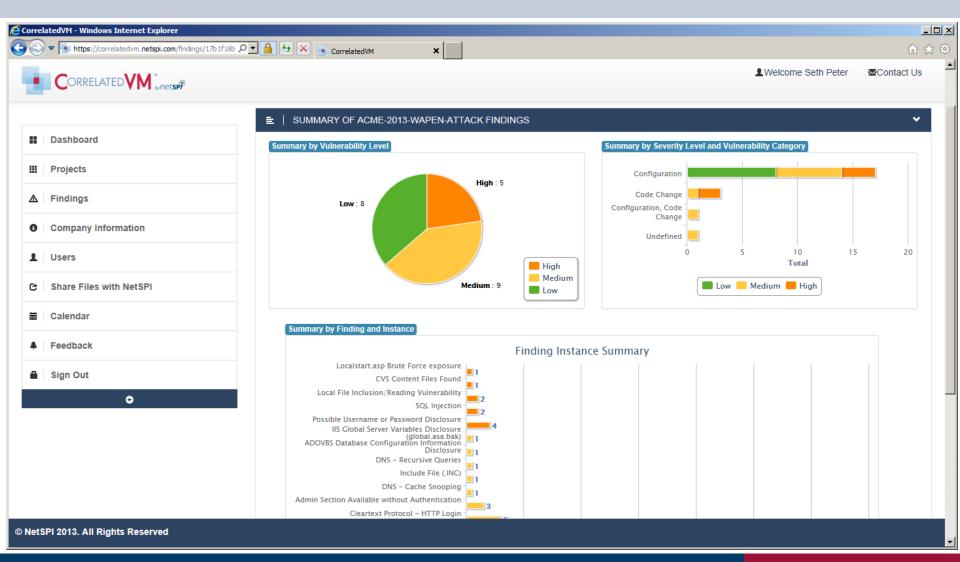


## **CVM Portal Screen Shots**

# Project Dashboards



# Dynamic Charts



## **Detailed Findings**

· principer

369890	15.216.12.12-zero.webappsecurity.com	Localstart.asp Brute Force exposure	80	http	New	High	Configuration	+
369893	15.216.12.12-zero.webappsecurity.com	SQL Injection	80	http	Partially Remediated	High	Code Change	+

#### Vulnerability Details

SQL injection is a method of attack that takes advantage of input variables that have not been validated, thus allowing the manipulation of SQL queries processed by the backend database server. It is often presented in web-based forms, queries within URLs, and XML requests.

#### Business Impact

SQL injection may allow an attacker to extract, modify, add, or delete information from database servers, causing the confidentiality and integrity of the information stored in the database to be compromised. Depending on the SQL implementation, the attacker may also be able to execute system commands on the affected host. In some circumstances this provides the means to take control of the server hosting the database, leading to the complete compromise of the confidentiality, integrity, and availability of the affected host.

#### OWASP Category

A1-Injection

#### Recommendation

Employ a layered approach to security that includes using parameterized queries when accepting user input. Strictly define the data type (for instance, a string, an alphanumeric character, etc.) that the application will accept and harden the database server to prevent data from being accessed inappropriately.

Also, ensure that all data used by the application is put through a data input filter that removes potentially harmful characters. Best practice recommends the use of white lists using regular expressions.

Disable detailed error messages that could give an attacker information about database names, table names, versions and type of databases being used. Replace the error message with a generic error asking the user to contact the IT department or send an e-mail to the web administrator.

A non-privileged service account should be used to run the database server, and the database user in use should not have administrative privileges to the database. Following the principle of least privilege when assigning permissions for the service account and database user helps limit the impact of a successful SQL injection attack.

#### References

- · http://en.wikipedia.org/wiki/Sql\_injection,
- http://en.wikipedia.org/wiki/SQL\_injection.
- http://msdn.microsoft.com/msdnmag/issues/04/09/SQLInjection/default.aspx.
- http://msdn2.microsoft.com/en-us/library/ms161953.aspx.
- http://www.owasp.org/index.php/Avoiding\_SQL\_Injection,
- · http://www.owasp.org/index.php/Blind SQL Injection.
- http://www.owasp.org/index.php/SQL\_injection,
- http://www.owasp.org/index.php/Testing for SQL Injection %28OWASP-DV-005%29

Download This Info

#### Finding Details

AffectedUrl http://zero.webappsecurity.com/forgot1.asp?get=security\_audit%2540netspi.com'+and++(select+count(\*)+from+spitable) +=1+or+'1'='0

AffectedUrl http://zero.webappsecurity.com/login1.asp

Additional Details





### Contact us:

www.netspi.com

612-465-8880