



OWASP

The Open Web Application Security Project

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May 2012

Notes from the Editor

Deepak Subramanian

We thank you for the overwhelming response for the previous newsletter. The submission of articles has also improved greatly. We would however like to encourage a much higher number of submissions to the newsletter.

This is a call for papers and articles for the next quarterly issue due in July 2012.

The submission can be done as a complete article or in stages.

The preferred timeline for submission in stages is as follows:

1. Submission of abstract – 15th June 2012
2. Submission of First Draft – 30th June 2012
3. Review and submission of final draft – 20th July 2012

If you plan to submit as a complete article, the final deadline for submissions is set at 15th July 2012.

Any submission that is done beyond these deadlines will be taken into consideration for the September Newsletter.

The OWASP Newsletter aims to have many research publications and we welcome research articles with a great deal of enthusiasm.

Any suggestions and changes to making this Newsletter better are appreciated.

Email: deepak.subramanian@owasp.org

OWASP AppSec Asia 2011

Helen Gao, China AppSec 2011

The OWASP AppSec Asia 2011 was successfully held in Beijing, Nov 8-11, 2011. This four day event consists of two-day conference and two-day trainings. More than four hundred people from over ten countries attended the event. OWASP Board member Sebastien Deleersnyder kicked off the conference with a call for action to participate in OWASP and contribute to a safe computing ecosystem. The topics of discussion cover many areas of application security, including cloud security, database security, encryption, secure software development, RFID security, and mitigation of XSS and other threats. Dr. Liping Ding, Dr. Frank Fan, Cassio Goldschmidt, Tobias Gondrom, Mano Paul, Wei Zhang, Dr. Meng-Chow Kang are among the speakers and trainers. During the OWASP leader workshop led by Global Chapter Committee chairman Tin Zaw, leaders from China, Korea, Malasia and Indonasia shared their experience and ideas with those from the United States and countries from Europe and South American. This is the third year that the China chapters hosted a large scale OWASP event. For the first time, the event featured a formal product exhibition where fourteen vendors had participated. Seven media companies from inside and outside of China had covered the conference. This gathering also celebrated the tenth anniversary of OWASP, as well as the enormous growth of the OWASP network especially in Asia Pacific region. The registered members of the China chapters has increased four hundred percent last year to more than eight hundred people.



Conference Venue



Exhibition



Exhibition



Exhibition

- 2. On the Server,
- 3. and between the Client and Server

Each of these environments presents the opportunity for security vulnerabilities to slip into your application. Attempting to build a custom state management solution that addresses all three environments is incredibly challenging and wrought with pitfalls that could snare even the most seasoned engineer. Questions like, how am I going to persist control settings between the client and server, or how can I prevent an attacker from replaying malicious state on a valid user's account can lead to a mine field of threats, counter measures and compensating controls. A common and high impact risk for application security, according to the OWASP Top Ten, is Broken Authentication and Session Management which directly involves developers trying to build custom session/state management solutions but in the end only contributes to their application's security issues (OWASP Top Ten Team, 2011). Custom session/state management solutions might address the immediate needs of an application but often are not comprehensive in covering topics such as associating session/state with authentication so that when a user logs out, their session information is disposed. In the end, with the constraints of project time and budget, custom state management solutions can cause more security issues than they resolve.

Fortunately there are numerous development frameworks with state management solutions that have been widely tested and deeply examined. ASP.NET provides a robust state management solution. Depending on your understanding, state management in ASP.NET can be complex and confusing or simple and reliable. This article will help you to understand View State and the plethora of other tools at your fingertips for remembering information about your users. As we explore each state management tool, we will examine some of the vulnerabilities it introduces as well as counter-measures to protect your system.

Client Side State Management

With Client Side State Management, the client maintains state information sending it to the server with each request. Figure 1: Sample client side state management model (Northrup & Snell, 2010, p. 121) illustrates a sample client side state management solution for a corporate reporting application. The user has subscribed to two reports and set their personalized design theme to "SPRING". This is transmitted to the server with each request to be consumed and processed.

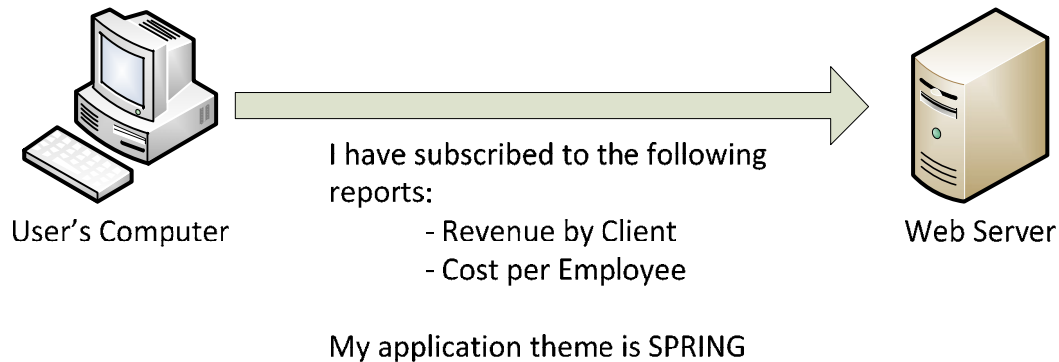


Figure 1: Sample client side state management model (Northrup & Snell, 2010, p. 121)

Using client side state management allows for scalability in your applications. As the data resides on the client system, server memory can be used for processing instead of data storage. While this solution can provide increased scalability, you pay by exposing state data to the client machine. This introduces the first attack we will explore that is common to all client side state management solutions: *Parameter Manipulation*. Malicious users can modify parameters stored on the client to abuse the trust the system has with the client (Meier, et al., 2003). Examining Figure 1: Sample client side state management model (Northrup & Snell, 2010, p. 121), consider if a malicious user modified what report they are to receive and the server system did not validate the user had permission to the resource. The malicious user would then have access to a resource that they do not have permission to, violating the confidentiality of the resource. Parameter Manipulation will be a reoccurring topic when examining the client side state management tools offered by ASP.NET. Each control offers unique concerns and solutions for this attack.

ASP.NET offers a variety of client side state management tools including:

- Query String parameters
- Hidden Fields
- Cookies
- View State
- Control State

Regardless of the tool that you use, the golden rule of Client Side State Management is to NEVER store sensitive information on the client (Meier, et al., 2003). Storing information like the font-family to use for a control is fine, but storing credit card information, personal health records, or anything else that is considered sensitive should remain on the server. On this same note, do not store information that is needed for making security decision on the client. Using Parameter Manipulation an attacker can elevate their privileges or perform unauthorized actions if the application relies solely on parameters stored on the client.

Query String Parameters

Using HTTP GET parameters, ASP.NET can pass data from the client to the server through the query string. As an example, in the following URL I can pass my product ID to the product details page:

<http://some-e-com-site.com/product-details.aspx?id=9>

The product-details.aspx page can then load the id parameter using the following code:

```
int prodId = Convert.ToInt32(Request.QueryString["id"]);
```

Query String parameters are ideal for small amounts of data as many browsers restrict the URL length to just under 2,100 characters (Northrup & Snell, 2010). Passing identifiers, abbreviations, etc... Another use for Query String parameters is to permit users to bookmark requests for specific requests. For the above example, a user can send the URL to a friend to directly view product id nine or a user can quickly return to this address to see the product details again.

A malicious user can easily modify query string parameters through their browser (or HTTP request transmission tool). Query String parameters are the first state management solution explored as they are the easiest example of Parameter Manipulation. When using a Query String parameter, start with the following questions:

1. What are the boundaries of this value? What is the max possible value? What is the minimum possible value?
2. What if someone passes in something I'm not expecting?

These are standard input validation questions. The first represents boundary testing. For our URL example:

<http://some-e-com-site.com/product-details.aspx?id=9>

What will happen if id=-1? Will the system crash, find nothing or display a message saying "id" is not a recognized value? Query String parameters make it very easy to manipulate parameters using tools like Fiddler (<http://fiddler2.org>) or Hackbar (an excellent Firefox extension by Johan Adriaans). Establish acceptable boundaries around data points and ensure that incoming data conforms to those boundaries. As an example, if some-e-com-site.com only has ten products (id 1 through 10) your application does not need to support an id number greater than ten or less than one.

Question #2 above is an example of Equivalence Partitioning. This testing technique groups input into blocks of data that attempts to minimize the number of tests that need to be done. As an example, one Partition could be alpha characters. If I pass in id=A, and the system crashes due to the alpha character, I do not have to test each letter of the alphabet to verify that the system will crash. Partitions can be data outside of known boundaries (such as id=11 or id=0 when we only have id 1 through 10). By entering in data for other partitions, as a security test, we want to make sure that the system maintains expected behavior and does not leak information or show a Yellow Screen of Death (YSOD).

To protect our system, we can leverage the defense in depth by passing the data through various checks prior to actually using it. Specific to ASP.NET and C# (or VB.NET) you can use the `tryparse` method to validate the provided data conforms to the data type to which the value will be cast. If the value provided can be cast as the expected data type (in this case int), the method returns true. Unlike the `parse` method, `tryparse` does not throw an exception if the value cannot be cast. Many data types support `tryparse` in C# (such as bool, DateTime, decimal, etc...) allowing developers to check data types and maintain the flow of their application without an exception. Here is a simple validation of data using `tryparse`:

```
if (Request.QueryString[«id»].Length < 3)
{
    int prodId = 0;
    if (!int.TryParse(Request.QueryString["id"], out prodId))
        displayMessageToScreen("Product Id must be a recognized value.");

    if (prodId < 1 || prodId > 10)
        displayMessageToScreen("Product Id is not in a valid range.");
}
```

This code first checks to validate that the value of `Request.QueryString["id"]` is no more than three characters long. This will avoid receiving values larger than a two digit number. Next we check to see if `Request.QueryString["id"]` can be cast as the int data type for C# (which is an `Int32`). If the value can be cast as an int, the value of `prodId` is set to be that of the `Request.QueryString["id"]`. If the value cannot be cast, the `displayMessageToScreen` method executes which shows a friendly error message to the user (avoid the YSoD and throwing errors whenever possible, throwing is expensive from a memory perspective and the YSoD makes your site appear broken). Next we confirm that the value is in the expected boundary, again displaying an error if the value is less than 1 or greater than 10. This is a simple example but conveys the idea of how to use `tryparse` to check whether a value can be cast and then applying simple input validation to maintain our boundaries.

Hidden Fields

A long time ago I was talking to a developer who said that their data was secured because they stored it in hidden fields. Since the user could not see them, the data was secure. Unfortunately this is extremely incorrect. The data might be safe from a non-snooping, non-malicious, non-curious user but always remember that software is a tool and people like to tinker with their tools. To this end, believing that Hidden Fields provide security is subscribing to the "Security through Obscurity" fallacy.

Hidden Fields are HTML input tags with the type of "hidden". This prevents the tag from rendering as part of the web page layout but can easily be found by viewing the source for the html page. ASP.NET Hidden fields are built using the HiddenField control, which renders as an input type="hidden" tag:

```
<asp:HiddenField ID="hdn1" runat="server" Value="Some String Value" />
```

Renders as:

```
<input type="hidden" id="hdn1" name="hdn1" value="Some String Value" />
```

The strength of Hidden Fields can be found in passing non-user friendly data back to the web page (such as a GUID) or as a data container to be used for an Ajax application that will eventually be passed back to the server in a Postback. Hidden fields can be accessed (read/write) via JavaScript making them an ideal bridge to pass data back to ASP.NET from the client for an Ajax enabled page.

Besides being aware of the parameter manipulation attack, developers need to know that hidden fields do not offer any protection for the data stored in them. The value of the field can be exposed simply by viewing the page source. Using an HTML hidden field places the responsibility on the developer to ensure the data provided is managed properly. Some developers have built very interesting client side encryption systems (jCrypt by Daniel Griesser is very interesting and easy to implement) which could be used to encrypt the data in the hidden field. You can build some regular expression checks on the data, but again, you are on your own for this.

One of the great strengths of ASP.NET are the Validation controls. Using the RequiredField control you can ensure that a value is provided, or using the CompareValidator you can ensure that the provided value conforms to parameters of other controls. Unfortunately, the ASP.NET validation controls do not work with the HiddenField control. All validation of hidden fields needs to be done manually. When dealing with hidden fields ensure that you are using proper input validation to keep the data safe while moving through the system. Avoid making security decisions based on any value in the hidden field and always replicate any security checks on the server against hidden field data.

Cookies

Cookies have been around for a long time on the web. Their implementation is almost ubiquitous on the web as sites leverage them for storing advertising campaign information, customer id, favorite color, the possibilities are as unique and endless as the many applications that spot the web. Unlike Query String parameters and Hidden Fields, Cookies can live long after the page is closed. A cookie's lifetime is defined during the creation process.

```
HttpCookie cookie = new HttpCookie("roles");  
cookie.Value = "Access Maps, Access Reports, Access Reports";  
cookie.Expires = DateTime.Now.AddMinutes(30);  
Response.Cookies.Add(cookie);
```

In the code, line three dictates that the cookie will expire in thirty minutes from now (the current date and time). The value of the cookie can be any string value (which could be a serialized XML object, JSON object or string representation of some other data type). Being that a cookie can store anything, you are only limited by your imagination and a very small file size (4kb). Cookies are saved to the client system as a small text file that is only available to the website that created it. HTTP Headers transfer cookies from the client to the server making their data available to the server side C# as well as client side JavaScript.

Like all client side state management solutions, cookies are susceptible to parameter manipulation. As the data is stored only in a text file, unencrypted by default, the content can be viewed, manipulated and saved for the next connection. With their transmission in the HTTP header, Cookie values can be manipulated in transmission with a tool like Fiddler or OWASP's ZAP. A specific manifestation of parameter manipulation is manipulating a Role Cache. Sometimes a developer will cache a list of Roles to which the user belongs in an effort to reduce database communication for each time the system needs to authorize access. While on the surface this might seem like a great caching solution, a modification to the cookie can modify the user's Role membership. As an example, in our sample cookie above imagine changing the value of the roles cookie to be "Admin", "Administrator" or various other synonyms for administrator access. If the application recognizes one of these roles and does not validate the value, the user can elevate their privileges in the system.

Another vulnerability facing cookies is Hijacking Cookies. This is when a malicious user steals the cookies from a legitimate user. Hijacking Cookies is often the de facto illustration of a Cross Site Scripting (XSS) attack with more impact than flashing an alert message. With just a few lines of code you can return the cookie content as output to malicious code:

```
$(document).ready(function () {  
    $("#btn").click(function (e) {  
        _stealTheCookie(document.cookie);  
    });  
});  
  
function _stealTheCookie(val) {  
    $("#output").html(val);  
}
```

While cookie theft might not matter when storing simplistic information like the user's color preferences, it is critical when the developer stores sensitive information in cookies. As mentioned previously, never store sensitive information in any client side state management solution. Even when encrypting the data, anything stored on the client's machine is in a hostile environment and open to exposure.

Finally, look again at the malicious code for `_stealTheCookie`. It displays the value of the cookie as HTML to the browser. We know the cookie will save to the system as:

```
roles=Access Maps, Access Reports, Access Reports
```

What if I alter the `cookie.value` to be:

```
cookie.Value = "<iframe src='malsite.com'></iframe>";
```

This would render an `iframe` to the browser and through some creative CSS can lead to a very convincing site replacement. While the user believes they are interacting with the legitimate site, they are in fact interacting with `malsite.com`. Again, always validate input in your application and sanitize data going out to the user.

View State

Of all the State Management solutions used in ASP.NET, View State might be the most prevalent...and least understood. By default, every ASP.NET web page carries with it a hidden field called `__VIEWSTATE`. This field contains a base-64 encoded value that represents the state of all the controls on the web page. View State can be very small or very large depending on the complexity of the controls on the ASP.NET page. Here is a sample of the `__VIEWSTATE` hidden field:

```
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="//wEPDwULLTEyMTE3OTJkZPmGU1lm0YsgU53Toeaoeoa92zZLCje8JDdoOSpwDe1dD/" />
```

Many developers see the value and assume a level of "encryption" due to a lack of knowledge about View State. Just like any other hidden field, `__VIEWSTATE` does not provide any default protection to prevent users from reading the contents. View State's purpose is to store information about web controls such as the value provided by a user between postbacks. This reduces the code a developer needs to write to repopulate all fields after a trip to the server and is more a tool of convenience than a security control. In many code samples I have seen custom controls (ascx controls or custom control libraries) using View State as a dumping ground for all types of data including entire datasets. The golden rule of client side state management applies to View State and must be remembered when building ASP.NET controls: Never store sensitive information on the client (Meier, et al., 2003). In the case where you encounter someone's code that has not followed the golden rule, ASP.NET can encrypt View State by setting the `Page.ViewStateEncryptionMode` to true. Using this property, ASP.NET will handle all the encryption and decryption of View State data. Like all encryption, the complexity of data can impact performance and so this option should only be used when you cannot keep sensitive data out of View State.

While data is not encrypted it is signed to ensure that View State is not modified on the client computer. By default, ASP.NET signs View State with a machine authentication code (MAC) using the `MachineKey` algorithm and provided in the `web.config` file. If the MAC value computed on the server does not match what came from the client, an exception is thrown preventing the application from processing the View State further. While the MAC can prevent modification of the View State value, it does not prevent a malicious user re-submitting the View State at a later date. This is known as a *View State Replay Attack* (Baier, 2006). By capturing a valid View State through properly using your web application, attackers can craft a malicious View State for another user. The crafted View State can then be submitted by the victim through another attack such as Cross Site Scripting (XSS [https://www.owasp.org/index.php/Top_10_2010-A2]) or Cross Site Request Forgery (CSRF [https://www.owasp.org/index.php/Top_10_2010-A5])). Using a View State Replay attack, victims can submit maliciously crafted requests to a web application that will appear as legitimate traffic. Fortunately, this is very easy to mitigate using the `Page.ViewStateUserKey` property. All ASP.NET pages have a property called `ViewStateUserKey` which allows the developer to place a unique seed into the View State that ties the value to a unique piece of data. Often, `Session Id` (from the `Session` object that we will examine further in the Server State Management section) is used to tie View State to a specific user session. Whether you use the `Session Id`, `Username` or hash of both, the key to `ViewStateUserKey` is to use some data that is available to the server and is unique to the user. Using the following line of code, you can assign the `ViewStateUserKey` to the `Session Id` of the user:

```
Page.ViewStateUserKey = Session.SessionID;
```

Later we will examine how `Session Id` can be hijacked which could lead to an attack circumventing this control. Consider the level of security your application needs when building your `ViewStateUserKey`. Is `Session Hijacking` a likely attack? Can you use another piece of data such as the `username` or a value in the user's `Profile` (we will examine `Profiles` later as well)?

Another common mistake that developers make is to assume View State is safe. View State should be treated as another input field just like a text field when dealing with the values and contents. While the View State MAC can provide a level of protection against malicious external users as developers we need to build our components to protect against the insider threat as well. A disgruntled developer could build malicious components that inject vulnerabilities into a web application. By simply processing the contents of View State, your web application could permit an angry developer the opportune attack vector to "get back" at their employer. Always validate input into your application and sanitize anything that is returned to the user.

Control State

View State's little brother, Control State is View State that cannot be disabled. Using `Page.ViewStateEnabled`, developers can turn off View State for the page or the entire application (at the configuration level). Control State is used by developers to persist values in the case that View State is disabled. Control State is stored in the `__VIEWSTATE` hidden field and thus, from a security perspective, is an extension of View State. By properly securing View State and validating input, Control State will be secured as well.

While the client provides numerous state management options, the server offers different options with their own unique challenges. In server side state management, (depending on the technique used) some information is provided to identify the user to the server. The server stores and manages the state information. This solution avoids the Parameter Manipulation risks that client side state management carries but has its own challenges and opportunities for your application. State can be maintained on the server with ASP.NET using the following objects:

- Application
- Session
- Profile
- View State (View State can exist on the server)

Each object carries its own security baggage usually related to access and scope. For access you need to be aware of how your application will access the various state objects. Scope refers to properly scoping the data so that you do not provide content outside of the necessary scope. We will examine each of these as they apply to the various server side state objects.

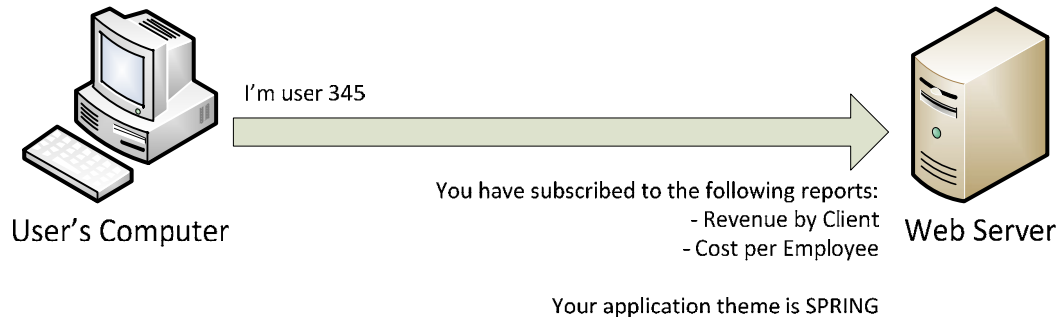


Figure 2

Application

Application is used to store information that is needed for all users of an ASP.NET application. The data is stored in memory allowing quick storage and retrieval. This object is ideal for storing small amounts of data that does not change from user to user (such as a default ID value). The Application object is a key value pair that is instantiated when the IIS Web Application starts and is lost when the application stops.

Use of the Application object should be limited to small amounts of data that are global in nature. Improperly scoping data can lead to an Information Disclosure vulnerability. In the instance where user specific information is stored in the Applications object (which it should never be because the Application object is specifically not for user specific information) it would be available to any user of the web application. While this is an example of the improper use of an object leading to a security vulnerability, it is an excellent example of how a simple mistake can lead to exposing your user's data to anyone else using the application. When using the Application object, ensure that the data being stored is not specific to a user.

Session

The Session object is a key value pair that is associated with an individual user. Unlike the Application object, Sessions are not global in scope. Users are identified by the server using a SessionID value that is passed to the client. This ID is transmitted with each request and then used by the server to determine what (if any) data is stored for the user in the Session data store. Sessions are active as long as requests are sent to the server within the specified Session lifetime. This allows Sessions to expire after a specified time period.

By default, SessionID is stored in a cookie on the client system. ASP.NET does support another option for SessionID communication between the client and server: through the URL. This transmits the SessionID as a part of the URL (using URL rewriting). By adding the following element to your web.config you can configure your ASP.NET application to pass SessionID through the URL:

```
<sessionState cookieless="true"/>
```

This will yield a URL that appears as follows:

```
http://localhost/(S(tmuwrs2ubkjgnxi4ulrzncy))/default.aspx
```

Notice the **tmuwrs2ubkjgnxi4ulrzncy** this is the SessionID. ASP.NET will add the session ID in to each URL that is processed by the application without any effort by the developer. This is a great solution for client systems that do not accept cookies but leads to numerous security challenges.

Once the SessionID is presented to the client computer, it is susceptible to Parameter Manipulation attacks. This is true for the cookie as well as the URL delivery method. While the SessionID is randomly generated (MSDN, 2011) and not easily guessed, it can be altered to another valid session ID that an attacker harvests through a capturing the clear text transmission of the SessionID. Using a network monitoring system like WireShark, attackers can collect SessionIDs that are transmitted in clear text over the network. After collecting the SessionID, the attacker can simply modify their SessionID to reflect that of another user exposing any sensitive data that is stored in the Session object. To avoid exposing the SessionID, avoid clear text transmission using encrypted communication like SSL/TLS.

Another security challenge opened by using cookieless Sessions is the recycling of SessionIDs. By default, if a SessionID is submitted via a URL ASP.NET will create a session with the provided ID. This could lead to two users having the same SessionID and result in an Information

MSDN. (2011, 12 31). *HttpSessionState.SessionID Property*. Retrieved from MSDN: Microsoft Developer Network: <http://msdn.microsoft.com/en-us/library/system.web.sessionstate.httpsessionstate.sessionid.aspx>

Northrup, T., & Snell, M. (2010). *Web Application Development with Microsoft .NET Framework 4.0*. Redmond, WA: Microsoft Press.

OWASP Top Ten. (2010). *OWASP Top 10 - 2010*. Internet: OWASP.

OWASP Top Ten Team. (2011, 12 15). *Top 10 2010-A3-Broken Authentication and Session Management*. Retrieved from OWASP: The Open Web Application Security Project: https://www.owasp.org/index.php/Top_10_2010-A3

<http://msdn.microsoft.com/en-us/library/ms178594.aspx>

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Projects Reboot 2012

What is the OWASP Project ReBoot initiative?

OWASP needs to refresh, revitalize & update its projects. We need to make the software development community more aware of our efforts and demonstrate the foundations library of solutions & guidance designed to help with the secure application development lifecycle.

The proposal for this initiative is here:

[Project Re-Boot Proposal](#)

Project Lead: Eoin Keary

Proposal Approval Team: Jim Manico, Rahim Jina, Tom Brennan

To that end we have a budget to fund various project related activities. The expected outcome of this initiative is to deliver some great high quality material which can be used to support software developers and testers for years to come:

Current Submissions

[OWASP Application Security Guide For CISOs](#)

[OWASP Development Guide](#)

[OWASP Testing Guide](#) - Agreement reached. Awaiting proposal.

[Zed Attack Proxy](#)

[OWASP Cheat Sheets](#)

[OWASP AppSensor](#)

[OWASP Mobile Project](#)

Key Dates

Submission closing date: July 30th 2012

First round of proposal selection: 15 June 2012

Second round of proposal selection: 10 Aug 2012

Activity types

Type 1: Update, rewrite & complete guides or tools.

This “type” is aimed at both existing and new tools or guides which require development effort to update, augment, rewrite, develop in order to achieve a high quality release quality product.

Examples:

1. “Mini” Project based summits: Expenses associated with getting global workshops, with the aim of releasing a new version of a project.
2. Paying contributors for their time and effort.
3. Paying for user guides etc to be professionally developed (technical writing etc).

Type 2: Market, Training, Awareness, increase adoption.

Existing, healthy robust tools and guides can utilise Type 2 activities to help with creating awareness and increasing adoption of that project.

Examples:

1. Assisting with expenses associated with marketing a project.
2. Costs facilitating OWASP project focused training and awareness events

Donate to help save a current or future software application



..... **Can I apply for this Reboot?**

You certainly can, assuming you are an OWASP member.

If you feel your project is ready or has potential you can apply for the reboot programme.

..... **How does funding work?**

Type 1: Funding can be applied for as required if travel/mini summit etc is to be expensed as part of the reboot. Development activities; payment to contributors shall be at 50% and 100% milestones.

Milestones are agreed prior to project reboot initiation.

Once the 50% milestone is reached the work done to date shall be reviewed by a member of the [-GPC](#) and also another nominated OWASP reviewer (generally an OWASP leader).

Type 2: Funding is supplied as required. Items to be funded are agreed prior to reboot initiation.

Invoices for the required services are sent directly to the foundation for payment.

How do I apply? Send in a proposal with the following information:

1. Project name and description. Including reboot project lead and any team members.
2. Re boot type (Type 1 or Type 2)
3. Goals of the reboot
4. Timeline for the 50% milestone and the 100% milestone. Suggested milestone reviewers (Generally OWASP Leaders or other industry experts)
5. Budget required and how you shall spend it.

Want to support this initiative or learn more? Contact [Eoin Keary](#)

OWASP Podcast

..... *Hosted by Jim Manico*

OWASP Podcast series is hosted by Mr. Jim Manico and features a wide variety of security experts. This week we feature Troy Hunt, a Microsoft MVP involved in .Net Security. .



Podcast Link: https://www.owasp.org/download/jmanico/owasp_podcast_91.mp3

OWASP TOP 10 with Hacking-Lab

Martin Knobloch

Introduction

OWASP Global Education Committee (GEC) and Hacking-Lab have embarked in a joint educational project: Academy Portal and Hacking-Lab's remote security lab. While passive learning methods are generally acceptable to achieve lower levels of performance, but an interactive learning environment will allow the learner to achieve higher levels of performance (i).

OWASP Academy Portal https://www.owasp.org/index.php/OWASP_Academy_Portal_Project

When it started...



Since its launch at AppSec US in Minneapolis 2011, the portal has seen more than 6000 active global users and more than 1072 individuals have assigned to the free OWASP TOP 10 challenges.

Scoring System

Currently, the user with the nickname "bashrc" is leading the scoring of the OWASP TOP 10 event. Within the last couple of months, 167 users have successfully solved the OWASP challenges.

OWASP GEC team is checking submitted solutions day and night. This effort is driven through the support of the following key individuals: Martin Knobloch, Cecil Su, Steven van der Baan and Zaki Akhmad.

OWASP Online Competition

OWASP is planning to add additional challenges. Thanks to the Greece Hackademics project, additional challenges are now ready to be used for the planned OWASP online security competition in 2012. The winner will receive a free ticket to one of the OWASP international conferences.

WebGoat Integration

Through the efforts of volunteers, WebGoat has been integrated into the Hacking-Lab framework during the last couple of weeks. Thanks to Nicolas Hochart from Helsinki, the major work is done and we are in the quality assurance process before making them public. The addition of the Hackademics and the WebGoat projects, will introduce more than 20 new and free challenges available to everyone looking to gain some hands-on experience.

Advanced Web Security

The OWASP TOP 10 is only one important area of focus. Many additional, critical security aspects needspecial attention. In response to some recent media discussions, OWASP now has additional security challenges for the Apache Struts2 security vulnerability plus the commonly unknown XML external entity attack (XXE).

Apache Struts2 Tutorial: <http://media.hacking-lab.com/movies/struts2/>

LiveCD

Don't hesitate and start exploring the hands-on exercises. Joining the OWASP TOP 10 challenges is easy. Sign-Up for a Hacking-Lab account, register for the free OWASP TOP 10 challenges and get your free xUbuntu based LiveCD that provides everything you need to get started.

Sign-Up and register for FREE OWASP TOP 10 challenges <https://www.hacking-lab.com/events/registerform.html?eventid=245&uk=>

Download LiveCD <http://media.hacking-lab.com/largefiles/livecd/>

(i) <http://www.nwlink.com/~donclark/hrd/strategy.html>

OWASP News

Michael Coates

security101@lists.owasp.org

OWASP has created a new mailing list that is focused on bringing security information to anyone new to the security space. Have a question on a security topic? Wonder what best practices are recommended for a particular topic? Join the security101 mailing list and ask a question or help answer others!

Join at the following link: <https://lists.owasp.org/mailman/listinfo/security101>

Monthly Security Blitz

OWASP is starting a monthly security blitz where we will rally the security community around a particular topic. The topic may be a vulnerability, defensive design approach, technology or even a methodology. All members of the security community are encouraged to write blog

posts, articles, patches to tools, videos etc in the spirit of the current monthly topic. Our goal is to show a variety of perspectives on the topic from the different perspectives of builders, breakers and defenders.

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

OWASP Confirmed Member LinkedIn Group

Curious to network with other OWASP members? Want to promote to the world that you support OWASP? If you're an OWASP member then join the confirmed member linkedin group. Note: This is a virtual badge/membership card. There aren't any resources or discussions at this linkedin group.

<http://www.linkedin.com/groups?viewMembers=&gid=4342746&sik=1336166179573>

<https://www.owasp.org/index.php/Membership>

Upcoming Events

Global AppSec Events

| Global AppSec Events | Date | Location | GCC Rep | OWASP Introduction/Keynote |
|--|-------------------------------|---------------------|---------------|--|
| Global AppSec Research 2012 (Wiki) | July 10, 2012 - July 13, 2012 | Athens, Greece | John Wilander | Tom Brennan |
| Global AppSec North America 2012 | Oct. 22, 2012 - Oct. 26, 2012 | Austin, TX | Lorna Alamri | Michael Coats, Matt Tesauro, Tom Brennan, Eoin Keary |
| Global AppSec Latin America 2012 | Q4 2012 | Montevideo, Uruguay | TBD | Tom Brennan |
| OWASP AppSec ASIAPAC 2013 | Feb. 21, 2013 - Feb. 22, 2013 | Jeju | TBD | TBD |

Regional and Local Events

| | | | | |
|-----------------------------------|----------------|-------------------------------|-----------------|--------------------------|
| AppSec India 2012 | Regional Event | Aug. 24, 2012 - Aug. 25, 2012 | India | Tom Brennan |
| OWASP Ireland | Regional Event | Sept. 4, 2012 - Sept. 6, 2012 | Dublin, Ireland | Eoin Kearny, Tom Brennan |

Partner and Promotional Events

Want to get your event listed here? Be sure to work with the Global Conferences Committee

| Event | Date | Location | OWASP Participation |
|---|-------------------------------|---------------------------|---------------------|
| BHack Conference | June 14, 2012 - June 17, 2012 | Belo Horizonte/MG, Brazil | TBD |
| Cyber Security, Cyber Warfare and Digital Forencis (CyberSec12) | June 26, 2012 - June 28, 2012 | Kuala Lumpur | TBD |
| BlackHat USA | July 25, 2012 - July 26, 2012 | Las Vegas, NV | TBD |

Global Committees

Global Chapter Committee

Mission

Committee Chair: Josh Sokol

To provide the support required by the local chapters to thrive and contribute to the overall mission and goals of OWASP.

Global Conference Committee

Mission

Committee Chair: Mark Bristow

The OWASP Global Conferences Committee (GCC) exists to coordinate and facilitate OWASP conferences and events worldwide.

Global Connections Committee

Mission

Committee Chair: Jim Manico

To help the OWASP foundation communicate to the outside world in a unified and coherent way. We also assist with internal communication between different OWASP projects and committees.

Global Education Committee

Mission

Committee Chair: Martin Knobloch

Provide awareness, training and educational services to corporate, government and educational institutions on application security.

Global Industry Committee

Mission

a voice for industry. This will be accomplished through outreach; including presentations, development of position papers and collaborative efforts with other entities.

The OWASP Global Industry Committee (GIC) shall expand awareness of and promote the inclusion of software security best practices in Industry, Government, Academia and regulatory agencies and be

Committee Chair: Rex Booth

Global Membership Committee

Mission

mends policies, procedures, and initiatives to assure a growing and vital membership organization.

The Membership Committee recommends policies, procedures, and strategies for enhancing the membership in OWASP both numerically and qualitatively. The committee provides a written plan and recom-

Committee Chair: Dan Cornell

Global Projects Committee

Mission

Committee Chair: Jason Li

To foster an active OWASP developer community, facilitate contributions from OWASP community members, provide support and direction for new projects, and encourage adoption of OWASP Projects by the global community at large.

ARTICLE I - OWASP Bylaws

Section 1.01. Offices

The principal office of the Foundation in the State of Maryland, shall be located in County of Howard. The Foundation may have such other offices, either within or without the State of Maryland, as the Board of Directors may designate or as the business of the Foundation may require from time to time.

Section 1.02. Purpose

The OWASP Foundation will be the thriving global community that drives visibility and evolution in the safety and security of the world's software.

Section 1.03. Values

OPEN: Everything at OW ASP is radically transparent from our finances to our code. **INNOVATION:** OW ASP encourages and supports innovation/experiments for solutions to software security challenges. **GLOBAL:** Anyone around the world is encouraged to participate in the OWASP community. **INTEGRITY:** OWASP is an honest and truthful, vendor agnostic, global community.

Organization and Barter In Trade Supporters

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The OWASP Foundation

The Open Web Application Security Project (OWASP) is an international community of security professionals dedicated to enabling organizations to conceive, develop, acquire, operate, and maintain applications that can be trusted. All of the OWASP tools, documents, forums, and chapters are free and open to anyone interested in improving application security. We advocate approaching application security as a people, process, and technology problem because the most effective approaches to application security includes improvements in all of these areas. OWASP is a new kind of organization. OWASP is not affiliated with any technology company, although we support the informed use of commercial security technology. Our freedom from commercial pressures allows us to provide unbiased, practical, cost-effective information about application security. Similar to many open-source software projects, OWASP produces many types of materials in a collaborative, open way.

Core Values

- OPEN – Everything at OWASP is radically transparent from our finances to our code
- INNOVATION – OWASP encourages and supports innovation/experiments for solutions to software security challenges
- GLOBAL – Anyone around the world is encouraged to participate in the OWASP community
- INTEGRITY – OWASP is an honest and truthful, vendor neutral, global community

**OWASP is an Open community of Application Security Professionals.
The opportunities to participate in the organization are limitless**

[Donate](#)

OWASP Membership

The professional association of OWASP Foundation is a not-for-profit 501c3 charitable organization not associated with any commercial product or service. To be successful we need your support. OWASP individuals, supporting educational and commercial organizations form an application security community that works together to create articles, methodologies, documentation, tools, and technologies

A complete list of all OWASP members can be found here: <https://www.owasp.org/index.php/Membership>

Individual Supporter - \$50 USD/year

- Underscore your awareness of web application software security
- Receive Discounts to attend OWASP Conferences
- Expand your personal network of contacts
- Obtain an owasp.org email address
- Allocate 40% of your membership dues to directly support your local chapter
- Participate in Global Elections and vote on issues that shape the direction of the community

Corporate Supporter - \$5,000 USD/year

- Tax deductible donation
- Receive Discounts at OWASP Conferences to exhibit products/services
- Opportunity to post a rotating banner ad on the owasp.org website for 30 days at no additional cost (\$2,500 value)
- Be recognized as a supporter by posting your company logo on the OWASP website
- Be listed as a sponsor in the quarterly newsletter distributed to over 10,000 individuals
- Have a collective voice via the Global Industry Committee
- Participate in Global Elections and vote on issues that shape the direction of the community
- Allocate 40% of your annual donation to directly support your choice of chapter and/or projects

For More information on sponsorship opportunities, contact Kelly Santalucia at Kelly.santalucia@owasp.org

[JOIN NOW](#)

OWASP Membership Categories

| | Voice During Elections | Recognition on OWASP.org Website | Discounts on Conferences | Complimentary Advertising | Recognition in Newsletter | owasp.org email address | Directly Support local chapter or project |
|------------------------------------|--|--|--|---|---|---|---|
| Corporate Member | X | X | X | X | X | X | X |
| Individual Member | X | X | X | | X | X | X |
| Government Supporter | | X | X | | X | | X |
| Academic Supporter | | X | X | | X | X | |
| Organizational Supporter | | X | X | X | X | | X |

Other ways to Support OWASP

[Local Chapter Supporter](#)

Organizations that are not yet interested in becoming a full Corporate Member but who have a desire to direct their support in a more regional manner may prefer to become a Local Chapter Supporter. Check with your local Chapter Leader to learn more about specific price levels for Chapter Supporters. The funds donated are divided with 90% directly supporting the OWASP local chapter and 10% to the OWASP Foundation. [Local chapter pages](#)

[Single Meeting Supporter](#)

Organizations that wish to support OWASP local chapter with a 100% tax deductible donation to enable OWASP Foundation to continue the mission. The fees are set by local chapter, so contact the chapter leader of the chapter that you want to work with. [Local chapter pages](#)

[Event Sponsorship](#)

Participate in one of our Global or Regional events by sponsoring the expo or providing tangibles to the conference attendees. [View Sponsorship Opportunities](#)

[Tax Deductible Donation](#)

The OWASP Foundation is a registered 501(c)3 in the US as well as a Not for Profit entity in Europe. As a result, your direct donation is eligible to be deducted as a charitable donation. Please contact your tax advisor for complete information.

[Individual Participation](#)

With over 140 active chapters globally and hundreds of OWASP Projects and millions of great ideas waiting to become projects, it would be difficult to NOT find a way to participate. All it takes to participate is a willingness to share ideas and collaborate with the key minds in the industry. Please reach out to your local chapter leader, a current project leader, or start your own!

Newsletter Advertising:

- 1/4 page advertisement \$2000
- 1/2 page advertisement \$2500
- 1/2 page advertisement + either a 30 rotating banner on the OWASP site or 10 copies of the Top 10 Books \$3000
- full page advertisement \$5000
- Year subscription (1 newsletter every quarter with the 1/2 page advertisement posted) \$9000.

Please contact Kelly.Santalucia@owasp.org or Kate.Hartmann@owasp.org for details.