Hardening Project

a comprehensive security competition
for website hardening

http://wasforum.jp/hardening-project/

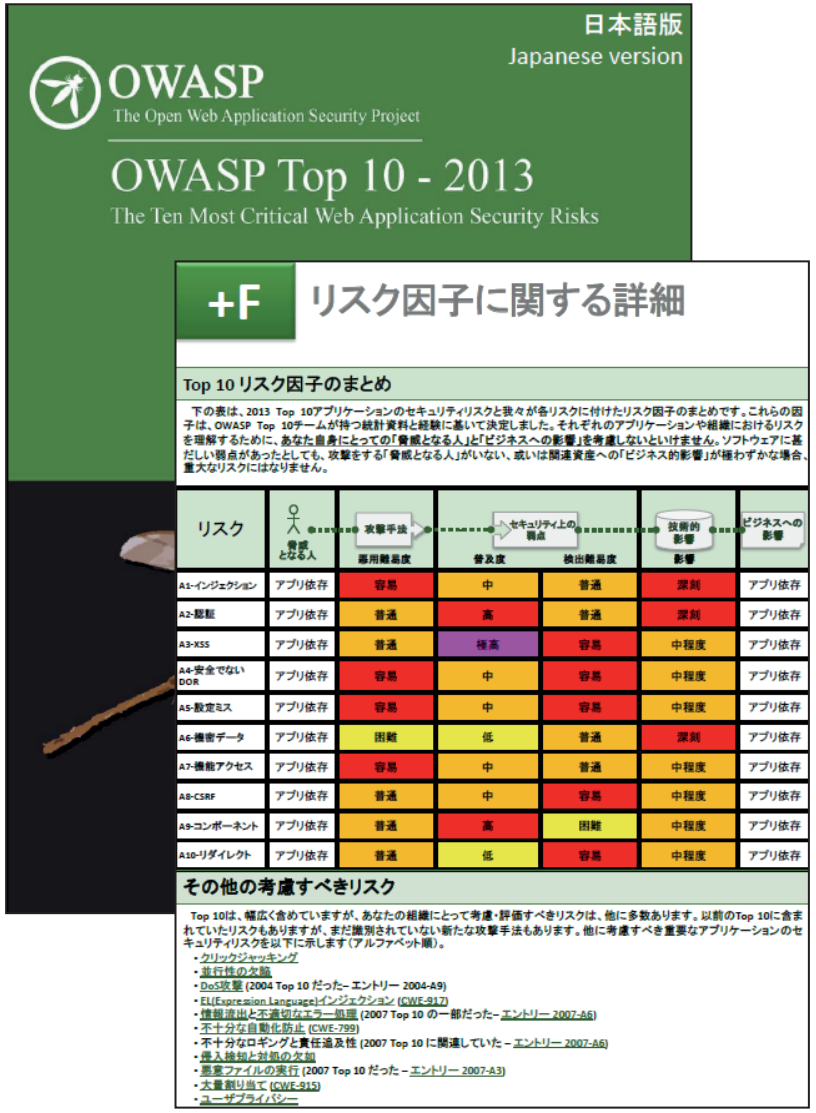
FACT: 3000 people / 2 years attended OWASP Night
Interest in Security in Japan is increasing greatly

FACT: Guidelines, documents, tools, frameworks… “Knowhow” necessary for security in high demand

e.g. **OWASP Top 10**

https://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project

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



FACT: Professionals in the following fields struggling with…

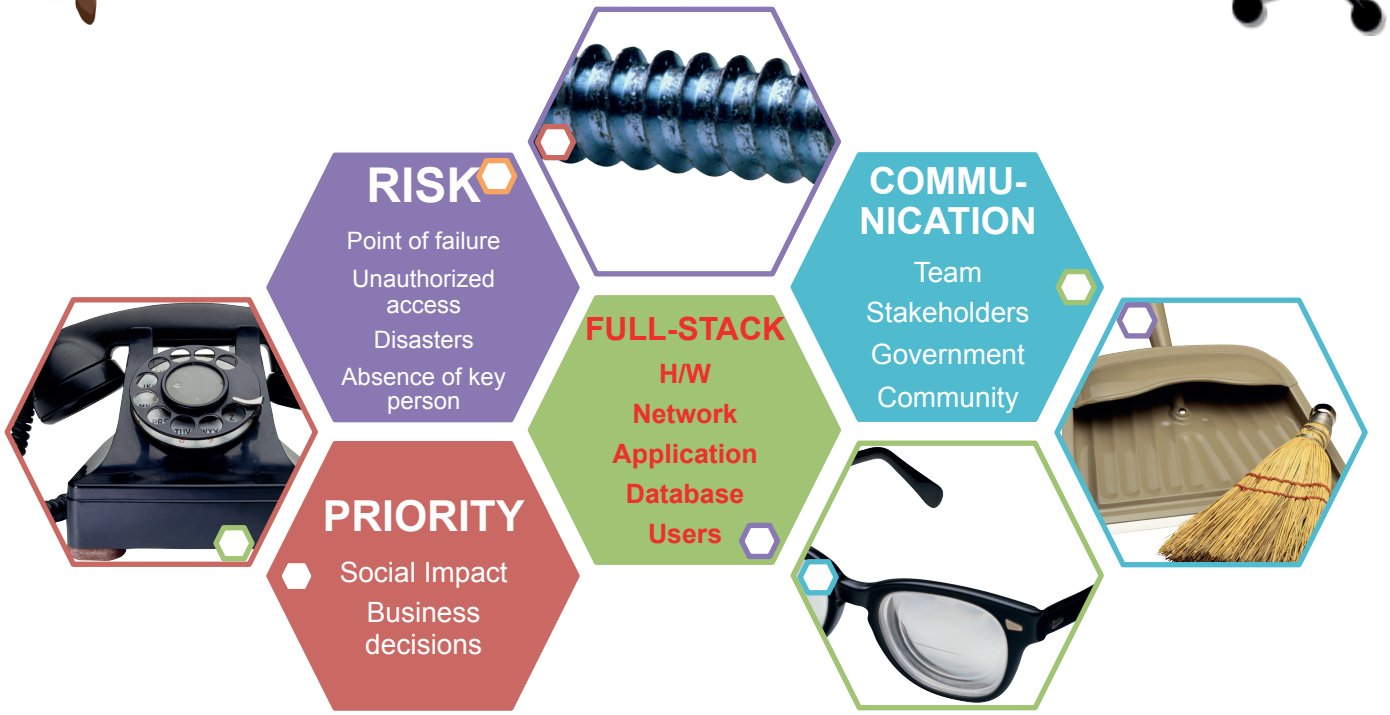
- **Systems operation**
- **Security incident response**
- **Web systems implementation**
- **Customer support**
- **Prospective workers in these fields (e.g. students, etc.)**

ISSUE: Who's actually dealing with Security
What do you have to say about Defenders' skills?

- Ability to correctly understand the condition of the system environment
- Ability to detect irregularities in system operations and security issues
- Ability to predict future security incidents and other potential risks
- Ability to quickly detect and deal with security incidents
- Ability to detect security faults and vulnerabilities
- Ability to repair vulnerabilities and mitigate risk
- Ability to implement effective security incident triage
- Ability to efficiently and effectively deploy team resources
- Overall ability and capabilities as well as skill set of the team
- Ability to effectively communicate with users and other stakeholders
- Ability to coordination among various departments in the organization
- Strong mental power and spirit to never give up no matter how difficult the challenge at hand is

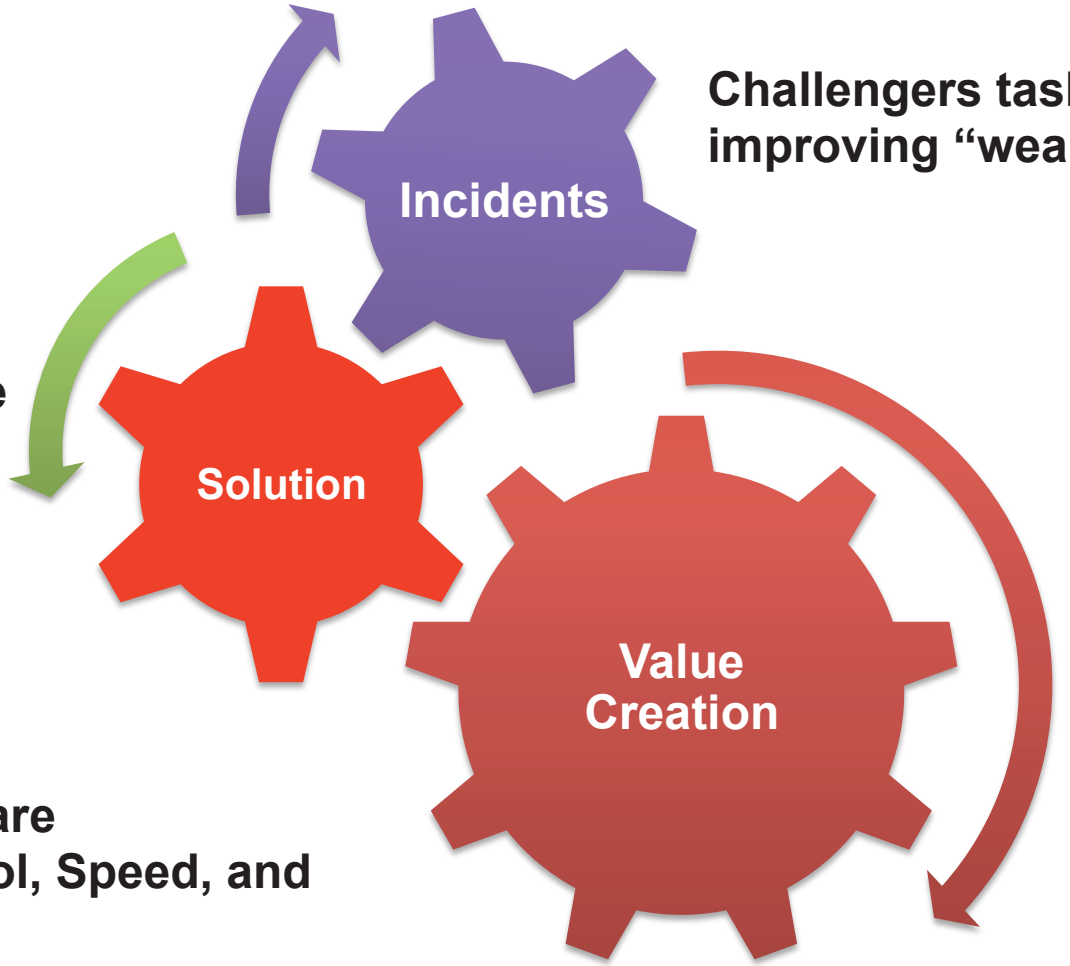
How many people do you know with these skills?

Knowledge needed for solving problems in systems operation isn't "Breaker skills" it's "Builder skills"



Challenge of technical decision making:

Effective and solid collaboration on individual incidents leads to development of strong problem-solving skills



Challengers tasked with improving “weak” EC site

Incident Response for 8 hours!

Team members share Skills, Process, Tool, Speed, and Communication.

What is the purpose of Hardening Project?

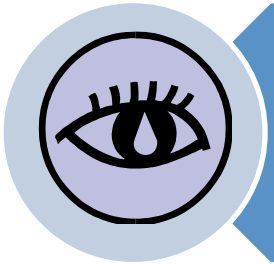
Discover and award collaborative minds with **defending skills.**

Service-BCP

Focus on prevention techniques and process

Discover DEFENDERS!

Engineering awards and talent discovery



From Users' point of view

Perspective for stakeholder communication

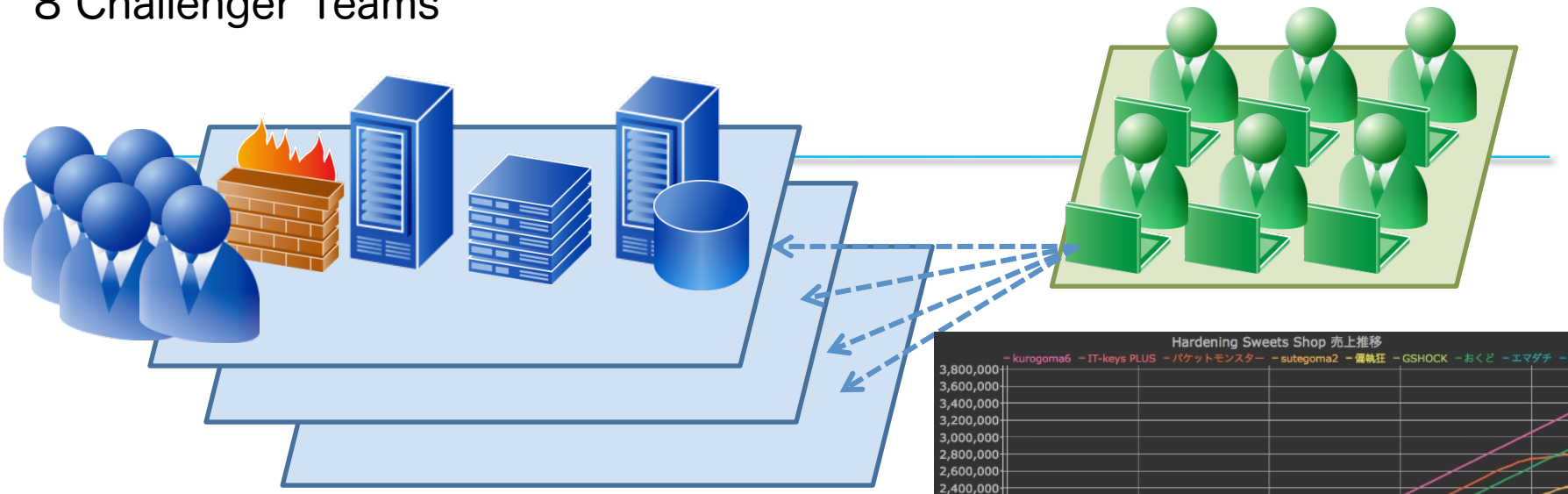
All of challengers will try to work with:

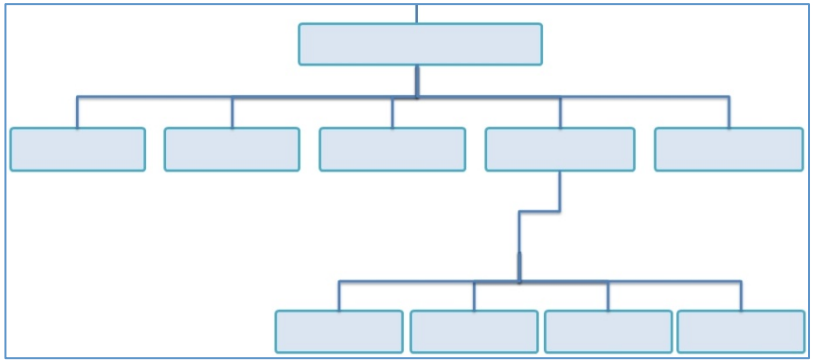
- New Talent
- New Team
- New Methodology
- New Approach
- New Process
- New Communication

And will achieve a **New Hardening Sense**.

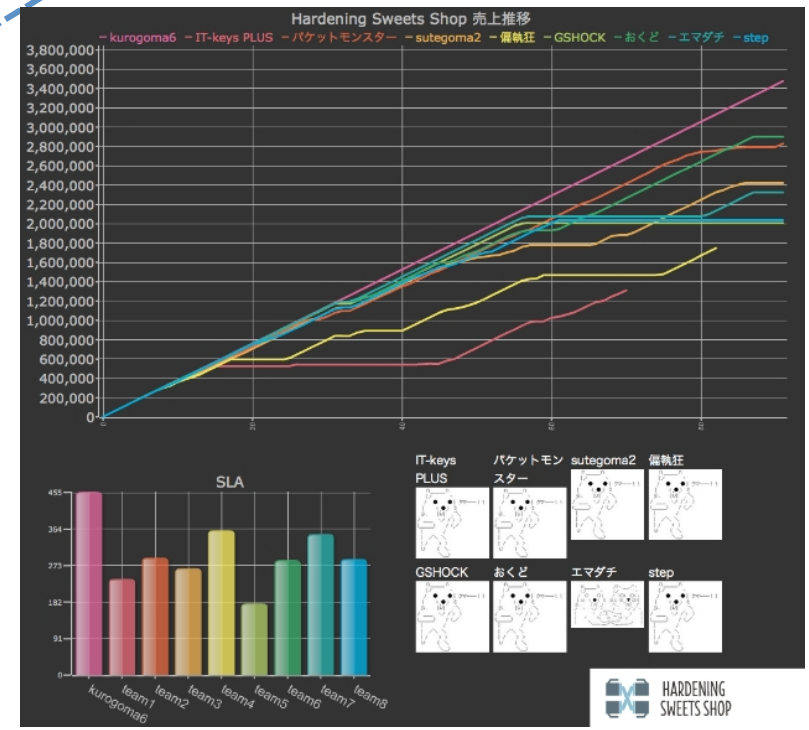
8 Challenger Teams

Attackers: kuromame6





Virtual E-Commerce Site and administration environment on StarBED (NICT)



Sales Competition for 8 hours

2012/4　Hardening Zero
2012/10　Hardening One
2013/7　Hardening One Remix
2014/6　Hardening 10 APAC
…

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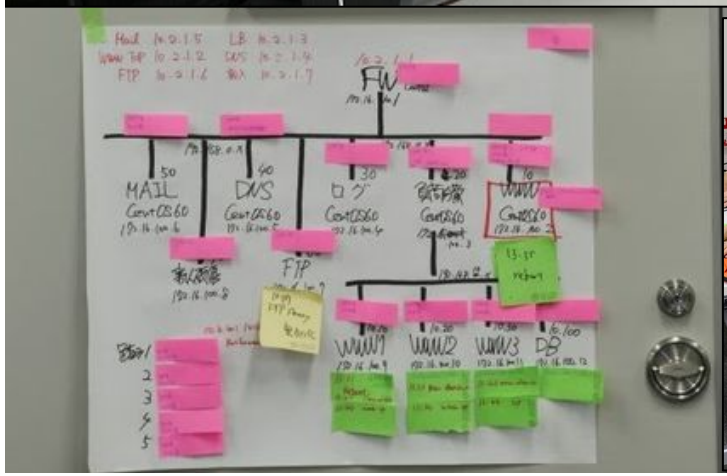


Thoughts and impressions from participants

Participant A
"Even with the same environment, same product and same attacks, there was a gap of 300% in revenue based on operational differences. This demonstrated the need for and importance of secure operations."

Participant B
"I gained a deeper insight into the importance of choosing which problem to prioritize and focus on given only a limited amount of time."

Participant C
"You can't allow a system error to occur in the production environment but going through bitter experiences in this controlled environment is a really valuable experience. "

Participant D
"In addition to the competition on Hardening Day, the reflection on Softening Day is also very important."

Hardening 2 Days Framework

1st Hardening Day

- **8 Hour Competition**
  - **“Kuromame 6”** with more incidents vs. **8 defender teams**
- **Live stream** with Online Conference

Networking

- Enjoy **cross-border communications** & unwinding

2nd Softening Day

- All teams present their **approach and challenges**
- Presentation from **“Attacker”**

Awards

- **Awards ceremony** for the Winner and MVPs

2014 expansion to APAC region

Hosting events in Naha, Okinawa

- **strategically located as a hub in the Asia Pacific region**

Hardening 10 APAC Jun. 2014

6 hour competition & presentations

Hardening 10 Evolutions Nov. 2014

2 day conference & workshops

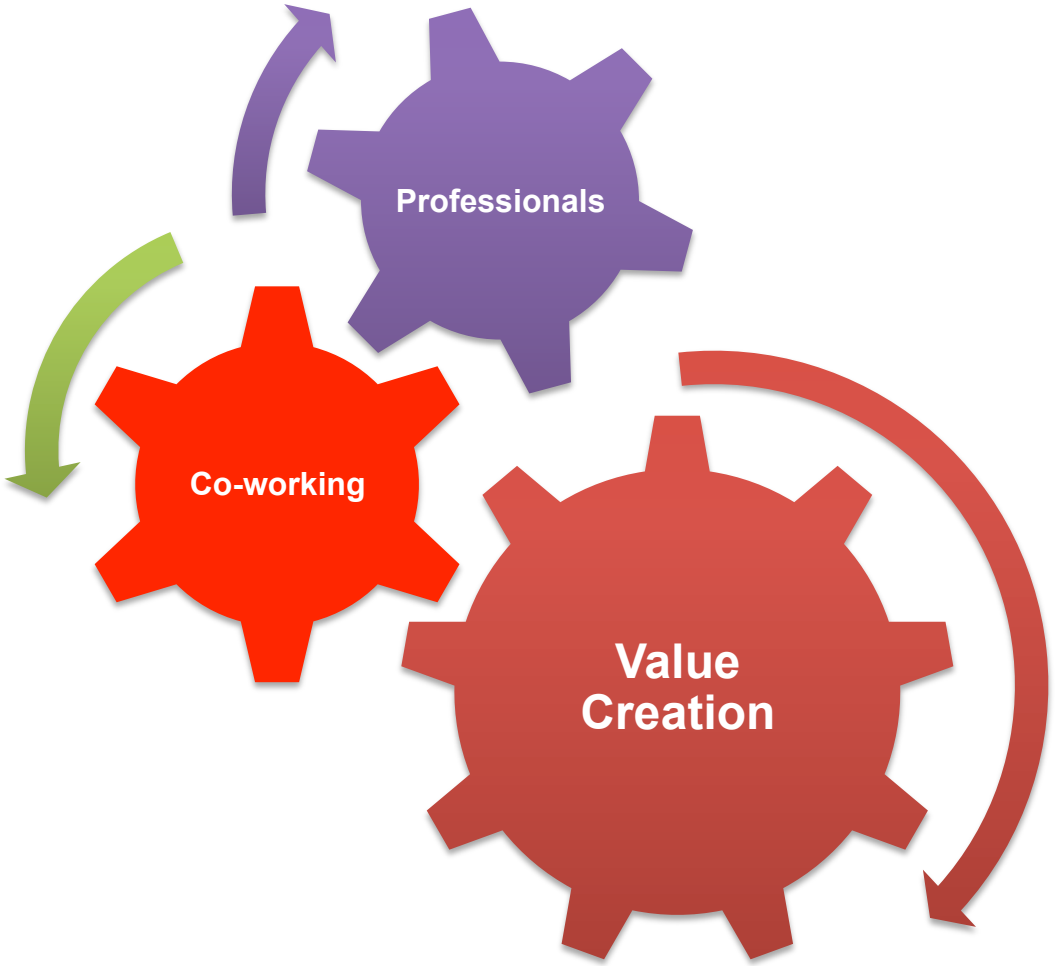
idea-thon, hack-a-thon

& presentations

DETAILED INFORMATION

http://wasforum.jp

Competition meets Collaboration



Web Application Security Forum

Hardening Project

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