

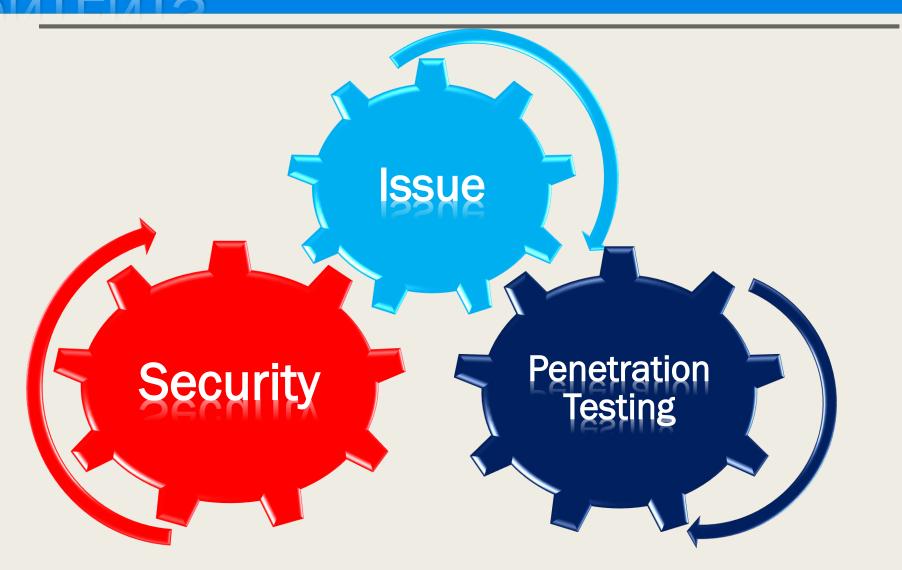
IT SECURITY AUDITING

Speaker: Chuyên gia An toàn thông tin - VCCorp

Huỳnh Ngọc Thông - thonghuynhngoc@vccorp.vn

Nguyễn Đăng Thứ - thunguyendang@vccorp.vn

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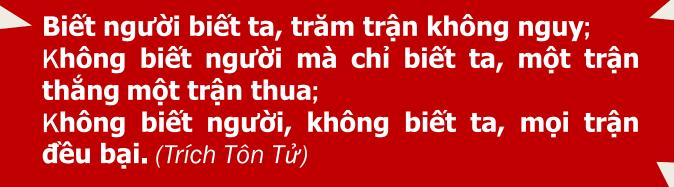


ISSUES



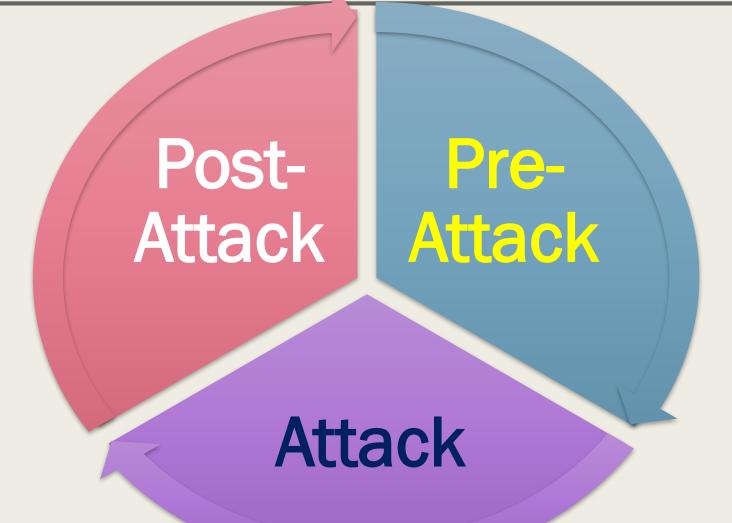
ISSUES











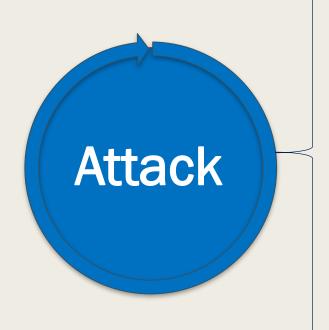
Planning and Preparation



Methodology designing

Network information gathering





Acquiring target

Escalating privileges

Execution, Implantation, Retracting



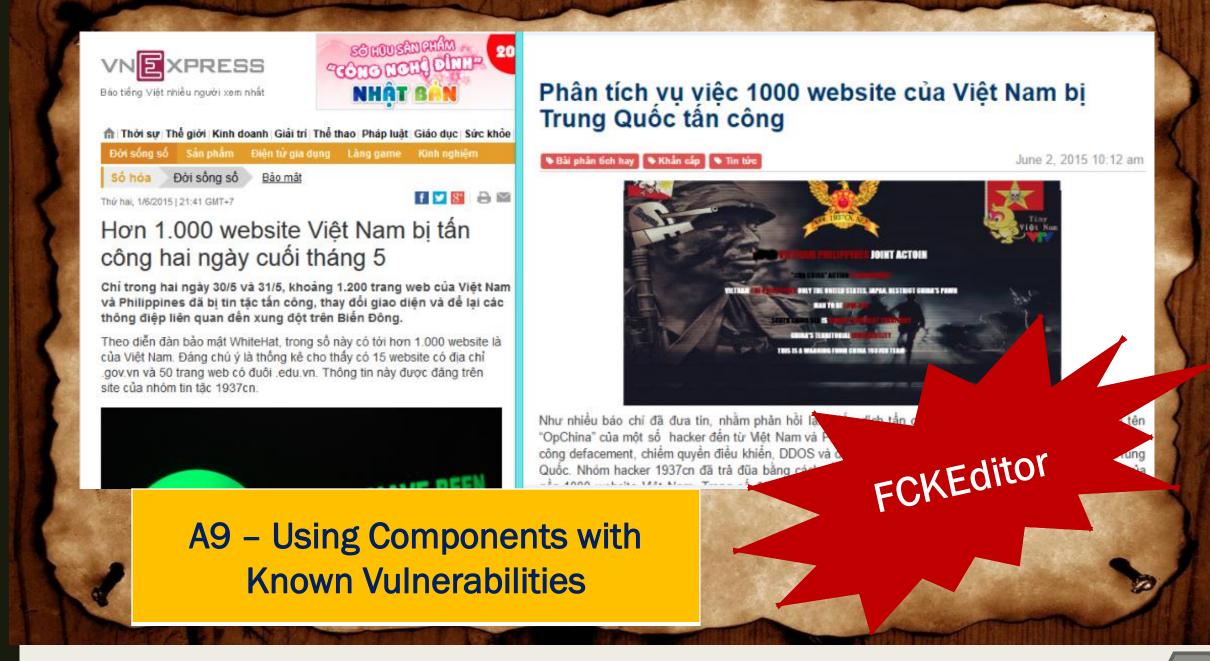


Clean-up

Arifact destruction

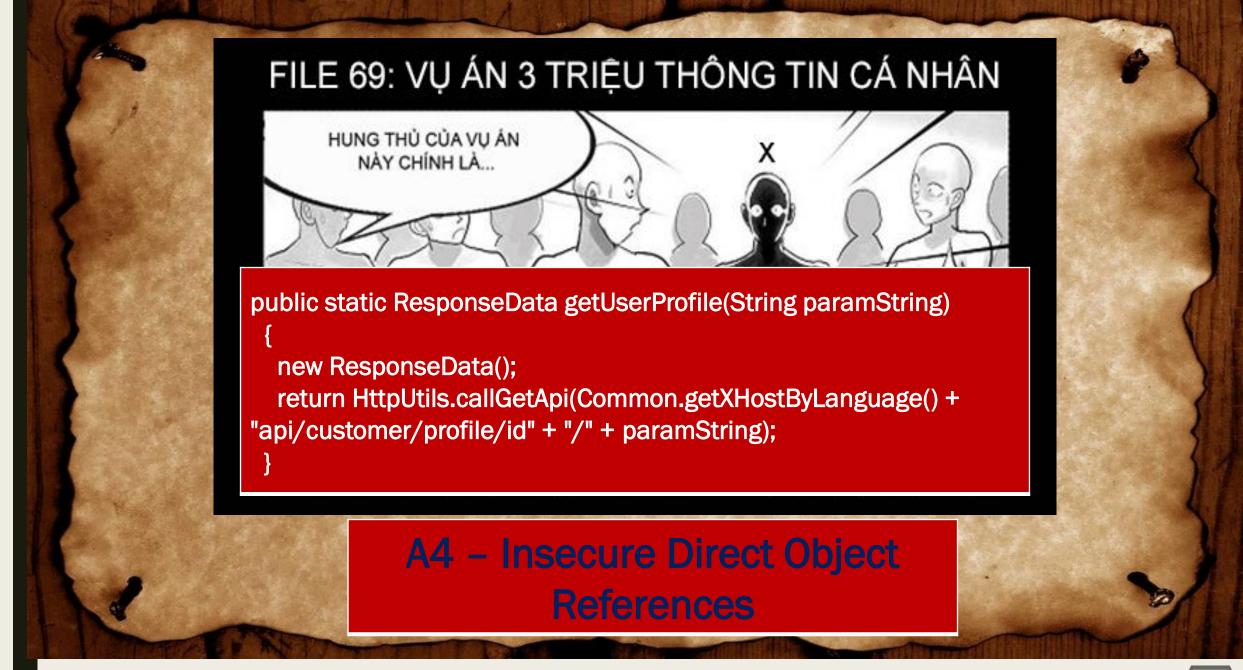
OWASP TOP 10

A1 - Injection	A6 – Sensitive Data Exposure
A2 - Broken Authentication and Session Management	A7 – Missing Function Level Access Control
A3 - Cross-Site-Scripting (XSS)	A8 - Cross-Site-Request Forgery (CSRF)
A4 - Insecure Direct Object References	A9 – Using Components with Known Vulnerabilities
A5 – Security Misconfiguration	A10 – Unvalidated Redirects and Forwards

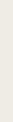














Configuration Policies



Privacy & Security



Checklists & Rating Scales

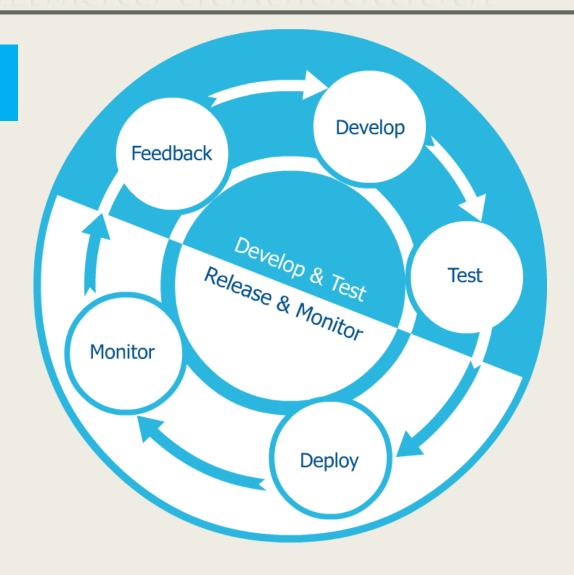


Web Security



Notification Security

Lifecycle

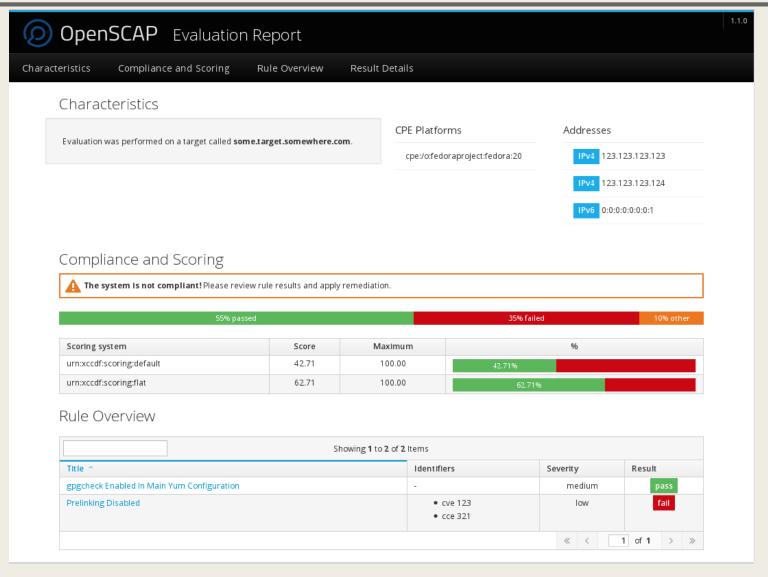




Configuration Policies

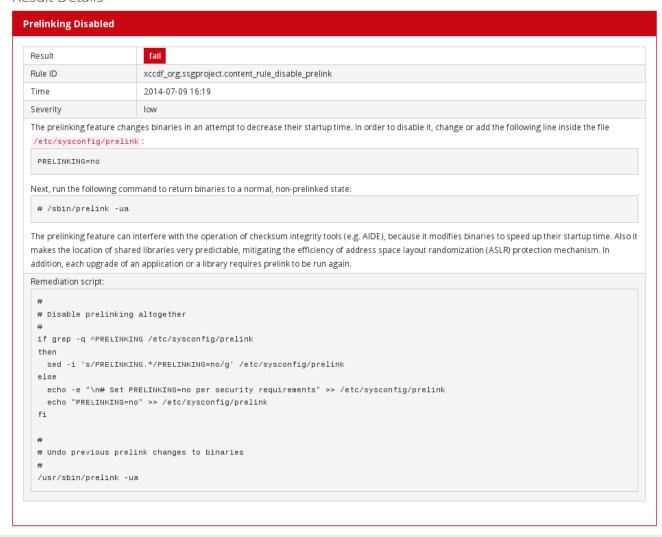
- CPE (Platforms)
- CVE (Vulnerabilities)
- CVSS (Scoring System)
- CCE (Configurations)
- XCCDF (Configuration Checklists)
- OVAL (Assessment Language)

Configuration Policies



Configuration Policies

Result Details



Configuration Policies

Rule ID	xccdf_org.ssgproject.content_rule_service_chronyd_or_ntpd_enabled
Result	pass
Time	2015-09-25T11:00:45
Severity	medium
Identifiers and References	identifiers: CCE-RHEL7-CCE-TBD references: AU-8(1), 160, Test attestation on 20121024 by DS
Description	The chronyd service can be enabled with the following command:
	\$ sudo systemctl enable chronyd
	Note: The chronyd daemon is enabled by default.
	The ntpd service can be enabled with the following command:
	\$ sudo systemctl enable ntpd
	Note: The



Privacy & Security

- Facebook Policy https://www.facebook.com/policy.php
- Google Policy https://www.google.com/policies/privacy/





Checklists & Rating Scales

- Joomla https://docs.joomla.org/Security_Checklist
- Wordpress https://codex.wordpress.org/Main_Page
- Magento https://magento.com/security/best-practices
- Closedsource or CMS ???



Checklists & Rating Scales

Item	Description
Secure the Login page	Lockdown the login page for repetitive failed login
	Activate 2 factor authentication
	☐ Use email address to login instead of username
	Rename wp-login.php file to another name (Optional)
	Remove login link from the theme (if there is any)
	Use a strong password containing upper and lower alphabet, number and special characters and at least 16 characters long
	☐ Change the password regularly
Protecting the Admin dashboard	□Password protect the "wp-admin" folder
	☐ Implement SSL for the WordPress Admin section
	☐Update WordPress to the latest version
	Create another administrator account and delete the default "admin" account
	☐ Create an Editor account and use it solely for publishing articles.
	☐ Install anti-virus plugin like <u>WordFence</u> , <u>WP Security Scan</u> , <u>Sucuri</u> , <u>VIP Scanner</u> , <u>Exploit Scanner</u>
	Scan the site for viruses, malware and security loopholes

Protecting the Theme	☐ Update the active theme to the latest version
	Delete and remove unused themes
	☐ Download and use theme only from reputable sources
	Remove WordPress version from the theme
Improving the Plugins	☐Update all plugins to the latest version
	Delete unused plugins
	☐Only install plugin from a reputable source
	Replace outdated plugins with alternative newer plugin
	Upload a blank index.html file to the plugin folder to prevent unauthorized viewing of your plugins
Protect the Database	Change the default table prefix
	☐Schedule weekly <u>backup</u> of the database and site
Web host Issues	☐ Hire a reliable and trustworthy web host
	Access your site only with SFTP (Secure FTP)
	Set all files to file permission 644 and all folders to 755
	☐ Make sure the <i>wp-config.php</i> file is not accessible by others.



Web Security

- W3C Security: https://www.w3.org/Security/
- P3P https://www.w3.org/P3P/
- Chrome: https://developers.google.com/web/
- Firefox: https://developer.mozilla.org/en-US/docs/Web/
- Backend Programming Language???



Web Security

- Platform: unies/windows
- Protocol: http, ftp, ssh, rdp,
- Database: oracle/mssql/mysql...
- WebUI:html, css, js, media, document,
- Programming language: adobe cfm/php/java/.net/rubyonrails/python
- Plugin: ...
- **■** Framework: ...
- Library: ...
- Opensource: ...



Notification Security

- Wordpress https://wpvulndb.com/
- Joomla https://vel.joomla.org/live-vel
- Magento https://magento.com/security/vulnerabilities
- Closesource or CMS???

THANKS FOR YOUR LISTENING!

