

WEB SECURITY

Business challenge

Web site security is possibly today's most overlooked aspect of securing data. Hackers are focusing their efforts on hacking web sites as it is mostly connected to web-based applications such as shopping carts, forms, login pages, dynamic content, as well as important database like inventory, customer credit card numbers, transaction records, etc. According to a survey by the Gartner Group, almost three-fourths of all Internet assaults are targeted at Web applications.

The HiTRUST Solution

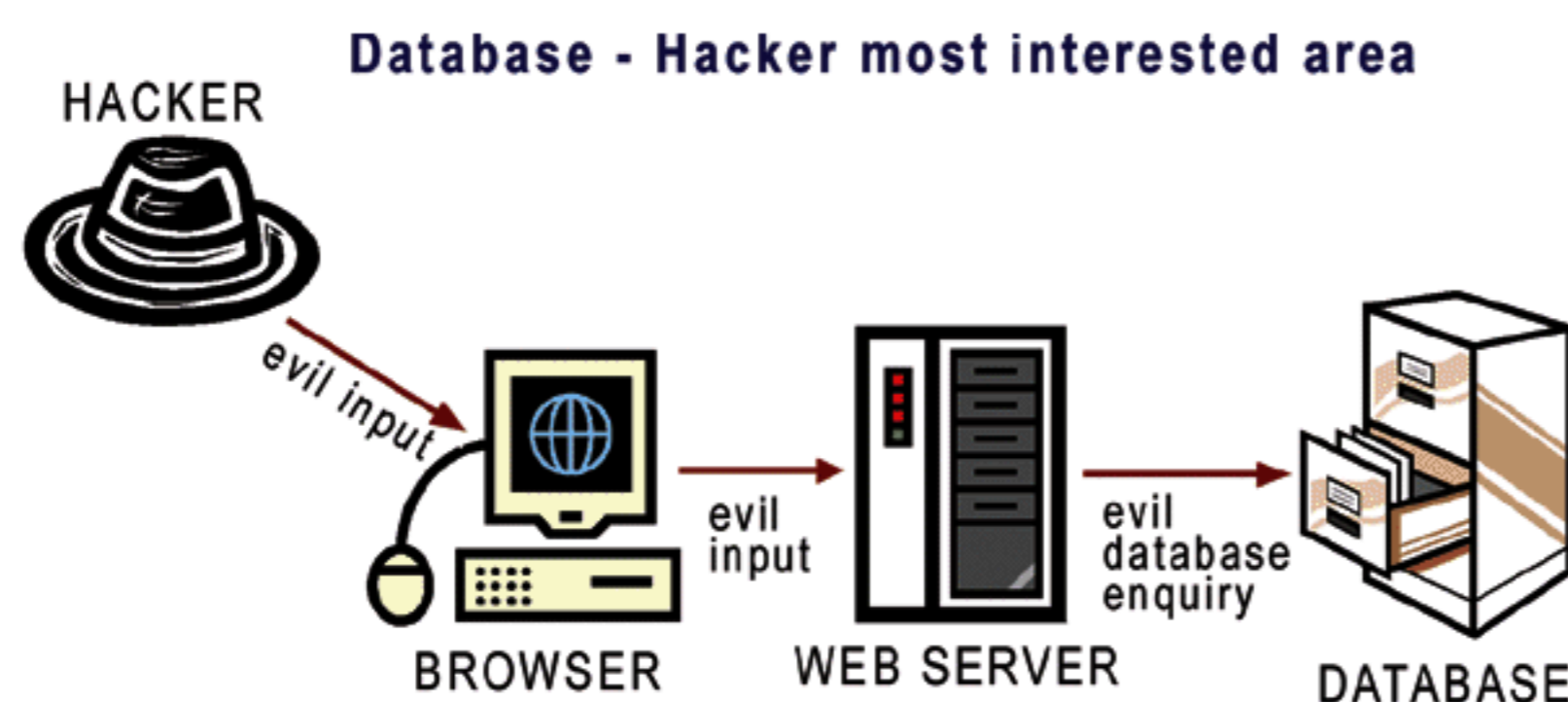
Web sites are accessible 7x24 and are often link directly to customer databases, and. That is why hackers become highly interested and concentrating their efforts on it.

HiTRUST Web Security Health Check Service helps you to defend your web site from attacks like SQL injections, Cross Site Scripting, and security loopholes such as backdoors, un-patched software and other ways hackers can compromise your web site and web application.

The Web Security Health Check Service take care two layers of security:

- Network level security - eliminates configuration problems and identifies known vulnerabilities on the network.
- Application level security - ensures no vulnerability of web application, which mostly connects to important database.

No additional hardware and software deployment is required. The best practice to maintain your web site and application in a good health is to health-check them annually.



Cause:
Unauthorized information access or
deteted records

Key benefits

>> Away from Risk

Most security breaches are targeting at known vulnerabilities for which countermeasures exist. Regular check against the vulnerabilities can lower the risk definitely.

According to a Gartner's survey, almost 75% of all Internet assaults are targeted at Web application.

>> Regulation Compliance

Various reporting formats that conform to industrial regulation compliance requirements are available.

>> Maximized ROI

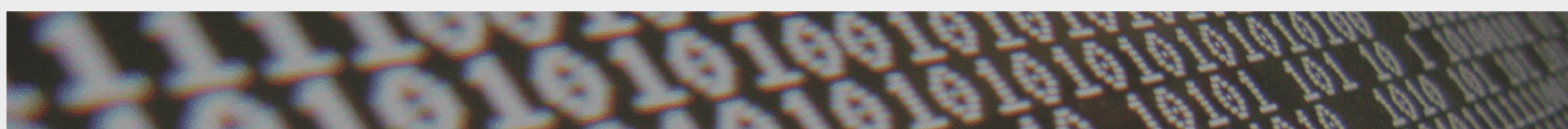
Ensuring the compability of configuration among your security setup maximizes their productivity on protecting the network.

>> Database Protection

Web server and Web application are always further connected to important database like customer records. Hacker retrieve database via vulnerabilities on the application layer and network layer.

>> Zero-time Deployment

No software and hardware installation is required for Health Check Service. There is no startup investment. The service is provided under the supervision of professional consultants.



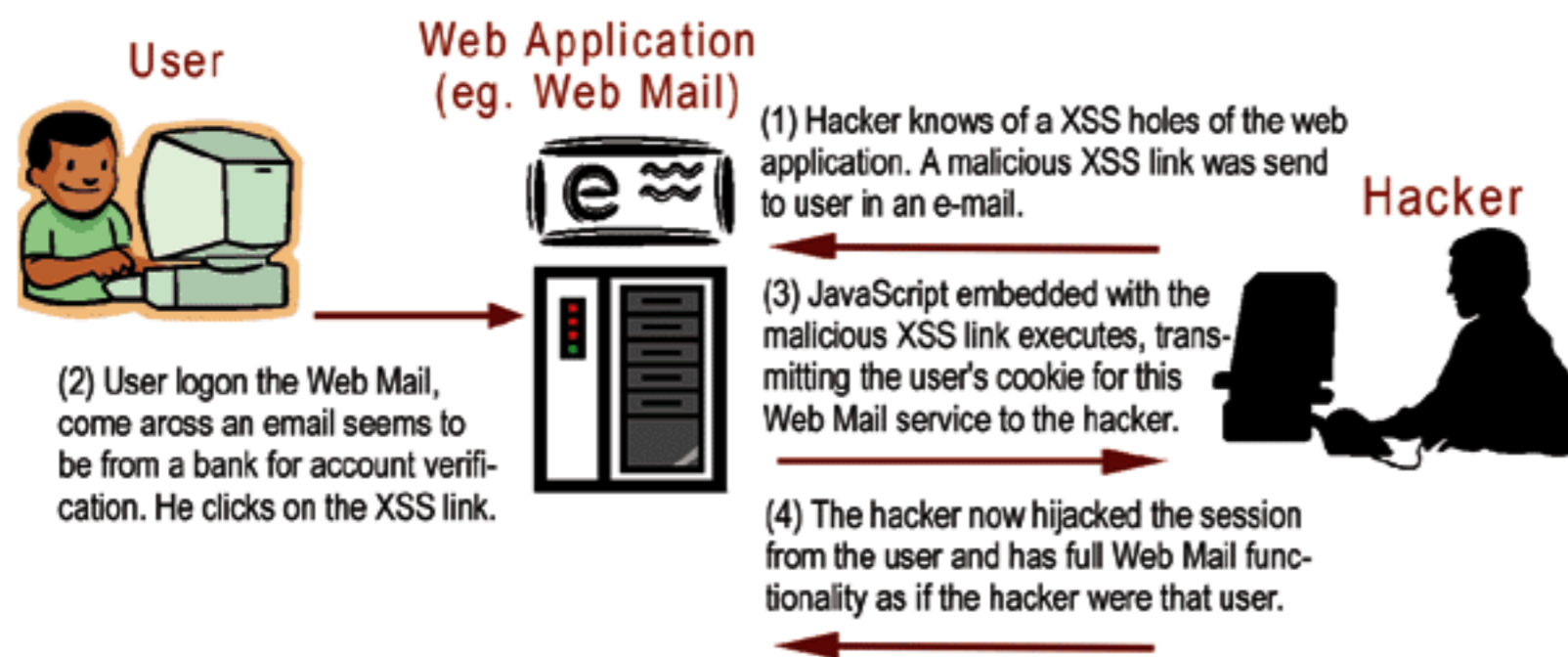
HiTRUST web security

HEALTH CHECK

Popular Web Application Attack

- **Cross-site scripting** ('XSS' or 'CSS') is an attack that takes advantage of a Web site vulnerability in which the site displays content that includes un-sanitized user-provided data. For example, an attacker might place a hyperlink with an embedded malicious script into an phishing e-mail. That purpose of the malicious script is to attack e-mail recipients/users who happen to select the hyperlink. For example it could copy users' cookies and then send those cookies to the attacker.

Typical Cross-Site Scripting (XSS) Attack



- **SQL injection** is a technique used to take advantage of non-validated input vulnerabilities to pass SQL commands through a Web application for execution by a backend database. Attackers take advantage of the fact that programmers often chain together SQL commands with user-provided parameters, and can therefore embed SQL commands inside these parameters. The result is that the attacker can execute arbitrary SQL queries and/or commands on the backend database server through the Web application.

Construct SQL queries based on user-provided input

```
SELECT UserID, Password
FROM Records
WHERE
NAME = ' + name + ';
```

If name is user-controlled - danger, danger !!

Set name to

```
bob
bob' --
bob' or 1=1
bob';
DROP Records; --
```



Resulting SQL

```
WHERE = 'bob'
WHERE = 'bob' --'
WHERE bob' or 1=1 --'
WHERE bob';
DROP Records; --'
```

User ID

Password

[SIGN IN >>](#)

Contact Us

To evaluate HiTRUST Web Security Annual Health Check, please contact us at:

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You may also visit us at www.HiTRUST.com.hk for more information

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