



SWAMP
SOFTWARE **ASSURANCE** MARKETPLACE

USER MANUAL

(317) 274-3942

Web: continuousassurance.org

App: www.mir-swamp.org

Twitter: [@swampteam](https://twitter.com/swampteam)

Technical Support

The SWAMP offers 24/7 support 365 days a year. Following is contact information for the SWAMP:

- Dial (317) 274-3942 (24/7/365)
- Email: support@continuousassurance.org

To create a support ticket, go to <https://ticket.continuousassurance.org> or email support@continuousassurance.org

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Preface

This document guides selected users to successfully use the Software Assurance Marketplace (SWAMP).

The SWAMP is state-of-the-art software designed to serve as an open resource for software developers, assurance tool developers and researchers who wish to perform continuous assurance (CSwA) testing in a safe, secure environment.

The SWAMP is funded by the Department of Homeland Security, and directed by academic experts in high-throughput computing, identity management, and security from the following organizations: the Morgridge Institute for Research, the National Center for Supercomputing Applications at the University of Illinois at Champagne-Urbana, the Center for Applied Cybersecurity Research at Indiana University and the University of Wisconsin-Madison.

Introduction to the Software Assurance Marketplace (SWAMP)

The SWAMP is a national, no cost resource for software assurance (SwA) technologies, used across research institutions, non-governmental organizations and civilian agencies and their communities as both a research platform and a core component in the software development life-cycle.

It is our vision that widespread adoption of the SWAMP services will lead to a more secure and safer software ecosystem.

The Software Assurance Marketplace (SWAMP) channels the mission of the Department of Homeland Security Science and Technology Directorate's (DHS S&T) Cyber Security Division by:

- Developing and leveraging technologies, tools and techniques to defend and secure current systems to better protect critical infrastructures against attacks from our adversaries,
- Facilitating technology transition through a marketplace approach where a collection of innovative technologies can be harnessed by the community, and
- Providing a collaborative research environment by which DHS customers, agencies of the U.S. government, academia, private industry and international partners can exchange technical and research ideas to help advance software security and quality improvements.

The SWAMP may be used without cost by open-source, for profit, and non-profit organizations to test software for vulnerabilities and/or security risks. The accessibility of the SWAMP allows users at all levels to engage in the software development life-cycle. A user can upload his/her Software Package and/or Assessment Tool to the SWAMP for SwA testing. At launch, users will have access to over 100 Software Packages on the most popular Platforms (operating systems).

The SWAMP protects your intellectual property and personally identifiable information. You control access to your Software Packages, Assessment Tools, and software Assessment Results.

In the future, the SWAMP will offer the most frequently requested Software Packages, Software Assessment Tools, and Platforms.

The SWAMP currently provides the following software assurance services:

1. For software written in one of the top three programming languages:
 1. Java
 2. C
 3. C++
2. For assessments using one or more most popular open-source static code analysis tools. Specifically:
 1. FindBugs ~ On any supported Linux operating system supporting JVM 1.7.0_17 or greater
 2. PMD ~ On any supported Linux operating system supporting JVM 1.7.0_17 or greater
 3. Clang Static Analyzer ~ C/C++ for any supported Linux operating system
 4. Cppcheck ~ C/C++ for any supported Linux operating system
 5. Gcc ~ C++ compiler
3. For software that runs on one or more of these popular Platforms (operating systems):
 1. Red Hat Enterprise Linux 6.4 32-bit
 2. Red Hat Enterprise Linux 6.4 64-bit
 3. Fedora 18 64-bit

4. Fedora 19 64-bit
5. Ubuntu 12.04.2 64-bit
6. Debian 7.0 64-bit
7. Scientific Linux 5.9 32-bit
8. Scientific Linux 5.9 64-bit
9. Scientific Linux 6.4 64-bit

Part 1: Registration

Accessing the SWAMP

The SWAMP is a web based software application. You can run the SWAMP using most modern web browsers. We recommend the following:

- Chrome 7.0 or later
- Firefox 4.0 or later
- IE 10.0 or later
- Safari 5.0 or later
- Opera 12.0 or later

To use the SWAMP, open up your web browser and go to: <https://www.mir-swamp.org>

SWAMP [About](#) [Contact](#) [Help](#)

SWAMP
SOFTWARE ASSURANCE MARKETPLACE

Welcome to the SWAMP

What is the SWAMP?

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
[Read More »](#)

Why use the SWAMP?
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How to use the SWAMP?
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SWAMP

Registering with the SWAMP

In order to access the SWAMP, a user registration form must be submitted and will require some personally identifiable information. You may have more than one SWAMP user account. A different email address or login identifications will be needed for each additional user account that is created. You may use the same email address and personally identifiable information in additional SWAMP user accounts that was used in your initial SWAMP user account.

Please note that your privacy is important to us. We will not provide your personal information to other organizations.

Follow the steps below to register with the SWAMP.

*****Note:** *Inappropriate use of the SWAMP that may or may not violate the Acceptable Use Policy will result in **deactivation** of your SWAMP user account. SWAMP reserves the right to terminate your user account at anytime without notice. If this happens, contact SWAMP at support@continuousassurance.org for any questions you may have, to request account reactivation, or to determine next steps to be able to access the SWAMP again.*

1. Navigate to mir-swamp.org. Select **Sign Up**.
2. Read and accept the “Acceptable User Policy.”

The screenshot shows a registration form for the SWAMP system. At the top, there is a navigation bar with links for 'SWAMP', 'About', 'Contact', and 'Help'. Below the navigation bar, a large text area contains the 'Acceptable User Policy' text. This text emphasizes responsible data sharing and prohibits the upload of classified data. Following the policy text are several sections: '4.0 Proper Acquisition and Licensing of Software', '5.0 Termination/Access Restriction', and 'Statement of Agreement'. Under the 'Statement of Agreement', it says: 'By clicking 'I Accept' it serves as acknowledgement that you have read and understand your responsibilities as a user. If you have questions, please contact the Help Desk at support@continuousassurance.org'. Below this text is a red-bordered checkbox labeled 'I accept'. At the bottom of the form are two buttons: a brown 'Next' button with a checkmark icon and a grey 'Cancel' button with a cross icon. A copyright notice at the very bottom states: 'Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research' and features the SWAMP logo.

3. On the **User Registration Form**, type the requested information, and select **Submit**.

User Registration Form

<p>Given name * <input type="text"/></p> <p>Family name * <input type="text"/></p> <p>Preferred name * <input type="text"/></p> <p>Affiliation * <input type="text"/></p>	PERSONAL INFO
<p>Email address * <input type="text"/></p> <p>Confirm email address * <input type="text"/></p> <p>SWAMP username * <input type="text"/></p> <p>SWAMP password * <input type="text"/></p> <p>Confirm SWAMP password * <input type="text"/></p>	ACCOUNT INFO
<p>Street Address 1 * <input type="text"/></p> <p>Street Address 2 <input type="text"/></p>	ADDRESS

Notes:

- All fields are required, with the exception of Street Address 2.
- For the Email address field, only email addresses from institutions are allowed to use the SWAMP. For example, Jack.Smith@morgridge.org. Freely available email accounts are prohibited, for example, Gmail, Hotmail, and Yahoo.
- For the SWAMP Username field, the system generates an anonymous username to protect the user's identity. The user can change the default username. The username may be recorded in log files.
- For the Phone Number field the country code will be inserted when the user selects "country." Type the area code, and the local number.

Password Requirements

A strong password is required to complete registration and for access to the SWAMP. The following are the **minimum acceptable** password requirements:

- At least ten characters
- At least one upper case alphabetic character
- At least one lower case alphabetic character
- At least one digit
- Symbols are encouraged
- Do not use words found in the dictionary
- The maximum password length is 200 characters

4. After submitting the registration form, you will be asked to verify your email address. Select **OK**.
5. You will receive a verification email. Within the email follow the instructions to verify your email address.

The screenshot shows a web page titled "Verify Email Address". At the top, there is a navigation bar with links for "About", "Contact", and "Help". The main content area starts with a greeting: "Dear Karen Hitchcock:". Below this, a message states: "You have registered to join the SWAMP. To complete your registration, press the button below. Once you have done this, you may log in and begin using the SWAMP." A large orange button labeled "✓ Verify" is centered. At the bottom of the page, there is a copyright notice: "Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research" and the SWAMP logo.

6. You have now completed the registration process and can sign in to the SWAMP.

*****Note:** *Inappropriate use of the SWAMP that may or may not violate the Acceptable Use Policy will result in deactivation of your SWAMP user account. SWAMP reserves the right to terminate your user account at anytime without notice.*

Forgotten Username/Password?

If you have forgotten your login information, navigate to the **Welcome to the SWAMP** screen and select **Help, I forgot my password** or **Help, I forgot my username**, depending on what information you are requesting. If you have forgotten your password, you will need to reset your password by following the steps below. If you have forgotten your username, a username request can be submitted by selecting, **Help, I forgot my username** and following the steps on the next page.

Resetting Your Password

1. Select **Help, I forgot my password**.

SWAMP  About  Contact  Help



SWAMP

SOFTWARE **ASSURANCE** MARKETPLACE

Welcome to the SWAMP

What is the SWAMP?

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
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Why use the SWAMP?
[Read More »](#)

How to use the SWAMP?
[Read More »](#)

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2. Please enter your SWAMP User Name or Email Address.
3. Select Request Reset.
4. An email will be sent to the email address associated with your SWAMP account containing a link to reset your password.
5. Once you receive this email please sign in and select the link contained in the email to reset your password.
6. Enter and confirm your new password and select **Submit**.

SWAMP About Contact Help

Reset Password

Please enter your SWAMP username or email address below. By clicking the Request Reset button, an email will be sent to your account's email address containing a link to reset your password.

SWAMP Username:	Email Address:
<input type="text"/>	or
SWAMP Username	Email Address:
<input style="border: 2px solid orange; padding: 5px 10px; margin-right: 10px;" type="button" value="✓ Request Reset"/> <input style="border: 1px solid #ccc; padding: 5px 10px;" type="button" value="✗ Cancel"/>	

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
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Why use the SWAMP?
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How to use the SWAMP?
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SWAMP

SWAMP About Contact Help

Reset Password

Dear John Smith: Please enter and confirm your new password:

New password: *	<input type="password"/>
Confirm new password: *	<input type="password"/>
<input style="border: 1px solid #ccc; padding: 5px 10px; margin-right: 10px;" type="button" value="✓ Submit"/> <input style="border: 1px solid #ccc; padding: 5px 10px;" type="button" value="✗ Cancel"/>	

*Fields are required

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SWAMP

Requesting Your Username

1. Please enter your Email Address.
2. Select Request Username.

3. An email will be sent to the email address associated with your SWAMP user account with your current username.

Signing in to the SWAMP

At the **Welcome to the SWAMP** screen, sign in. If you are not yet a registered user of the SWAMP, you must first register. If you are registered, sign in with your username and password to access the SWAMP dashboard.

The screenshot shows the 'Welcome to the SWAMP' page. At the top, there's a navigation bar with links for 'SWAMP', 'About', 'Contact', and 'Help'. Below the navigation is the SWAMP logo, which features a gear with the words 'CONTINUOUS ASSURANCE' and a checkmark icon. To the right of the logo is the text 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' underneath. The main area has a light gray background. On the left, there's a form for logging in with fields for 'SWAMP Username' and 'SWAMP Password'. Below these fields are two buttons: a brown 'Sign In' button with a checkmark icon, which is highlighted with a red box, and a white 'Sign Up' button with a pencil icon. Underneath the form are two small links: 'Help, I forgot my password?' and 'Help, I forgot my username?'. To the right of the form is a section titled 'Welcome to the SWAMP' with a horizontal line. Below this is a 'What is the SWAMP?' section containing a brief description of the marketplace. Further down are three boxes with links: 'Who uses the SWAMP?', 'Why use the SWAMP?', and 'How to use the SWAMP?'. At the bottom of the page, there's a copyright notice 'Copyright © 2014 Software Assurance Marketplace, Mргridge Institute for Research' and the SWAMP logo.

Updating Your SWAMP Account

In the event that your personal information changes, you have the ability to update your personal information in your profile at any time.

1. Sign in to the SWAMP.
2. From the **Home** screen select **My Account** to make changes to your account, such as editing your profile. Select **Edit Profile**.

SWAMP   **About**  **Contact**  **Help**

Welcome, swamp1999 

My Profile

Given name	Joe	PERSONAL INFO
Family name	Smith	
Preferred name	joe	
Affiliation	Morgridge Institute for Research	
Email address	joe.smith@morgridgeinstitute.org	ACCOUNT INFO
SWAMP username	swamp1999	
Street address 1	123 Main Street	ADDRESS
Street address 2		
City	Madison	
State	WI	
Postal code	53711	
Country	United States	
Country code	I	PHONE
Area code	(608)	
Phone number	123-4567	

3. On the **Edit My Profile** screen, make the desired changes and select **Submit**.

SWAMP   **About**  **Contact**  **Help**

Welcome, swamp1999 

Edit My Profile

Given name *	Joe	PERSONAL INFO
Family name *	Smith	
Preferred name *	joe	
Affiliation *	Morgridge Institute for Research	
Email address *	joe.smith@morgridgeinstitute.org	ACCOUNT INFO
Confirm email address *	joe.smith@morgridgeinstitute.org	
Street Address 1 *	123 Main Street	ADDRESS
Street Address 2		
City *	Madison	
State *	WI	
Postal code *	53711	

Changing Your Password

In the event you would like a new password or you feel that your current password might have become compromised at any time, you have the option to change your password.

1. To change your password, select **Change Password**.

The screenshot shows the SWAMP user profile interface. At the top, there's a navigation bar with links for About, Contact, Help, Welcome (swamp1999), and Sign Out. On the left, there are buttons for adding a new project, packages owned, and a package named 'My Package'. The main area contains fields for address and contact information: Street Address 1 (123 Main Street), Street Address 2, City (Madison), State (WI), Postal code (53711), Country (United States), Country code (I), Area code (608), and Phone number (123-4567). Below these fields are three buttons: 'Submit' (with a checkmark icon), 'Change Password' (with a lock icon, which is highlighted with a red box), and 'Cancel' (with a cross icon). A note at the bottom right says '*Fields are required'. At the bottom of the page, there's a copyright notice (Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research) and the SWAMP logo.

2. See Password Requirements on page 6 for more information about creating a strong password.
3. Type the new password and select **Submit**.

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)

Change My Password

New password *

Confirm new password *

✓ Submit **✗ Cancel**

*Fields are required



Home
My Account
PROJECTS I OWN
My Project
+ Add New Project
PACKAGES I OWN
My Package
+ Add New Package

Deleting Your SWAMP Account

If for any reason you would like to delete your SWAMP user account, you have the option to do so. By deleting your SWAMP user account, you will lose access to all information in your SWAMP user account. The information will be stored in the SWAMP databases. If in the future, you wish to use the SWAMP again, you may register for a new SWAMP user account at any time. You will need to fill out the **User Registration Form** to create a new user account (pages 4-8).

For access to your user account information, contact SWAMP at support@continuousassurance.org

1. To delete your SWAMP account, from any screen select **My Account**.

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)



[Home](#)

[My Account](#) (highlighted)

[PROJECTS I OWN](#)

[My Project](#)

[+ Add New Project](#)

[PACKAGES I OWN](#)

[My Package](#)

[+ Add New Package](#)

Recent Events

User Last Updated Profile 2014-02-10

You previously updated your profile.

User Last Logged In 2014-02-10

You previously logged in.

Project My Project Created 2014-02-06

Project My Test Project was created.

User Joined Project My Project 2014-02-06

User Joe Smith joined project My Test Project.

User Registered 2014-02-06

You registered for the SWAMP.

2. On the **My Profile** screen, select **Delete Account**.

The screenshot shows the SWAMP My Profile page. At the top, there is a navigation bar with links for Home, About, Contact, Help, Welcome, swamp20099, and Sign Out. On the left, there is a sidebar with Home, My Account (which is selected and highlighted in brown), and Add New Package. The main content area is titled "My Profile". A modal dialog box titled "Delete My Account" is displayed, asking "Are you sure that you would like to delete your user account? When you delete an account, all of the user data will continue to be retained." It contains two buttons: "OK" (with a checkmark icon) and "Cancel". Below the modal, there is a form for personal information. The "PERSONAL INFO" section includes fields for SWAMP username (swamp20099), Street address 1 (330 N Orchard), Street address 2, City (Madison), State (WI), Postal code (53715), Country (United States), Country code (I), Area code ((608)), and Phone number (3164226). To the right of the form, sections for ADDRESS and PHONE are visible. At the bottom of the page, there are buttons for Edit Profile, Request Ownership, Delete Account (with a trash can icon), and Cancel. The "Delete Account" button is highlighted with a red rectangle. The footer of the page includes the copyright notice "Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research" and the SWAMP logo.

3. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete your account or **Cancel** to cancel your request.

Part 2: Projects

Requesting Project Ownership

In an effort to ensure cybersecurity, users must request Project Ownership status in order to create new projects and conduct assessment runs. Follow the steps below to become an approved Project Owner. Once approved, you may create projects and invite others to join your Project. Project Members can create Assessment Runs, schedule Run Requests, and view Assessment Results. You only need to request Project Ownership status once.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for 'SWAMP', 'About', 'Contact', 'Help', 'Welcome, swamp20099', and 'Sign Out'. On the left side, there is a sidebar with icons for 'Home', 'My Account' (which is highlighted in brown), and '+ Add New Package'. The main content area has a title 'Project Ownership Use Policy'. A modal dialog box is open, titled 'Request Sent', containing the message: 'You will be notified when ownership privileges are granted.' Below the message, there is a list of responsibilities for a Project Owner, starting with 'Maintaining an accurate Description of your Project in your SWAMP Project Profile.' At the bottom of the dialog are two buttons: 'Accept' (with a checkmark icon) and 'Cancel' (with a cross icon). In the bottom right corner of the main content area, there is a small note about the acceptable use policy. At the very bottom of the page, there is a copyright notice: 'Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research' and the SWAMP logo.

Project Registration Form

Full name *
Short name (alias) *
Affiliation *
Assessment results viewer *
Description *

*Fields are required

1. On the **Project Registration Form** screen, complete the following fields:

Full name:	The full name is the long version of your Project's name used in Project descriptions.
Short name:	The Project short name or alias is the short version of your Project's name and will appear in the sidebar.
Affiliation:	Please include the company, university, or other organization with which your Project is affiliated.
Assessment Results Viewer:	Choose the results viewer from the dropdown menu.
Description:	Please provide a description of your Project to help a SWAMP administrator approve your Project.

2. Select **Submit**.

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)

Project Registration Form



[Home](#)

[My Account](#)

PROJECTS I OWN

[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)

[+ Add New Package](#)

Full name *

✓

Short name (alias) *

✓

Affiliation *

✓

Assessment results viewer *

✓

Description *

This is my very first project.

✓

*Fields are required

✓ Submit
✗ Cancel

3. In the left side bar, under **Projects I Own**, your new **Project** will appear.

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)



[Home](#)

[My Account](#)

PROJECTS I OWN

[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)

[+ Add New Package](#)

Recent Events

User Last Updated Profile 2014-02-10

You previously updated your profile.

User Last Logged In 2014-02-10

You previously logged in.

Project My Project Created 2014-02-06

Project My Test Project was created.

User Joined Project My Project 2014-02-06

User Joe Smith joined project My Test Project.

User Registered 2014-02-06

You registered for the SWAMP.

Inviting Members to Your Project

Project Owners may invite others to join to their Project. Invitees do not need to be current users of the SWAMP, but must register with the SWAMP to become a Project Member. Project Members are able to create Assessment Runs, schedule Run Requests, and view Assessment Results. A Project Owner is automatically a Project Member.

1. The Home screen lists your project under PROJECTS I OWN.
2. Select a Project you own.
3. Select the **Members** tab.

The screenshot shows the SWAMP web application. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar, there is a search bar and a menu with options: 'Detail', 'Members' (which is highlighted with a red box), 'Assessments', 'Run Requests', 'Runs', and 'Results'. The main content area has a title 'My Project Project Members'. Below the title, a message states 'The following SWAMP users are members of project My Test Project.' A table displays the member information:

Name	Email	Affiliation	Join Date	Admin
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	2014-02-06 11:19	<input checked="" type="checkbox"/>

At the bottom of the table are three buttons: 'Invite New Members' (highlighted with a red box), 'Submit', and 'Cancel'.

4. The **Project Members** screen appears.

***Note: SWAMP automatically lists the Project Owner's name.*

5. Select **Invite New Members**.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) [Run Requests](#) [Runs](#) [Results](#)

My Project Project Members

The following SWAMP users are members of project My Test Project.

Name	Email	Affiliation	Join Date	Admin
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	2014-02-06 11:19	<input checked="" type="checkbox"/>

[Invite New Members](#) [Submit](#) [Cancel](#)

PROJECTS I OWN

[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)

[+ Add New Package](#)

6. From the Project Invitations screen, select **Add Invitation**.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) [Run Requests](#) [Runs](#) [Results](#)

My Project Project Invitations

The following SWAMP users have previously been invited to project My Test Project.

Name	Email	Invitation Date	Status
Joe	joe.smith@morgridgeinstitute.org	2014-02-06 14:05	Accepted
Jane	jane.doe@morgridgeinstitute.org	2014-02-06 11:22	Pending X

No new project invitations.

[+ Add Invitation](#) [Send](#) [Cancel](#)

PROJECTS I OWN

[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)

[+ Add New Package](#)

7. Type the name and email of the person you are inviting.

8. Continue to Add invitations for any others for whom you want to join your Project. Individuals do not have to be registered users of the SWAMP to be invited, but must register if they are going to be a part of the project.

9. Select **Send**.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar, there is a search bar and a menu with options: 'Details', 'Members' (which is highlighted in orange), 'Assessments', 'Run Requests', 'Runs', and 'Results'. The main content area has a title 'My Project Project Invitations'. A sub-header below it says 'The following SWAMP users have previously been invited to project My Test Project.' There is a table listing two users: Joe (Accepted) and Jane (Pending). The table has columns for Name, Email, Invitation Date, and Status. Below the table, there is a form with fields for Name and Email, both of which are currently empty and highlighted with a red border. At the bottom of the form are three buttons: '+ Add Invitation' (orange), 'Send' (grey), and 'Cancel' (grey).

Name	Email	Invitation Date	Status
Joe	joe.smith@morgridgeinstitute.org	2014-02-06 14:05	Accepted
Jane	jane.doe@morgridgeinstitute.org	2014-02-06 11:22	Pending

10. You will receive a notification that invitations have successfully been sent to all new persons invited to join your Project.

Changing Project Member Status

A **Project Owner** may change the status of a **Project Member(s)** by navigating to the **Members** tab at the top of the page. A **Project Owner** may change a **Project Member's** status to **Admin** (Administrator) or remove the **Project Member** entirely from the project. **Admin** rights give a **Project Member** the additional capability to approve and invite new **Project Members**.

1. Select your **Project** under the **Projects I Own** tab in the left sidebar.
2. Select the **Members** tab at the top of the page
3. Select the checkbox under the **Status** column for **Project Member(s)** you wish to give **Admin** rights.

*****Note:** To remove a Project Member from the Project, the Project Member cannot have Admin rights.

Removing Admin (Administrator) Rights

As the needs of your **Project** change, you can add/remove Admin rights from individual Project Members. Remove Admin rights for the Project Member(s) by following the steps below.

1. Deselect the checkbox under the Admin column.
2. Select Submit
3. An X will appear next to Admin column for each Project Member that does not have Admin rights.
4. Select the X next to the Admin column to remove the Project Member from the Project.

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[Details](#) [Members](#) [Assessments](#) [Run Requests](#) [Runs](#) [Results](#)

My Project Project Members

The following SWAMP users are members of project My Test Project.

Name	Email	Affiliation	Join Date	Admin
John Doe	jdoe@continuousassurance.org	Morgridge Institute for Research	2014-01-01 06:00	<input type="checkbox"/>
Jane Johnson	jjohnson@continuousassurance.org	Morgridge Institute for Research	2014-01-01 03:00	<input type="checkbox"/>
Joe Smith	jsmith@continuousassurance.org	Morgridge Institute for Research	2014-01-01 00:00	<input checked="" type="checkbox"/>

[Invite New Members](#) [Submit](#) [Cancel](#)

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Part 3: Software Packages

Adding Your Software Package to the SWAMP

You may add and upload, edit or delete your Software Packages. A Software Package is a set of files containing related software or source code that needs to be assessed for vulnerabilities or insecurities.

Upload a Software Package

1. To add your own Software Package, select **Add New Package**.

The screenshot shows the SWAMP application's user interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. On the left, there is a sidebar with icons for 'Home' (selected), 'My Account', 'PROJECTS I OWN' (with 'My Project'), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package'), and '+ Add New Package' (highlighted with a red border). The main content area is titled 'Recent Events' and lists five events with their dates: 'User Last Updated Profile' (2014-02-10), 'User Last Logged In' (2014-02-10), 'Project My Project Created' (2014-02-06), 'User Joined Project My Project' (2014-02-06), and 'User Registered' (2014-02-06). Below the events, a message states 'You registered for the SWAMP.'

2. Complete the fields on the form.

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)



Add New Package

Name *

Archive * No file chosen supported formats

Version *

Package path *

Package type *

Description (public) *

Description (private)

Comments

PROJECTS I OWN

- [My Project](#)

PACKAGES I OWN

- [My Package](#)

[+ Add New Project](#)

[+ Add New Package](#)

- Name:** Name of the Software Package.
- Version:** Revision of the uploaded software
- Archive:** Software Package to upload.
- Build script:** Script to run to build the package.
- Package path:** A required field and is the name of the top level directory that is produced when the archive file is unarchived.
- Package type:** This tells whether or not to invoke the build system to build the software from source code. From the dropdown menu choose C/C++, Java source code, or Java byte code.
- Build system:** Name of the system to use to build the software. For C/C++, Make, Make+Configure, CMake+Make or other may be used. For Java source, Ant, Ant+Ivy or Maven could be chosen.

Advanced settings

- Configure path:** The name of the directory relative to package-dir to change before running the configure command and is used only with C/C++ packages. *This is an optional field.*

Configure command: The name of a command to configure the package before building. If undefined/empty, no command is run. This is only used for C/C++ packages. *This is an optional field.*

Configure options: The name of options i.e. the arguments to pass to the configure command and is used only with C/C++. *This is an optional field.*

Build path: It is the path to the directory related to the source path to change to before building. *This is an optional field and is used for C/C++/Java.*

Build file: Used only with C/C++/Java source packages. It is the path to the build file related to the build path to use for the build systems except for the “Other” build command. For a build system type “Other”, the name of the file needs to be passed in the build options. This is only used with C/C++/Java source packages. *This is an optional field.*

Build command: If a build system other than the ones listed above has to be used, “Other” from the build system menu has to be selected and a build command to execute the package needs to be provided. This is optional and is used only C/C++ packages.

Build options: Name of the options and arguments to pass to the build command. Only for C/C++/Java source packages. *This is an optional field.*

Build target: The name of the file to be created by the build process. This target is passed to the build command. It is used only with C/C++/Java source. *This is an optional field.*

Description (public): A text description of the package that is visible to any user of the package.

Description (private): A text description of the package that is only visible to the owner of the project.

3. Select **Submit** to upload your Software Package. You will receive a notification once the upload is complete.

SWAMP
About
Contact
Help

Welcome, swamp1999 Sign Out



- [Home](#)
- [My Account](#)

- [PROJECTS I OWN](#)
- [My Project](#)

- [+ Add New Project](#)

- [PACKAGES I OWN](#)
- [My Package](#)

- [+ Add New Package](#)

Add New Package

Name * ✓

Archive * ✓ supported formats

Version * ✓

Package path * ✓

Package type * ✓

```
unzip c-package.zip
cd c-package
./configure
make
```

Build system

Configure+Make

C/C++ BUILD INFO

Advanced settings

Description (public) *
COMMENTS

Advanced settings

Configure path	<input type="text"/>	CONFIG
Configure command	<input type="text" value="./configure"/>	
Configure options	<input type="text"/>	
Build path	<input type="text"/>	BUILD
Build file	<input type="text"/>	
Build command	<input type="text" value="make"/>	
Build options	<input type="text"/>	
Build target	<input type="text"/>	

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[Home](#)

[My Account](#)

PROJECTS I OWN

[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)

[+ Add New Package](#)

Add New Package

Name * ✓

Archive * ✓ supported formats

Version * ✓

Package path * ✓

Package type * ✓

```
unzip java-source-package.zip
cd java-source-package
ant
```

Build system
Ant
JAVA SOURCE BUILD INFO

[Advanced settings](#)

Description (public) *

Comments

Advanced settings

Build path

Build file

Build options

Build target

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- [Home](#)
- [My Account](#)

- [PROJECTS I OWN](#)
- [My Project](#)

- [+ Add New Project](#)

- [PACKAGES I OWN](#)
- [My Package](#)

- [+ Add New Package](#)

Add New Package

Name *

✓

Archive *

java-bytecode-package.zip ✓ supported formats

Version *

✓

Package path *

✓

Package type *

✓

```
unzip java-bytecode-package.zip
cd java-bytecode-package
```

Class path *

Advanced settings

JAVA BYTECODE INFO

Advanced settings

Aux class path

Source path

zlib

Edit a Software Package

- From the Home screen select a Software Package to edit.

Version 20140310

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[Home](#)[My Account](#)

PROJECTS I OWN

[My Project](#)[+ Add New Project](#)

PACKAGES I OWN

[My Package](#)[+ Add New Package](#)

Recent Events

User Last Updated Profile

2014-02-10

You previously updated your profile.

User Last Logged In

2014-02-10

You previously logged in.

Project My Project Created

2014-02-06

Project My Test Project was created.

User Joined Project My Project

2014-02-06

User Joe Smith joined project My Test Project.

User Registered

2014-02-06

You registered for the SWAMP.

2. On the **Package Profile** screen Select **Edit Package**.

The screenshot shows the SWAMP software package profile interface. At the top, there is a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. The main content area has a title "My Package Package Profile". On the left, there is a sidebar with sections for Home, My Account, Projects I Own (My Project), and Packages I Own (My Package). Below these are buttons for Add New Project and Add New Package. The main right section displays package details: Package name (My Package), Creation date (2014-02-06), and a table of available versions. The table has columns for Version, Description, and Date. One version, 1.0, is listed with the description "This is my test package." and the date 2014-02-06 10:40. At the bottom of the main section are buttons for Add Version, Edit Package (which is highlighted with a red box), and Delete Package.

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

3. From this screen you can change the name of the Software Package. Type the revised name of the Software Package and select **Save**.

Welcome, swamp1999 < Sign Out

SWAMP About Contact Help

CONTINUOUS
ASSURANCE

Home My Account

PROJECTS I OWN
My Project

+ Add New Project

PACKAGES I OWN
My Package

+ Add New Package

Q Details

Edit My Package Package Profile

Name *

*Fields are required

✓ Save ✖ Cancel

4. You will receive confirmation of the change. Select **OK**.

Adding, Updating or Deleting a Software Package Version

View or Add a Version of a Software Package

From the **Packages I Own** tab in the left side bar you can view your Software Package or add a new version of your Software Package.

1. Select the software package you wish to update, and then select **Add Version**.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)



[Home](#) [My Account](#)

PROJECTS I OWN
[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN
[My Package](#)

[+ Add New Package](#)

[Details](#)

My Package Package Profile

Package name	My Package
Creation date	2014-02-06

The following versions of this software package are available:

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

[+ Add Version](#) [Edit Package](#) [Delete Package](#)

- From the **Add New Version** screen complete the fields on the form.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)



[Home](#) [My Account](#)

PROJECTS I OWN
[My Project](#)

[+ Add New Project](#)

PACKAGES I OWN
[My Package](#)

[+ Add New Package](#)

[Details](#)

Add New My Package Package Version

Archive *	<input type="file"/> No file chosen	supported formats
Version *	<input type="text"/>	
Package path *	<input type="text"/>	BUILD SCRIPT /configure make

Build system	Configure+Make	C/C++ BUILD INFO
Advanced settings		

Description (public) *	COMMENTS
------------------------	----------

Archive: Software Package to upload.

Version:	Revision of the uploaded software
Build script:	Script to run to build the package.
Package path:	A required field and is the name of the top level directory that is produced when the archive file is unarchived.
Package type:	This tells whether or not to invoke the build system to build the software from source code. From the dropdown menu choose C/C++, Java source code, or Java byte code.
Build system:	Name of the system to use to build the software. For C/C++, Make, Make+Configure, CMake+Make or other may be used. For Java source, Ant, Ant+Ivy or Maven could be chosen.

Advanced settings

Configure path:	The name of the directory relative to package-dir to change before running the configure command and is used only with C/C++ packages. <i>This is an optional field.</i>
Configure command:	The name of a command to configure the package before building. If undefined/empty, no command is run. This is only used for C/C++ packages. <i>This is an optional field.</i>
Configure options:	The name of options i.e. the arguments to pass to the configure command and is used only with C/C++. <i>This is an optional field.</i>
Build path:	It is the path to the directory related to the source path to change to before building. <i>This is an optional field and is used for C/C++/Java.</i>
Build file:	Used only with C/C++/Java source packages. It is the path to the build file related to the build path to use for the build systems except for the “Other” build command. For a build system type “Other”, the name of the file needs to be passed in the build options. This is only used with C/C++/Java source packages. <i>This is an optional field.</i>
Build command:	If a build system other than the ones listed above has to be used, “Other” from the build system menu has to be selected and a build command to execute the package

needs to be provided. This is optional and is used only C/C++ packages.

Build options: Name of the options and arguments to pass to the build command. Only for C/C++/Java source packages. *This is an optional field.*

Build target: The name of the file to be created by the build process. This target is passed to the build command. It is used only with C/C++/Java source. *This is an optional field.*

Description (public): A text description of the package that is visible to any user of the package.

Description (private): A text description of the package that is only visible to the owner of the project.

Deleting a Software Package

1. To delete a Software Package, navigate to the **Package Versions** screen. Select the X next to the version you wish to delete.

The screenshot shows the SWAMP software package profile page. At the top, there is a navigation bar with links for About, Contact, Help, Welcome (swamp1999), and Sign Out. On the left, there is a sidebar with links for Home, My Account, Projects I Own (My Project), Add New Project, Packages I Own (My Package), and Add New Package. The main content area has a title 'My Package Package Profile'. Below the title, it shows the package name 'My Package' and creation date '2014-02-06'. It then lists the available versions of the package:

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

Next to the 'Date' column for the version 1.0 is a small red-bordered square containing a white 'X' icon, which is a standard delete symbol. At the bottom of the table, there are three buttons: '+ Add Version', 'Edit Package', and 'Delete Package'. The 'Delete Package' button is also enclosed in a red rectangle, indicating it is the target of the first step in the deletion process.

2. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete or **Cancel** to cancel your request.

Software Package Sharing: Private, Public, or Protected

You can share your Software Packages in one of three modes:

- Private
- Public
- Protected

Private: Only the Project Owner can see Software Packages.

Public: Every SWAMP user can see Software Packages.

Protected: Project Owners can choose to share Software Packages with selected Projects and by default with members of the selected Project.

1. Navigate to the **Package Profile** screen.
2. Select the Software Package version you wish to link with the project you have chosen.

The screenshot shows the SWAMP software package profile interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. On the left, there is a sidebar with icons for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), 'PACKAGES I OWN' (with 'My Package' selected), and '+ Add New Project' and '+ Add New Package' buttons. The main content area has a title 'My Package Package Profile'. It displays package details: 'Package name: My Package' and 'Creation date: 2014-02-06'. Below this, it says 'The following versions of this software package are available:' and lists a single version: 'Version: 1.0', 'Description: This is my test package.', and 'Date: 2014-02-06 10:40'. There is also a red 'x' button next to the version entry. At the bottom of the main content area are buttons for '+ Add Version', 'Edit Package', and 'Delete Package'.

3. The **Package Sharing** screen appears.

The screenshot shows the SWAMP software interface. At the top, there's a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. On the left, a sidebar has sections for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package' selected), and '+ Add New Package'. The main content area is titled 'My Package 1.0 Package Version Sharing'. It shows sharing options: 'Private' (package is private and can only be seen by the package owner), 'Public' (package is public and may be seen by any SWAMP user), and 'Protected' (selected, showing a list of projects it's shared with). A table lists 'My Test Project' under 'Protected' sharing, affiliated with 'Morgridge Institute for Research'. At the bottom right of the sharing section are 'Save' and 'Cancel' buttons, with 'Save' being highlighted with a red box.

4. Select the radio button to choose what level of access to the Software Package you wish to give SWAMP users. When choosing Protected, select the Projects with which you wish to share your Software Package.
5. Protected must be chosen to share your Software Package version with a Project.
6. Select **Save**.

****Note:** You do not have to be a Project Owner to upload a Package to the SWAMP.

Part 4: Assessments

Managing Assessment Runs

After an Assessment Run has been scheduled, the Assessment Run will proceed through three states listed below:

1. **SCHEDULED:** The Scheduled state happens after you create a Run Request for the Assessment Run.
2. **Starting virtual machine:** The system is setting up the environment for the Assessment Run.
3. **Submitted to HTCondor:** The Assessment Run job has been submitted to HTCondor for execution.
4. **Performing Assessment:** The Assessment Run is being executed.
5. **Finished:** The scheduled Run Request has completed and Assessment Results are available.
6. **Finished with errors:** Your build has failed due to an incorrect Build System and/or incompatibilities between the Software Package and the selected Platform.
7. **Unable to run, queued or Unable to start VM:** There are incompatibilities between the chosen Platform and Software Package.

****Note:** You can view the details of each stage by selecting the current status under the **Status** field.

Add an Assessment Run

1. Select **Add Assessment**. From each dropdown menu:
 1. Choose a Software Package and its version.
 2. Choose an Assessment Tool and its version.
 3. Choose a Platform and its version.
2. Select **Save**.

The screenshot shows the SWAMP web application interface. At the top, there's a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. Below the navigation is a header with tabs: Details, Members, Assessments (which is selected), Run Requests, Runs, and Results. The main content area has a title 'Add My Project Assessment'. On the left, a sidebar shows 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package' selected), and '+ Add New Package'. The main form has three sections: 'Package' (Select a package to assess: Apache HTTP, Select a version: Latest), 'Tool' (Select a tool to perform the assessment: Clang Static Analyzer, Select a version: Latest), and 'Platform' (Select a platform to use: Debian Linux, Select a version: Latest). At the bottom right of the form are two buttons: a brown 'Save' button with a checkmark icon and a white 'Cancel' button with a cross icon. The 'Save' button is highlighted with a red rectangular border.

3. You will receive a confirmation message. Select **OK**.

Delete an Assessment Run

1. To delete an Assessment Run, navigate to the **Assessments** screen. Select the **X** to the right of the Assessment Run you wish to delete.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar, there is a search bar and a menu with options: 'Details', 'Members', 'Assessments' (which is highlighted in orange), 'Run Requests', 'Runs', and 'Results'. The main content area is titled 'My Project Assessments'. It displays a table of assessments defined for the project 'My Test Project'. The table has columns for 'Package', 'Tool', and 'Platform'. Each row contains three items: Apache HTTP (latest), Clang Static Analyzer (latest), and Debian Linux (latest). To the right of each 'Platform' entry is a small orange square button with a white 'X' inside, which is highlighted with a red box. Below the table is a button labeled '+ Add Assessment'.

Package	Tool	Platform
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest
Clojure latest	Findbugs latest	Fedora Linux latest
Jenkins latest	PMD latest	Ubuntu Linux latest

2. Select **OK** to confirm that you wish to delete the Assessment Run.
3. You will receive a confirmation that the Assessment Run has been deleted. Select **OK**.

Schedule a Run Request

1. Select the **Run Request** tab and then select **Add Run Requests**.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar is a search bar with options for 'Details', 'Members', 'Assessments', 'Run Requests' (which is highlighted with a red box), 'Runs', and 'Results'. The main content area has a title 'My Project Assessment Run Requests'. It displays a table of current run requests, which includes columns for Package, Tool, Platform, and Schedule. The table lists three entries: Apache HTTP, Clang Static Analyzer, Debian Linux; Clojure, Findbugs, Fedora Linux; and Jenkins, PMD, Ubuntu Linux. Each entry has a delete icon ('x') next to it. Below the table are two buttons: '+ Add Run Requests' (highlighted with a red box) and 'Edit Schedules'.

Package	Tool	Platform	Schedule
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest	One-time
Clojure latest	Findbugs latest	Fedora Linux latest	One-time
Jenkins latest	PMD latest	Ubuntu Linux latest	Mondays

2. On the **Add Run Requests** screen, select the **checkbox** in front of the Run Request you wish to schedule, and then select **Schedule Run Requests**.

Welcome, swamp1999 [Sign Out](#)

Add My Project Run Requests

Please select one or more assessments from the list below to run:

Package	Tool	Platform
<input type="checkbox"/> Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest
<input type="checkbox"/> Clojure latest	Findbugs latest	Fedora Linux latest
<input type="checkbox"/> Jenkins latest	PMD latest	Ubuntu Linux latest

[Schedule Run Requests](#) [Cancel](#)

Run Request Scheduling Options

You can schedule Assessment Runs **One-time** or **On a repeated schedule**. Multiple runs can be scheduled simultaneously:

- **One-time:** A One-time Run Request assesses a selected Software Package only once.
- **On a repeated schedule:** With the repeated schedule option, the user could choose to schedule Assessment Runs on a regular basis such as daily, weekly or monthly at a selected time. This feature is helpful when the user edits the package regularly and wants to perform an Assessment Run with the same tool on the same platform every time the package is modified or updated.

One-time Runs

1. The schedule defaults to one-time on the **Schedule Run Request** screen.
2. If you want to schedule a recurrent Run Request, select **Edit Schedules**.
3. If you want to execute your Assessment Run as soon as possible, select **Submit**.

Adding a New Run Request

1. From the Run Request screen, select **Edit Schedules**.
2. Select **Add Schedule**

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Help, Welcome (swamp1999), and Sign Out. Below the navigation bar, there is a header with links for Details, Members, Assessments, Run Requests (which is highlighted in orange), Runs, and Results.

The main content area is titled "My Project Run Request Schedules". It displays a table of existing schedules:

Name	Description
One-time	Run once as soon as possible
Mondays	At 9:00 AM each Monday.
Fridays	At 5:00 PM each Friday.

At the bottom of the schedule list, there are two buttons: "+ Add Schedule" (highlighted with a red box) and "Cancel".

On the left side of the page, there is a sidebar with links for Home, My Account, Projects I Own (with "My Project" selected), Add New Project, Packages I Own (with "My Package" selected), and Add New Package.

3. On the **Define Run Request Schedule** screen, type a name for your schedule. For example, "Tuesdays at 8 a.m."

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) **Run Requests** Runs Results

Add My Project Run Request Schedule

Name *

Description *

Run Requests *Fields are required
No run requests have been defined.

[+ Add Request](#) [Save](#) [Cancel](#)

Home
My Account

PROJECTS I OWN
My Project

[+ Add New Project](#)

PACKAGES I OWN
My Package

[+ Add New Package](#)

4. Type a description. For example, “Run the assessment every Tuesday at 8 a.m.”

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) **Run Requests** Runs Results

Add My Project Run Request Schedule

Name *

Description *

Run Requests *Fields are required
No run requests have been defined.

[+ Add Request](#) [Save](#) [Cancel](#)

Home
My Account

PROJECTS I OWN
My Project

[+ Add New Project](#)

PACKAGES I OWN
My Package

[+ Add New Package](#)

5. Select **Add Request**.
6. In the **Type** dropdown menu select **Daily**, **Weekly**, or **Monthly**.
 - For Daily runs select the time.
 - For Weekly runs select the day and time.
 - For Monthly runs select the date and time.
7. Additional run times can be added to your Run Request schedule.

The screenshot shows the SWAMP application interface. At the top, there's a navigation bar with links for About, Contact, Help, Welcome (swamp1999), and Sign Out. Below the navigation is a search bar and a menu with links for Details, Members, Assessments, Run Requests (which is selected and highlighted in orange), Runs, and Results. The main content area has a title 'Add My Project Run Request Schedule'. On the left, there's a sidebar with sections for Home, My Account, Projects I Own (with 'My Project' selected), and Packages I Own (with 'My Package'). The main form area contains fields for 'Name *' (Monday mornings) and 'Description *' (Each Monday morning at 9:00 a.m.). Below these are three dropdown menus for 'Run Requests': 'Type' (Weekly, highlighted with a red box), 'Day' (Monday), and 'Time' (09:00 AM). At the bottom of the form are three buttons: '+ Add Request', 'Save' (highlighted with a red box), and 'Cancel'.

8. Select **Save**.
9. You will receive a confirmation message. Select **OK**.

Viewing Run Request Schedules and Results

1. View your scheduled runs on the **Run Request Schedules** screen.

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[Home](#) [My Account](#)

PROJECTS I OWN

- My Project** (highlighted)
- [+ Add New Project](#)

PACKAGES I OWN

- [My Package](#)
- [+ Add New Package](#)

[Run Requests](#) (highlighted)

My Project Run Request Schedules

The following schedules are available to project My Test Project:

Name	Description
One-time	Run once as soon as possible
Mondays	At 9:00 AM each Monday.
Fridays	At 5:00 PM each Friday.

[+ Add Schedule](#) [Cancel](#)

- Select the **Run Requests** tab to view the status of an Assessment Run.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)



[Home](#) [My Account](#)

PROJECTS I OWN

- My Project** (highlighted)
- [+ Add New Project](#)

PACKAGES I OWN

- [My Package](#)
- [+ Add New Package](#)

[Run Requests](#) (highlighted)

My Project Assessment Runs

Filters [Date](#) [Package](#) [Tool](#) [Platform](#) [Limit](#) [Reset](#)

The following assessment runs are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.

Date / Time	Package	Tool	Platform	Status
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	Finished
2014-02-07 14:49	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	performing assessment

3. When an Assessment Run is done, select the **Results** tab to view the Assessment Results. Above the **Details** column select **View** and the desired viewer to see the results of your assessment run.

4. Results can be viewed in Native or Code Dx viewers.

*****Note:** For more information on Code Dx please visit
<http://secureddecisions.com/products/codedx/>

The screenshot shows the SWAMP application interface. On the left, there's a sidebar with links for Home, My Account, Projects I Own (with 'My Project' highlighted), and Packages I Own (with 'My Package'). The main content area is titled 'My Project Assessment Results'. At the top of this section, there's a navigation bar with links for Details, Members, Assessments, Run Requests, Run, and Results (which is highlighted with a red box). Below the navigation bar are several filter buttons: Date, Package, Tool, Platform, Limit, and Reset. A message states: 'The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.' To the right of the message is a 'View' dropdown menu, which is also highlighted with a red box. Below the message is a table with the following data:

Date / Time	Package	Tool	Platform	Details
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	<input type="checkbox"/>

PMD 5.0.4 Report

2013-09-29 - 17:28:42

Summary

Files	Total	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
.home.vmrn.pegasus-source-4.2.2/src.edu.isi.pegasus.planner.parser.InvocationParser	497	3398	45	139	2620	594

.home.vmrn.pegasus-source-4.2.2/src.edu.isi.pegasus.planner.parser.InvocationParser

Prio	Begin Line	Method	Description
3	15		Possible God class (WMC=283, ATFD=135, TCC=0.003952569169960474)
3	106		Private field 'm_forward' could be made final; it is only initialized in the declaration or constructor.
3	112		Private field 'm_reverse' could be made final; it is only initialized in the declaration or constructor.
3	117		Private field 'm_coarse' could be made final; it is only initialized in the declaration or constructor.
3	122		Private field 'm_fine' could be made final; it is only initialized in the declaration or constructor.
3	127		Private field 'm_log' could be made final; it is only initialized in the declaration or constructor.
3	172		When instantiating a SimpleDateFormat object, specify a Locale
2	173		When instantiating a SimpleDateFormat object, specify a Locale

- Above is an example of detailed results from an assessment run in the Native Viewer.

Projects Logged in as swamp

Jenkins » Analysis Run 1 Created on 2/18/2014 Uploaded on 2/18/2014 37,452 total weaknesses

Options ▾

Weakness Flow

Filters

Weakness count 37,452 / 37,452

Tool

- PMD (100%)
 - Basic (0.3%)
 - Braces (9.4%)
 - Clone Implementation (< 0.1%)
 - Code Size (1.9%)
 - Comments (18.1%)
 - Controversial (18.6%)

Severity

- Low (11.2%)
- Medium (84.9%) **Selected**
- High (3.9%)

Codebase Location

Tool Overlaps

CWE

Status

New (100%)

Displaying all weaknesses

Bulk Operations for the 37,452 matching weaknesses

Select a status... ▾ Generate Report... ▾

Weaknesses				
ID	Rule	Severity	Codebase Location	Status
68910	Avoid reassigning parameters	High	SequenceOutputStream.java	New ▾
68909	Avoid reassigning parameters	High	SequenceOutputStream.java	New ▾
68887	Avoid printing debug logs	High	FullDuplexHttpStream.java	New ▾
68883	Avoid printing debug logs	High	FullDuplexHttpStream.java	New ▾
68882	Avoid printing debug logs	High	FullDuplexHttpStream.java	New ▾
68881	Avoid printing debug logs	High	FullDuplexHttpStream.java	New ▾
68842	Avoid throwing raw exception types	High	Connection.java	New ▾
68709	Avoid printing debug logs	High	CLI.java	New ▾
68708	Avoid printing debug logs	High	CLI.java	New ▾
68680	Avoid throwing raw exception types	High	CLI.java	New ▾
68631	Avoid printing debug logs	High	CLI.java	New ▾
68629	Avoid printing debug logs	High	CLI.java	New ▾
68627	Avoid printing debug logs	High	CLI.java	New ▾
68625	Avoid printing debug logs	High	CLI.java	New ▾
68616	Avoid branching statements as the last p...	High	CLI.java	New ▾
68598	Avoid printing debug logs	High	CLI.java	New ▾

- Above is an example of an assessment run in the Code Dx viewer.

Cppcheck 1.61 Report

Summary

Total	error	warning	style	performance	portability	information
2	0	1	0	0	1	0

Severity	File	Line	Message
warning	snappy-c-master/sgverify.c	180	%d in format string (no. 4) requires a signed integer given in the argument list.
portability	snappy-c-master/sgverify.c	44	'p' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined. Arithmetic on void pointers is undefined.

- Above is an example of results from an assessment run using the tool Cppcheck displayed in the Native viewer.

clang version 3.3 (tags/RELEASE_33/final) Target: x86_64-unknown-linux-gnu Thread model: posix Report

Summary

Total	API	Dead store	Logic error	Memory Error	Security	Unix API
4	0	1	1	0	0	2

Category	File	Line	Message
Dead store	snappy-c-master/scmd.c	111	Value stored to 'err' is never read
Logic error	snappy-c-master/snappy.c	284	The left operand of '<' is a garbage value
Unix API	snappy-c-master/sgverify.c	40	Call to 'malloc' has an allocation size of 0 bytes
Unix API	snappy-c-master/sgverify.c	116	Call to 'malloc' has an allocation size of 0 bytes

- Above is an example of results from an assessment run using the tool Clang Static Analyzer displayed in the Native viewer.

gcc-warn v4.7.2 (Debian 4.7.2-5) Report

Summary

Total
152

Group	File	Line	Column	Message
warning	scmd.c	14	6	no previous prototype for 'usage'
warning	scmd.c	26	5	no previous prototype for 'match_suffix'
warning	scmd.c	28	21	conversion to 'int' from 'size_t' may alter its value
warning	scmd.c	32	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	36	5	no previous prototype for 'open_output'
warning	scmd.c	44	19	conversion to 'int' from 'size_t' may alter its value
warning	scmd.c	46	22	conversion to 'size_t' from 'int' may change the sign of the result
warning	scmd.c	49	3	passing argument 2 of 'match_suffix' discards 'const' qualifier from pointer target type
warning	scmd.c	89	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	95	3	passing argument 2 of 'match_suffix' discards 'const' qualifier from pointer target type
warning	scmd.c	107	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	137	8	assignment discards 'const' qualifier from pointer target type
warning	scmd.c	145	29	comparison between signed and unsigned integer expressions
warning	scmd.c	14	6	function might be candidate for attribute 'noreturn'
warning	scmd.c	26	5	function might be candidate for attribute 'pure'
warning	snappy.c	79	3	cast discards '__attribute__((const))' qualifier from pointer target type

- Above is an example of results from an assessment run using the tool Gcc displayed in the Native viewer.

Filtering Assessment Runs and Results

As assessment runs and results are added, it may become difficult to quickly find the results or assessment runs you wish to view. Under the Runs tab and Results tab, there is the option to filter through your Assessment Runs or Results with up to 5 different filtering choices. You may choose more than one option. Each additional filter chosen will further restrict the set of returned results.

SWAMP users have the options to filter by **Date** (date A to date B), **Package**, **Tool**, **Platform**, and/or **Limit** (Maximum number of results to display). Follow the steps below to begin filtering.

1. Select the **Runs** tab or the **Results** tab
2. Select the first filtering option from the **Filters** tab above your Assessment Runs or Results
3. Select additional filter options as desired
4. Filtering results are automatically displayed below as each filter option is added or changed
5. Select the **X** to the right of the screen at anytime to remove a filtering option or filtering options
6. Select the **Reset** button from the **Filters** tab to reset all filtering options

The following screen shots reference the **Date** filter.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar, there is a search bar and a series of tabs: 'Details', 'Members', 'Assessments', 'Run Requests', 'Runs' (which is highlighted in orange), and 'Results'. On the left side, there is a sidebar with a logo for 'CONTINUOUS INTEGRITY ASSESSMENT' and links for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' highlighted in orange), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package' highlighted in orange), and '+ Add New Package'. In the main content area, the title 'My Project Assessment Results' is displayed. Below the title, there is a 'Filters' section with several buttons: 'Date' (which is highlighted with a red box), 'Package', 'Tool', 'Platform', 'Limit', and 'Reset'. Underneath the filters, there is a 'Date filter' input field with 'From' and 'To' fields, both of which are highlighted with a red box. Below the date filter, a message states: 'The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.' To the right of this message is a 'View' dropdown menu. At the bottom, there is a table displaying assessment results:

Date / Time	Package	Tool	Platform	Details
2014-02-24 16:01	Jenkins 1.517	PMD 5.0.4	Ubuntu Linux 12.04 LTS Lucid Lynx 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61 Debian-7.0-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>

SWAMP [About](#) [Contact](#) [Help](#) Welcome, amegahed [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) [Run Requests](#) [Runs](#) [Results](#)

Test Assessment Results

Filters [Date](#) [Package](#) [Tool](#) [Platform](#) [Limit](#) [Reset](#)

Date filter

From To

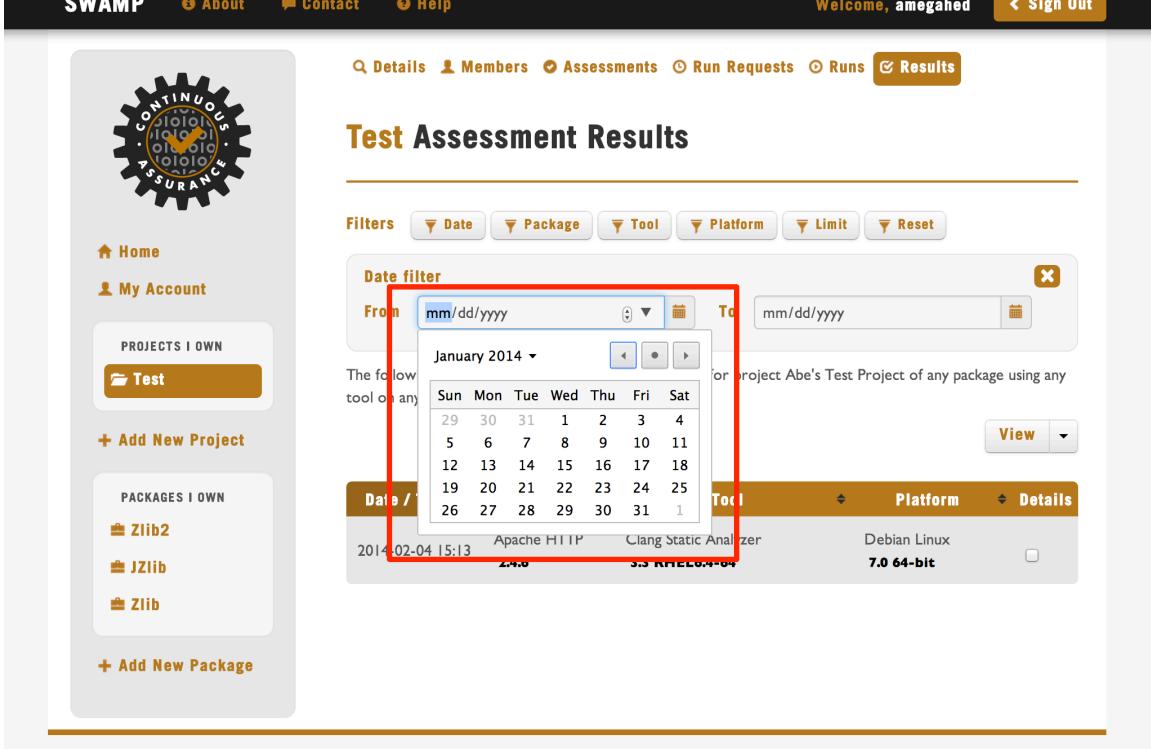
The following tool or any tool on any platform can be used to assess any package in any project.

January 2014 [View](#)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Tool Platform Details

2014-02-04 15:13 Apache HTTP Clang Static Analyzer Debian Linux
2.4.3 3.3 RELEASE-04-04 7.0 64-bit



The following screen shot references the **Package** filter option.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)

[Details](#) [Members](#) [Assessments](#) [Run Requests](#) [Runs](#) [Results](#)

My Project Assessment Results

Filters [Date](#) [Package](#) [Tool](#) [Platform](#) [Limit](#) [Reset](#)

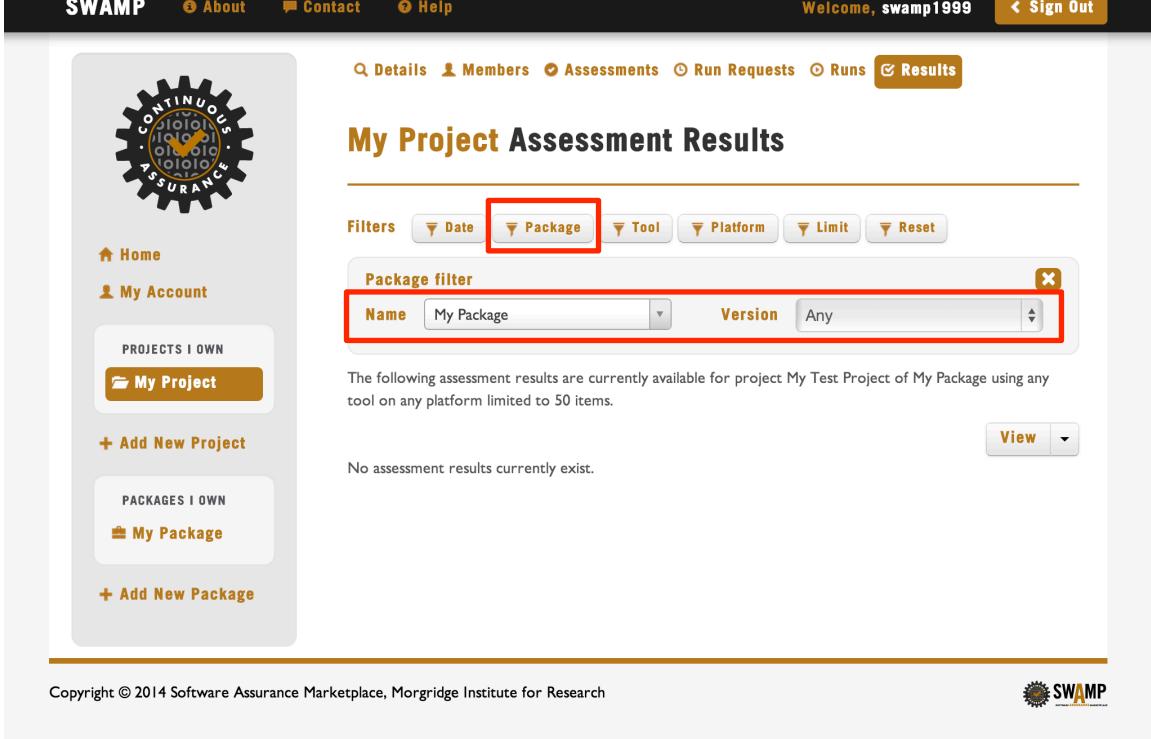
Package filter

Name Version

The following assessment results are currently available for project My Test Project of My Package using any tool on any platform limited to 50 items.

No assessment results currently exist.

View



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SWAMP

The following screen shot references the **Tool** filter option.

This screenshot shows the SWAMP application's user interface. On the left, there is a sidebar with navigation links: Home, My Account, Projects I Own (with 'My Project' selected), Add New Project, Packages I Own (with 'My Package' selected), and Add New Package. The main content area is titled 'My Project Assessment Results'. At the top of this area are several filter buttons: Details, Members, Assessments, Run Requests, Runs, and Results. The 'Tool' button is highlighted with a red box. Below these filters is a 'Tool filter' dialog box, also highlighted with a red box. It contains two dropdown menus: 'Name' set to 'My Tool' and 'Version' set to 'Any'. A message below the filter says, 'The following assessment results are currently available for project My Test Project of any package using My Tool on any platform limited to 50 items.' A 'View' button is present at the bottom right of the main content area. At the bottom of the page, there is a copyright notice: 'Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research' and the SWAMP logo.

The following screen shot references the **Platform** filter option.

This screenshot shows the SWAMP application's user interface, similar to the previous one but with different filter settings. The sidebar and main content area are identical. The 'Tool' filter is no longer highlighted. Instead, the 'Platform' filter is highlighted with a red box. Below it is a 'Platform filter' dialog box, also highlighted with a red box. It contains two dropdown menus: 'Name' set to 'Debian Linux' and 'Version' set to 'Any'. A message below the filter says, 'The following assessment results are currently available for project My Test Project of any package using any tool on Debian Linux limited to 50 items.' A 'View' button is present at the bottom right of the main content area. The main content area now displays a table of assessment results:

Date / Time	Package	Tool	Platform	Details
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61 Debian-7.0-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 15:59	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 15:59	snappy-c	Clang Static Analyzer	Debian Linux	

The following screen shot references the **Limit** filter option.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. Below the navigation bar is a search bar and a menu with options: Details, Members, Assessments, Run Requests, Runs, and Results. The main title is "My Project Assessment Results". Below the title is a toolbar with filters: Date, Package, Tool, Platform, Limit (which is highlighted with a red box), and Reset. A "Limit filter" dialog box is open, showing the input field "Maximum # of results to display" with the value "50". Below the dialog, a message states: "The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items." There is a "View" button with a dropdown arrow. The main content area displays a table of assessment results:

Date / Time	Package	Tool	Platform	Details
2014-02-24 16:01	Jenkins 1.517	PMD 5.0.4	Ubuntu Linux 12.04 LTS Lucid Lynx 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61 Debian-7.0-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>

Delete a Scheduled Run Request

1. To delete a scheduled **Run Request** select the check box to the right of the run.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. Below the navigation bar, there is a search bar and several tabs: 'Details', 'Members', 'Assessments', 'Run Requests' (which is highlighted in orange), 'Runs', and 'Results'. On the left side, there is a sidebar with a logo for 'CONTINUOUS ASSURANCE' and sections for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package'), and '+ Add New Package'. The main content area is titled 'My Project Assessment Run Requests'. It displays a table of run requests for project 'My Test Project'. The table has columns for 'Package', 'Tool', 'Platform', and 'Schedule'. There are three rows in the table:

Package	Tool	Platform	Schedule
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest	One-time
Clojure latest	Findbugs latest	Fedora Linux latest	One-time
Jenkins latest	PMD latest	Ubuntu Linux latest	Mondays

Below the table are two buttons: '+ Add Run Requests' and 'Edit Schedules'. A red box highlights the 'Edit Schedules' button.

2. You will be asked to confirm the deletion. Select **OK** to delete the **Run Request** or **Cancel** to cancel your request.

Obtaining Universal Unique Identifier (UUID)

A UUID is assigned to each assessment run and helps support staff address a support ticket without requiring personal information. The UUID may be asked for when submitting a support ticket. To view the Execution Record of the Assessment Run, follow the steps below

1. Select the **Runs** tab
2. Select the link under the **Status** field

SWAMP [About](#) [Contact](#) [Help](#)

Welcome, swamp1999 [Sign Out](#)



[Home](#) [My Account](#)

PROJECTS I OWN

- [My Project](#) **My Project**
- [+ Add New Project](#)

PACKAGES I OWN

- [My Package](#) **My Package**
- [+ Add New Package](#)

Filters [Date](#) [Package](#) [Tool](#) [Platform](#) [Limit](#) [Reset](#)

The following assessment runs are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.

Date / Time	Package	Tool	Platform	Status
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	Finished
2014-02-07 14:49	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	performing assessment

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Welcome, swamp1999 [Sign Out](#)



[Home](#) [My Account](#)

PROJECTS I OWN

- [My Project](#) **My Project**
- [+ Add New Project](#)

PACKAGES I OWN

- [My Package](#) **My Package**
- [+ Add New Package](#)

Assessment Run UUID **0c6eac8e-1426-96da-c422-399065c65ba4**

Package	Clojure 1.5.1
Tool	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)
Platform	Fedora Linux 19 64-bit
Status	Finished
Create date	2014-02-07 14:51:09
Run date	2014-02-07 14:51:26
Completion date	2014-02-07 14:57:09
Execution duration	00:05:43
Lines of code	36619

OK

*****The following sections referring to Assessment Tools will be a future capability in the SWAMP and are currently under development.*****

Part 5: Assessment Tools

Managing Assessment Tools

A SWAMP user may upload Assessment Tool(s) he/she has developed and then test the Assessment Tool against publically available Software Packages or personally uploaded Software Packages.

Adding Assessment Tools

1. From left side panel on any screen, select **Add New Tool**.
2. Complete the fields on the form.

The screenshot shows the SWAMP web application interface. At the top, there's a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. On the left, a sidebar contains links for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package' selected), '+ Add New Package', and '+ Add New Tool' (which is highlighted with a red border). The main content area is titled 'Add New Tool'. It includes fields for 'Name *' (text input), 'File *' (file upload input showing 'No file chosen'), 'Version *' (text input), 'Tool directory' (text input), 'Tool executable *' (text input), 'Tool arguments' (text input), 'Description (public) *' (large text area), 'Comments' (text area), and 'Description (private)' (text area).

Name:

Name of the Assessment Tool.

File:

File to upload to SWAMP.

Version:

Revision of the uploaded Assessment Tool.

Tool directory:

Top level directory within the archive.

Tool executable:

Command to invoke tool.

Tool arguments:	Arguments to pass to the tool.
Deployment command:	The command used to install the Assessment Tool.
Description (public):	Description of the Assessment Tool to those who have access to it.
Description (private):	Private description and comments for the Owner of the Assessment Tool.

SWAMP [About](#) [Contact](#) [Help](#) Welcome, swamp1999 [Sign Out](#)



Add New Tool

Name *	<input type="text" value="My Tool"/> 
File *	<input type="file" value="Choose File"/> mytool-1.0.tar 
Version *	<input type="text" value="1.0"/> 
Tool directory	<input type="text" value="mytool"/> 
Tool executable *	<input type="text" value="mytool"/> 
Tool arguments	<input type="text"/>
Description (public) *	<input type="text" value="This is my software analysis tool."/> 
COMMENTS	
Description (private)	<input type="text"/>

3. Select **Submit** to upload your Assessment Tool. You will receive a notification once the upload is complete.

Editing an Assessment Tool

1. From the left side bar of any screen select an **Assessment Tool** to edit.

SWAMP     Welcome, swamp1999 

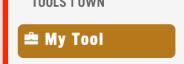

[Home](#) [My Account](#)

PROJECTS I OWN
[My Project](#)

+ Add New Project

PACKAGES I OWN
[My Package](#)

+ Add New Package

TOOLS I OWN
[My Tool](#) 
[+ Add New Tool](#)

Details  My Tool Tool Profile

Tool name: My Tool
Creation date: 2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

2. On the **Tool Profile** screen select **Edit Tool**.

SWAMP    Welcome, swamp1999 


[Home](#) [My Account](#)

PROJECTS I OWN
[My Project](#)

+ Add New Project

PACKAGES I OWN
[My Package](#)

+ Add New Package

TOOLS I OWN
[My Tool](#) 
[+ Add New Tool](#)

Details  My Tool Tool Profile

Tool name: My Tool
Creation date: 2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

3. From this screen you can change the name of the Assessment Tool. Type the name of the Assessment Tool and select **Save**.
4. You will receive confirmation of the change. Select **OK**.

The screenshot shows the 'Edit My Tool Tool Profile' page. On the left, there's a sidebar with links for Home, My Account, Projects I Own (My Project), Add New Project, Packages I Own (My Package), Add New Package, Tools I Own (My Tool, highlighted in orange), and Add New Tool. The main content area has a 'Name *' field with 'My Tool' typed in, a 'Save' button (highlighted with a red box), and a 'Cancel' button. A note at the bottom right says '*Fields are required'.

Adding, Updating, or Deleting an Assessment Tool Version

Viewing or Adding a Version of an Assessment Tool

From the **Tool Profile** screen you can view your Assessment Tool or add a new version of your Assessment Tool. Follow the steps below to add a new version of your Assessment Tool.

1. Select **Versions**.

The screenshot shows the SWAMP software interface. At the top, there's a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. The main content area is titled "My Tool Tool Profile". It displays basic information: Tool name (My Tool), Creation date (2014-02-18). Below this, it says "The following versions of this software tool are available:" and lists one version: Version 1.0 (Description: This is my software analysis tool, Date: 2014-02-18 14:15). At the bottom of this list are three buttons: "+ Add Version" (highlighted with a red box), "Edit Tool", and "Delete Tool".

2. On the **Tool Versions** screen select **Add Version**.
3. On the **Add New Tool** screen complete the fields on the form and select **Submit**.

Name:	Name of the Assessment Tool.
File:	File to upload to SWAMP.
Version:	Revision of the uploaded Assessment Tool.
Tool directory:	Top level directory within the archive.
Tool executable:	Command to invoke tool.
Tool arguments:	Arguments to pass to the tool.
Deployment command:	The command used to install the Assessment Tool.
Description (public):	Description of the Assessment Tool to those who have access to it.
Description (private):	Private description and comments for the Owner of the Assessment Tool.

Deleting a Tool

1. To delete an Assessment Tool, from the left pane on any screen under **TOOLS I OWN**, select an Assessment Tool to delete.
2. On the **Tool Profile** screen select **Delete Tool** or the **X** to right side of the screen.

The screenshot shows the SWAMP software interface. At the top, there is a navigation bar with links for 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. On the left, there is a sidebar with icons for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project'), '+ Add New Project', 'PACKAGES I OWN' (with 'My Package'), '+ Add New Package', 'TOOLS I OWN' (with 'My Tool' highlighted in orange), and '+ Add New Tool'. The main content area is titled 'My Tool Tool Profile'. It displays the tool's name ('My Tool'), creation date ('2014-02-18'), and a description ('This is my software analysis tool'). Below this, there is a table with columns for 'Version', 'Description', and 'Date'. A row for version 1.0 is shown. To the right of the table, there are three buttons: '+ Add Version', 'Edit Tool', and 'Delete Tool'. The 'Delete Tool' button is highlighted with a red box.

3. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete the Assessment Tool or **Cancel**.

Assessment Tool Sharing: Private, Public or Protected

You can share your Assessment Tools in one of three modes:

- Private
- Public
- Protected

Private: Only the Project Owner can see Assessment Tools.

Public: Every SWAMP user can see Assessment Tools.

Protected: Project Owners can choose to share Assessment Tool with selected Projects and by default with members of the selected Project.

1. Navigate to the **Tool Profile** screen.
2. Select the **Assessment Tool** version you wish to link with the project you have chosen.

3. Select **Sharing** tab at the top of the screen.

The screenshot shows the SWAMP software tool profile page. At the top, there is a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. Below the navigation bar, there is a sidebar on the left containing links for Home, My Account, Projects I Own (My Project, Add New Project), Packages I Own (My Package, Add New Package), Tools I Own (My Tool, Add New Tool). The main content area is titled "My Tool Tool Profile". It displays basic information: Tool name (My Tool), Creation date (2014-02-18). Below this, it says "The following versions of this software tool are available:" and lists a single version: Version 1.0, Description (This is my software analysis tool.), Date (2014-02-18 14:15). At the bottom of this section are buttons for "+ Add Version", "Edit Tool", and "Delete Tool". The "Sharing" tab is highlighted with a red box.

4. The **Package Sharing** screen appears.

The screenshot shows the SWAMP software tool sharing configuration page. At the top, there is a navigation bar with links for About, Contact, Help, Welcome, swamp1999, and Sign Out. Below the navigation bar, there is a sidebar on the left containing links for Home, My Account, Projects I Own (My Project, Add New Project), Packages I Own (My Package, Add New Package), Tools I Own (My Tool, Add New Tool). The main content area is titled "My Tool Tool Sharing". It shows sharing options: Private (This tool is private and can only be seen by the tool owner.), Public (This tool is public and may be seen by any SWAMP user.), and Protected (This tool is shared with members of the following projects: My Test Project, Morgridge Institute for Research). The "Protected" option is selected and highlighted with a red box. At the bottom, there are "Save" and "Cancel" buttons, with the "Save" button highlighted with a red box.

5. Select the radio button to choose what level of access to the **Assessment Tool** you wish to give SWAMP users. When choosing Protected, select the Projects with which you wish to share your **Assessment Tool**.
6. Protected must be chosen to share your **Assessment Tool** version with a Project.
7. Select **Save**.

Part 6: Helpful Resources

Troubleshooting

Status field indicates, “**Finished with errors.**”

After an assessment run has been completed the status of the run will be displayed, if your run has “finished with errors” this means that the build has failed due to an incorrect Build System and/or the selected package is not compatible with the selected platform.

1. Check to make sure the correct **Build System** is chosen
2. Check to make sure the selected **Package** and **Platform** are correct and compatible
3. You can view the results of the failed build by selecting the **Native** viewer and downloading the .tar ball file.
4. The .txt file can then be viewed to determine where the assessment run failed.

Status field indicates, “**Unable to run, queued or Unable to start VM.**”

The selected **Package** and selected **Platform** are incompatible

1. Check to make sure the correct **Package** and **Platform** have been selected.
2. If an incompatible **Package** or **Platform** have been chosen, select the version of the **Package** you are trying to run an assessment on
3. Select **Edit** at the bottom of the screen to change the **Platform**
4. Change the **Platform** to the compatible **Platform**
5. Select **Save**

Submitting a Support Ticket

1. Obtain the Unique Universal Identifier (UUID) for a support ticket
2. Select the **Runs** tab
3. Select the link under the **Status** field
4. Navigate to <https://ticket.continuousassurance.org> to submit a support ticket

Glossary

Assessment Run: Specifies one Tool to assess one Software Package on one operating system Platform.

Assessment Tool: An Assessment Tool analyzes a Software Package to find weaknesses that could lead to security vulnerabilities. One person owns an Assessment Tool.

Continuous Software Assurance: A process that affirms software functions as intended, free from vulnerabilities intentionally or unintentionally inserted into the code. This is achieved through continuous assessments.

Execution Record: Displays statistics about the scheduled Assessment Run.

Owner: A User that has requested ownership privileges and has been vetted by a SWAMP Administrator, who owns a Project and/or Software Package, (Future Option: Assessment Tool).

Platform: The operating system environment in which an Assessment Run occurs.

Project: A person or group of people working together for a common purpose, for example to create better assessment tools, and/or to mitigate weaknesses in Software Packages.

Project Member: A person who has accepted an invitation to join a SWAMP project. Project Members are able to create Assessment Runs, schedule Run Request, and view Assessment Results.

Run Request: A request to execute one or more Assessment Runs as soon as possible after the requested time. Project Members can schedule Run Requests to occur daily, weekly, or monthly. Members can schedule Run Requests that are a combination of daily, weekly, or monthly times.

Software Package: A software component or system used by others.

User: A person granted permission to belong to the Software Assurance Marketplace. A SWAMP user must be a member of a project to use Assessment Tools, Platforms, and view Assessment Results.

Table 1. Compatibility of Platforms and Tools

Platforms	Tools				
	PMD	FindBugs	Cppcheck	Gcc	Clang Static Analyzer
Red Hat Enterprise Linux 6.4 32-bit	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux 6.4 64-bit	Yes	Yes	Yes	Yes	Yes
Fedora 18 64-bit	Yes	Yes	Yes	Yes	Yes
Fedora 19 64-bit	Yes	Yes	Yes	Yes	Yes
Ubuntu 12.04.2 64-bit	Yes	Yes	Yes	Yes	Yes
Debian 7.0 64-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 5.9 32-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 5.9 64-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 6.4 64-bit	Yes	Yes	Yes	Yes	Yes

*****Note: It is important to select the correct Platform when running an assessment. Selecting the incorrect Platform will generate false results.***