ModSecurity: Embeddable Web Application Firewall

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Web Application Firewalls because...

- Most applications deployed today are insecure because the average developer is still not trained well enough.
- Web applications are inherently insecure because of the way they came to be.
- So, basically, we need any help we can get...

Introducing ModSecurity

An open source web application firewall I started as a hobby back in late 2002:

http://www.modsecurity.org

- Quite popular, with usage rising steadily.
- Commercially licensed and supported through **Thinking Stone**.

Positioning ModSecurity

- There's a limit to where being open source can take us - we need a good selling point.
- It's embeddable. This may be interesting!
 - Most WAFs are appliance-based and work in network mode.
 - ▶ That's fine (ModSecurity can work in network mode too).
 - ▶ But I like my WAF to be embeddable because...

Embeddable Web Application Firewalls

- No need to change your network.
- Easy to add, even easier to remove.
- Very low overhead.
- As scalable as the systems they work in.
- Do not introduce a point of failure.

ModSecurity: Major Features

- Real-time traffic monitoring.
 - It's an IDS that understands HTTP really well and has no problems with SSL-encrypted content.
- Logging.
 - ▶ Log the entire traffic stream. Or choose exactly what you want logged. **Useful to determine if a** vulnerability has been exploited in the past.
- Just-in-time patching.
 - ▶ Patch web application vulnerabilities externally to reduce the window of opportunity.

(Mandatory disclaimer: problems should be properly fixed whenever possible.)

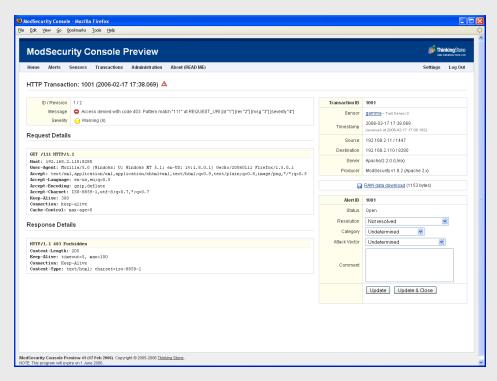
Product Range (1/2)

- Web server support:
 - ▶ Apache (1.3.x & 2.x) available now.
 - ▶ Java-based web servers late Spring.
 - Microsoft Internet Information Server (IIS) / Internet Security and Acceleration Server (ISA) - late Summer.
- Standalone option (when compiled with Apache 2.2.x and configured to work as reverse proxy).

Product Range (2/2)

■ ModSecurity Console - currently in private beta.

- Nice GUI.
- Support for real-time logging and alert management.
- Central management of all sensors.
- Advanced features for security analysts.



Questions?

Thank you!

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