



USER MANUAL

Web: continuousassurance.org
App: <https://www.mir-swamp.org>
Twitter: [@swampteam](https://twitter.com/swampteam)

Technical Support

Following is contact information for the SWAMP:

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

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Preface

This document guides 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 software assurance (CSwA) testing in a safe, secure environment.

The SWAMP is funded by the Department of Homeland Security Science and Technology Directorate 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 Urbana-Champaign, 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 of the software development life cycle (SDLC).

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

The Software Assurance Marketplace (SWAMP) channels the mission of the Department of Homeland Security Science and Technology Directorate's (DHS S&T) Cybersecurity 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. Users have access to hundreds of 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. Support for software written in one of the following programming languages:
 1. C/C++
 2. Java source
 3. Java bytecode
 4. Python
 5. Ruby/Ruby on Rails
2. Assessments using one or more of the following open-source static code analysis tools:
 1. FindBugs with FindSecurityBugs

2. PMD
 3. Clang Static Analyzer
 4. cppcheck
 5. GCC
 6. checkstyle
 7. error-prone
 8. Pylint
 9. Bandit
 10. Flake8
 11. Android Lint
 12. ruby-lint
 13. RuboCop
 14. Reek
 15. Brakeman
 16. Dawn
3. Assessments using one or more of the following commercial static code analysis tools:
 1. Parasoft C/C++test
 2. Parasoft Jtest
 3. Red Lizard Goanna
 4. Assessments of Android APK packages:
 1. RevealDroid
 5. Support for software that runs on one or more of the following 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 LTS Lucid Lynx 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
 10. Google Android on Ubuntu 12.04 64-bit

Part 1: Registration

Accessing the SWAMP

The SWAMP is a web-based software application. The latest version of most modern web browsers should be sufficient to use the SWAMP, but Chrome and Firefox are recommended, as the SWAMP is regularly tested with the latest Chrome and Firefox browsers.

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

The screenshot shows the SWAMP homepage. At the top is a dark header with the word "SWAMP" and icons for user profile, message, and help. To the right is a yellow "Sign In" button. Below the header is the SWAMP logo, which includes a gear with "CONTINUOUS ASSURANCE" and a clock face, followed by the word "SWAMP" in large letters, "SOFTWARE ASSURANCE MARKETPLACE" in smaller letters, and the tagline "Do It Early. Do It Often." in gold. A summary table below the logo shows "Usage over the past year": Package uploads (1,677), Assessments (23,358), and Lines of code (271,947,634). To the right of the table is a text block: "The Software Assurance Marketplace (SWAMP) is a service that provides continuous software assurance capabilities to developers and researchers. This no-cost code analysis service is open to the public. Let the SWAMP help you to build better, safer, and more secure code today! Rather than spending time installing, licensing and configuring software assessment tools on your own machine, let the SWAMP do the work for you." At the bottom is a "Sign Up!" button with a pencil icon.

Get results in just three steps:

1) Upload your package First, upload your code. Rest assured that it will	2) Run your assessment Next, create and run an assessment by choosing a	3) View your results Last, view your results using a native viewer or Code
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Registering with the SWAMP

To create a new account with the SWAMP, click the **Sign Up!** button. You will be given a choice to register with a new account (may require some personally identifiable information) or register with an existing Google, GitHub or other third party identity provider. You can only have one third party account linked to a single SWAMP account. You may have more than one SWAMP user account. Different email address or login identifications are needed for each additional SWAMP user account that is created. You may use the same personally identifiable information in additional SWAMP user accounts that was used in your initial SWAMP user account.

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 without using GitHub.

*****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 any time without notice. If this happens, contact SWAMP at support@continuousassurance.org with 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 <https://www.mir-swamp.org>. Click the **Sign Up!** button

The screenshot shows the SWAMP homepage. At the top, there is a navigation bar with icons for user profile, message, file, and help, followed by a 'Sign In' button. Below the navigation bar is the SWAMP logo, which includes a gear with 'CONTINUOUS ASSURANCE' text and a checkmark icon. To the right of the logo is the word 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' written below it. A tagline 'Do It Early. Do It Often.' is centered below the logo. To the right of the tagline is a descriptive text block: 'The Software Assurance Marketplace (SWAMP) is a service that provides continuous software assurance capabilities to developers and researchers.' Below this is another text block: 'This no-cost code analysis service is open to the public. Let the SWAMP help you to build better, safer, and more secure code today!' Further down is a section titled 'Usage over the past year' with a table:

Package uploads	Assessments	Lines of code
1,677	23,358	271,947,634

At the bottom of the page, there is a section titled 'Get results in just three steps:' with three numbered steps: 1) Upload your package, 2) Run your assessment, and 3) View your results. Each step has a brief description and a link to a detailed page. The 'Sign Up!' button is located in the bottom right corner of the main content area, enclosed in a red box.

2. On The Sign Up Dialog, you will be presented with a number of ways to sign up. To register, click the **Sign Up** button in the lower right corner.

The screenshot shows the SWAMP website with a 'Sign Up' modal window overlaid. The modal has a title 'Sign Up' with a gear icon. It contains instructions for creating a new account by filling out a registration form or using an identity provider. Below the instructions are three sign-up options: 'Sign Up With' followed by 'Google', 'GitHub', and 'Other'. At the bottom right of the modal are two buttons: 'Cancel' and 'Sign Up' (which is highlighted with a red border).

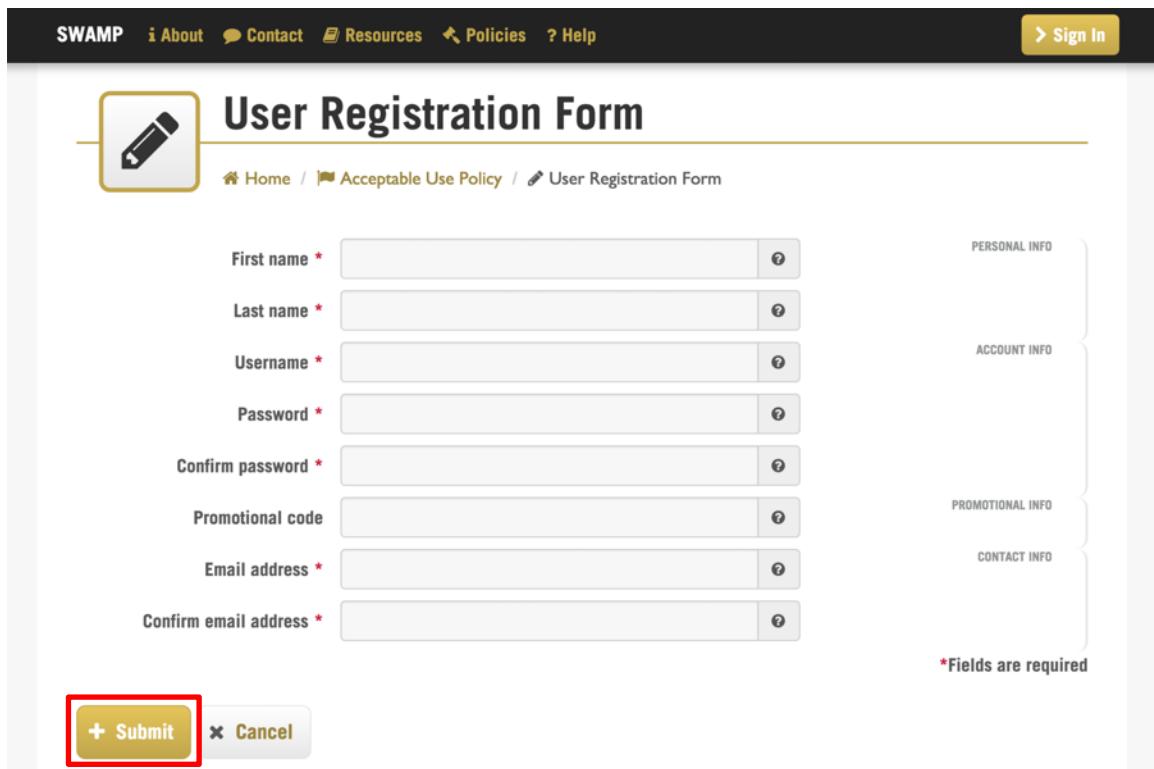
Get results in just three steps:

- 1) Upload your package**
First, upload your code.
Rest assured that it will
- 2) Run your assessment**
Next, create and run an assessment by choosing a
- 3) View your results**
Last, view your results using a native viewer or [Code](#)

3. Read and accept the **Acceptable Use Policy**. Check **I accept** to agree to the policy, and select **Next**.

The screenshot shows the 'Acceptable Use Policy' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and Sign In. Below the navigation, there is a section titled '4.0 Information Collected by the Software Assurance Marketplace from Your Use' which includes a link to the Privacy Policy. There is also a section titled '5.0 Proper Acquisition and Licensing of Software' and another titled '6.0 Termination/Access Restriction'. At the bottom of the page, there is a 'Statement of Agreement' section with a note about accepting the terms. A red box highlights the 'I accept' checkbox, and another red box highlights the 'Next' button.

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



The screenshot shows the "User Registration Form" page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and Sign In. Below the navigation bar is a large yellow header with a pencil icon and the text "User Registration Form". Underneath the header, there is a breadcrumb trail: Home / Acceptable Use Policy / User Registration Form. The main content area contains seven input fields: "First name *", "Last name *", "Username *", "Password *", "Confirm password *", "Promotional code", and "Email address *". To the right of these fields, there are three vertical curly braces labeled "PERSONAL INFO", "ACCOUNT INFO", and "PROMOTIONAL INFO", which group the first four fields together. Below the "Email address" field, another brace groups the last two fields under "CONTACT INFO". A note at the bottom states "*Fields are required". At the bottom of the form are two buttons: a yellow "Submit" button with a plus sign and a grey "Cancel" button.

Notes:

- All fields, except SWAMP promotional code, are required.
- For the **Email address** field, only email addresses from institutions are accepted. For example, Joe.Smith@morgridge.org or Joe.Smith@wisc.edu. Use the GitHub registration method to register with a freely available email account, such as Gmail, Hotmail, or Yahoo.
- For the SWAMP **Username** field, the username may be recorded in log files.

Password Requirements

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

- At least ten characters
- At least three of the following character types:
 - upper-case alphabetic character
 - lower-case alphabetic character

- number/digit
 - symbol
 - Do not use common or simple words found in the dictionary
 - Do not use ASCII characters outside the range of 32 to 126
 - The maximum password length is 200 characters
5. After submitting the registration form, you will be asked to verify your email address. Select **OK**.
 6. You will receive a verification email. Within the email, follow the link to verify your email address. Select **Verify**, then select **OK**.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [Sign In](#)

Verify Email Address

Dear Joe Smith:

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.

+ Verify

7. You have now completed the registration process and can sign in to the SWAMP. You will receive a welcome email to help you get started.

*****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 any time without notice.

Resend Verification Email

If you did not receive a SWAMP User Verification email, you may request a new one.

1. Click the **Sign In** button on the SWAMP home page, type your Username and Password, and select **OK**.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [Sign In](#)



SWAMP

The Software Assurance Marketplace (SWAMP) is a service that provides continuous software assurance capabilities to developers and researchers.

Sign In

Username Request my username
Password Reset my password

Or

Sign In With [Google](#) [GitHub](#) [Other](#)

Get results in just 3 steps:

- 1) Upload your package
- 2) Run an assessment
- 3) View results

First, upload your code. Rest assured that it will remain secure. See our [privacy policy](#).

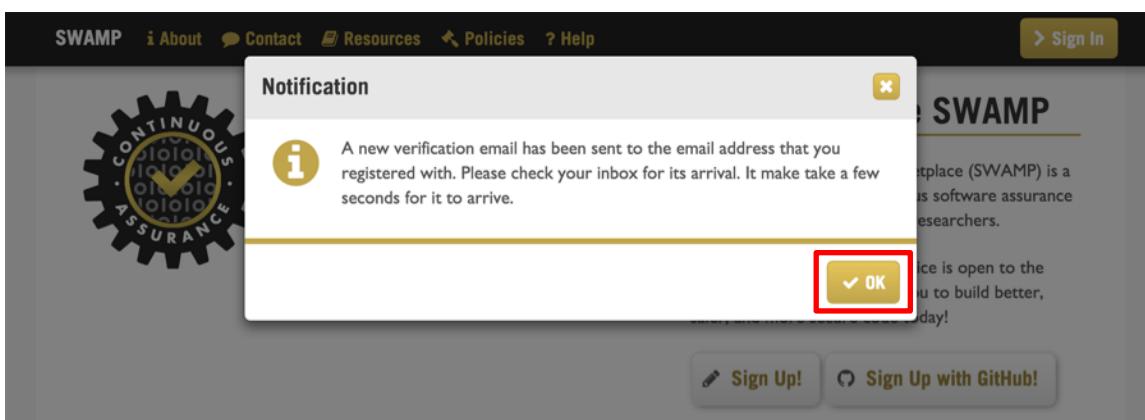
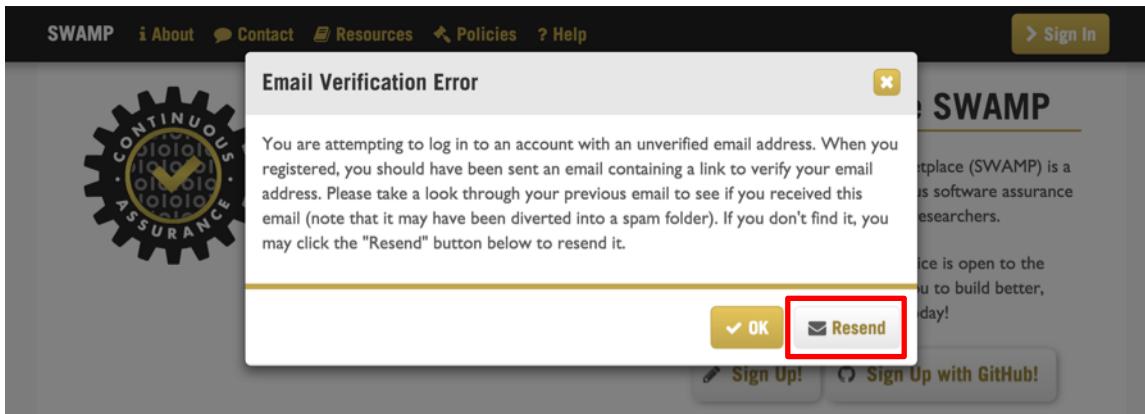
Next, create and run an assessment by choosing a package, tool, and platform.

Last, view your results using a native viewer or [Code Dx™](#) for full featured analysis.

OK Cancel



2. If you have already checked your email and spam folder, select **Resend** to send a new verification email. Select **OK**.



3. If you still do not receive a SWAMP User Verification email, select **Contact** on the home page for SWAMP support.

The screenshot shows the SWAMP homepage. At the top, there is a black navigation bar with white text and icons. The 'Contact' button is highlighted with a red border. Below the navigation bar is the SWAMP logo, which features a gear with the words 'CONTINUOUS ASSURANCE' and the word 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' below it. A tagline 'Do It Early. Do It Often.' is also present. To the right of the logo is a section titled 'Welcome to the SWAMP' with a brief description of the service. Below this are two buttons: 'Sign Up!' and 'Sign Up with GitHub!'. A large call-to-action section follows, titled 'Get results in just three steps:' with three numbered steps: 1) Upload your package, 2) Run your assessment, and 3) View your results. Each step has a corresponding image of a software interface.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [Sign In](#)

Welcome to the SWAMP

The Software Assurance Marketplace (SWAMP) is a service that provides continuous software assurance capabilities to developers and researchers.

This no-cost code analysis service is open to the public. Let the SWAMP help you to build better, safer, and more secure code today!

[Sign Up!](#) [Sign Up with GitHub!](#)

Get results in just three steps:

Rather than spending time installing, licensing and configuring software assessment tools on your own machine, let the SWAMP do the work for you.

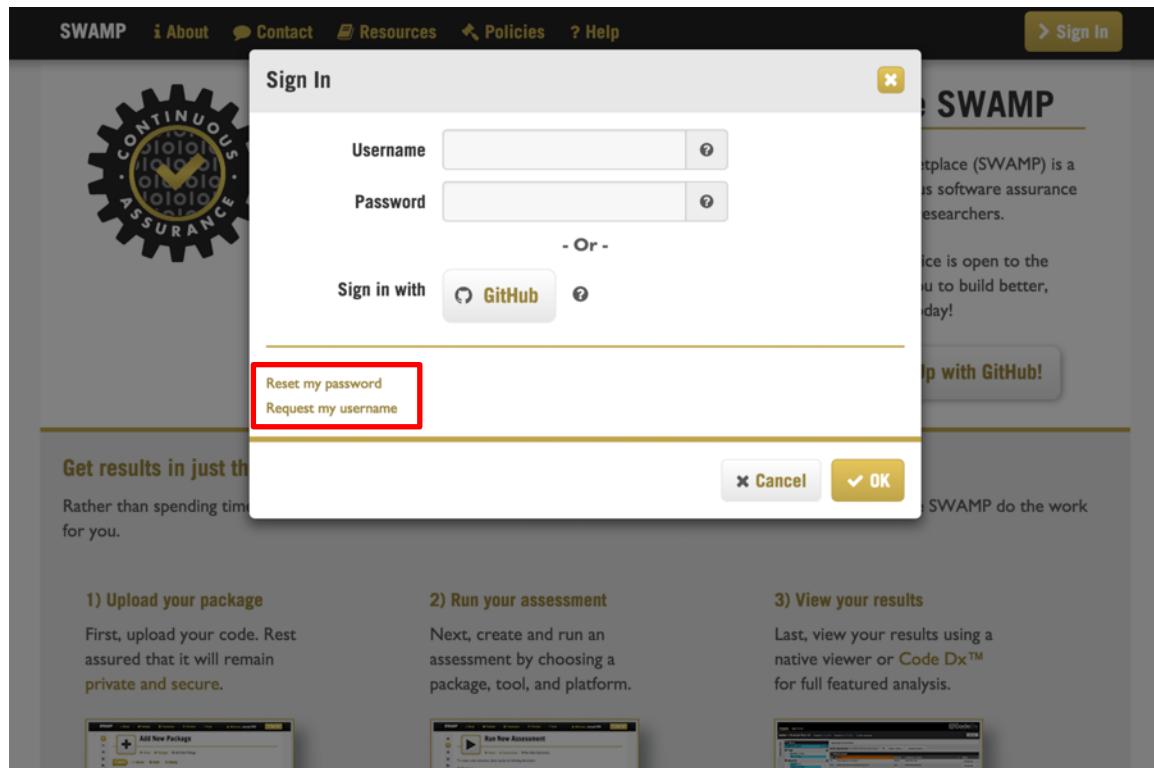
1) Upload your package
First, upload your code. Rest assured that it will remain private and secure.

2) Run your assessment
Next, create and run an assessment by choosing a package, tool, and platform.

3) View your results
Last, view your results using a native viewer or **Code Dx™** for full featured analysis.

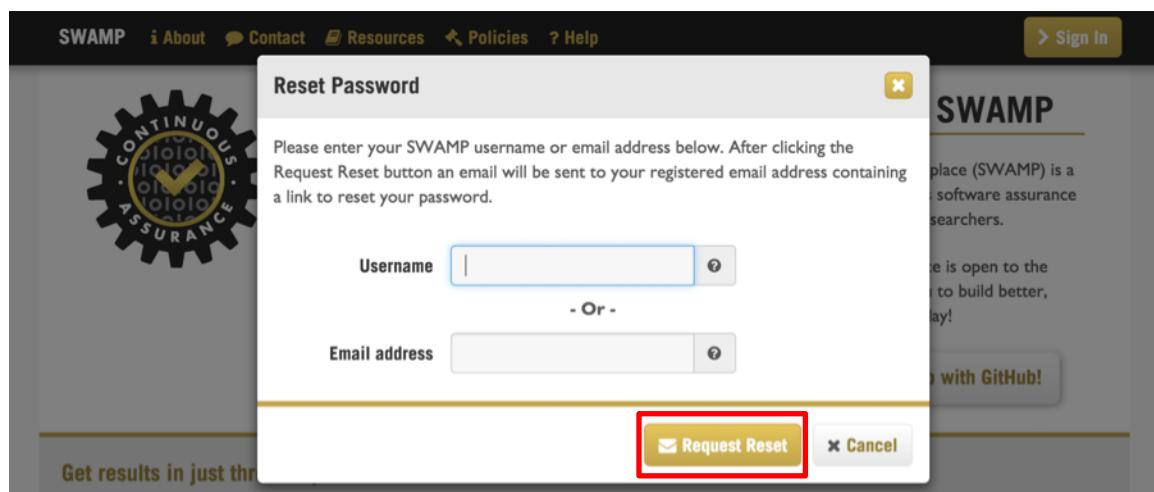
Forgotten Username or Password

If you have forgotten your login information, select **Sign In** from the SWAMP home page and choose **Request my username** or **Reset my password**, depending on the information you are requesting.



Resetting Your Password

1. Select **Reset my password**.
2. Enter your SWAMP Username or Email address. Select **Request Reset**.



3. An email will be sent to the email address associated with your SWAMP account containing a link to reset your password.
4. Once you receive this email, follow the link to reset your password.
5. Enter and confirm your new password, and select **Submit**.

Reset Password

Please enter and confirm your new password:

New password *

Confirm new password *

*Fields are required

+ Submit Cancel

Requesting Your Username

1. Select **Request my username**.
2. Enter your SWAMP Email address. Select **Request Username**.

Request Username

Please enter your email address below. By clicking the request username button, your username will be sent via email to the account you supplied provided you are a registered user. If you are not already a user, please register via the sign up link on the welcome page.

Email address

+ Request Username Cancel

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

Registering with the SWAMP Using Your GitHub Account

To simplify sign-up and be an open resource to the development community, the SWAMP will enable single sign-on with trusted platforms. Currently, SWAMP supports registration using GitHub credentials.

To register using your GitHub account, follow these steps. Once your GitHub credentials are authenticated, you must complete your SWAMP profile, including creating a unique username and password (reference the steps listed above).

1. Navigate to <https://www.mir-swamp.org>. Click on the **Sign Up!** button.

The screenshot shows the SWAMP (Software Assurance Marketplace) homepage. At the top right, there is a yellow 'Sign In' button. Below it, the SWAMP logo features a gear with the words 'CONTINUOUS ASSURANCE' and a checkmark. To the right of the logo is the word 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' underneath. Below the logo is the tagline 'Do It Early. Do It Often.' A section titled 'Usage over the past year' displays statistics: Package uploads (1,677), Assessments (23,358), and Lines of code (271,947,634). On the right side, there is descriptive text about the service and a 'Sign Up!' button which is highlighted with a red border. Below this, there is a section titled 'Get results in just three steps:' with three numbered steps: 1) Upload your package, 2) Run your assessment, and 3) View your results.

The Software Assurance Marketplace (SWAMP) is a service that provides continuous software assurance capabilities to developers and researchers.

This no-cost code analysis service is open to the public. Let the SWAMP help you to build better, safer, and more secure code today!

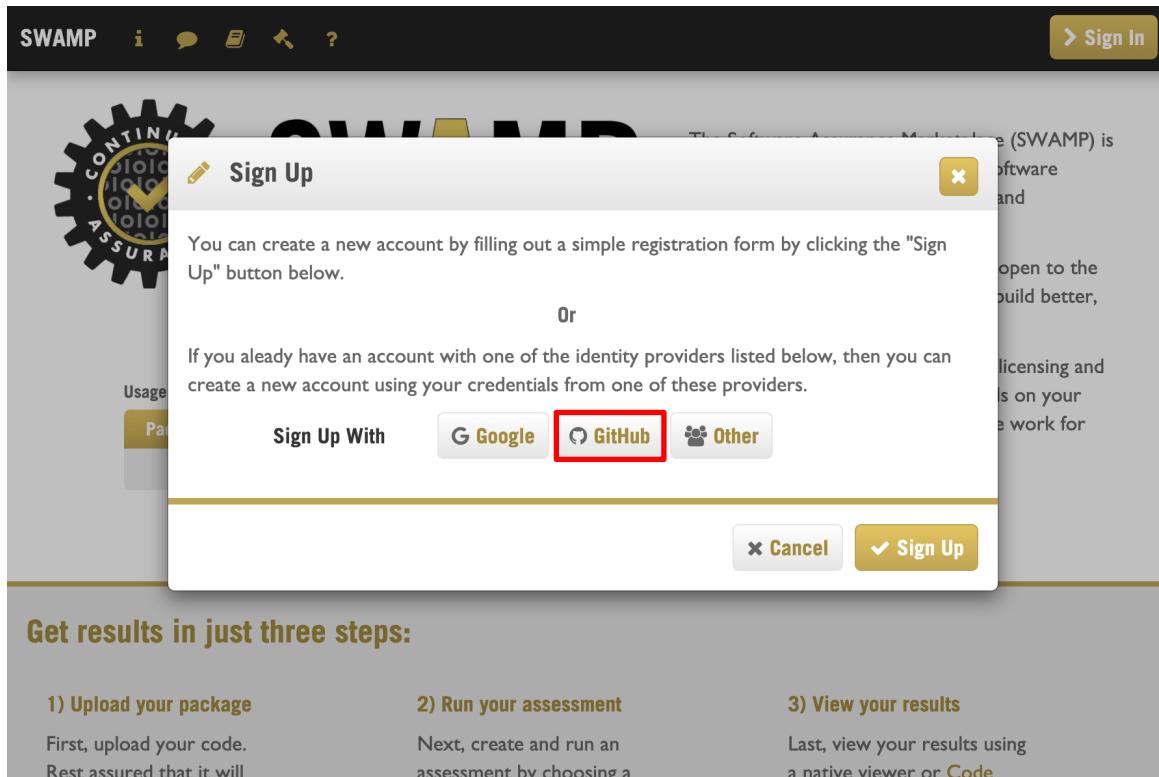
Rather than spending time installing, licensing and configuring software assessment tools on your own machine, let the SWAMP do the work for you.

Sign Up!

Get results in just three steps:

- 1) Upload your package**
First, upload your code.
Rest assured that it will
- 2) Run your assessment**
Next, create and run an assessment by choosing a
- 3) View your results**
Last, view your results using a native viewer or [Code](#)

2. Click on the GitHub button or the identity provider of your choice.



3. Next, you will be prompted to review SWAMP's specific **GitHub Use Policy**. When using GitHub in the SWAMP, you are relying on the security of your GitHub account. Therefore, take security precautions in GitHub, such as choosing a strong password and using GitHub's two-factor authentication.

Read and accept the **GitHub Use Policy**. Check **I accept** to agree to the policy.

responsible for fixing bugs, flaws, and security vulnerabilities found in your code. By agreeing to this policy, or by using the site or software, you are agreeing to the terms and conditions set forth in this policy.

📄 Linked Account Policy

When you link your SWAMP account to an external identity provider, you are asking SWAMP to rely on the security of that provider. You are responsible for protecting your linked account with a **strong password**. SWAMP also recommends enabling two factor authentication with the linked identity provider account, if possible.

Note that signing out of SWAMP does **not** sign you out of your external identity provider. For that you will either need to go to your external identity provider's home page and 'sign out' or clear your browser's cookies.

🤝 Statement of Agreement

If you accept this responsibility, click the "Sign Up with" button to create a new account using your credentials from the identity provider that you have selected.

I accept

➔ Sign Up with GitHub

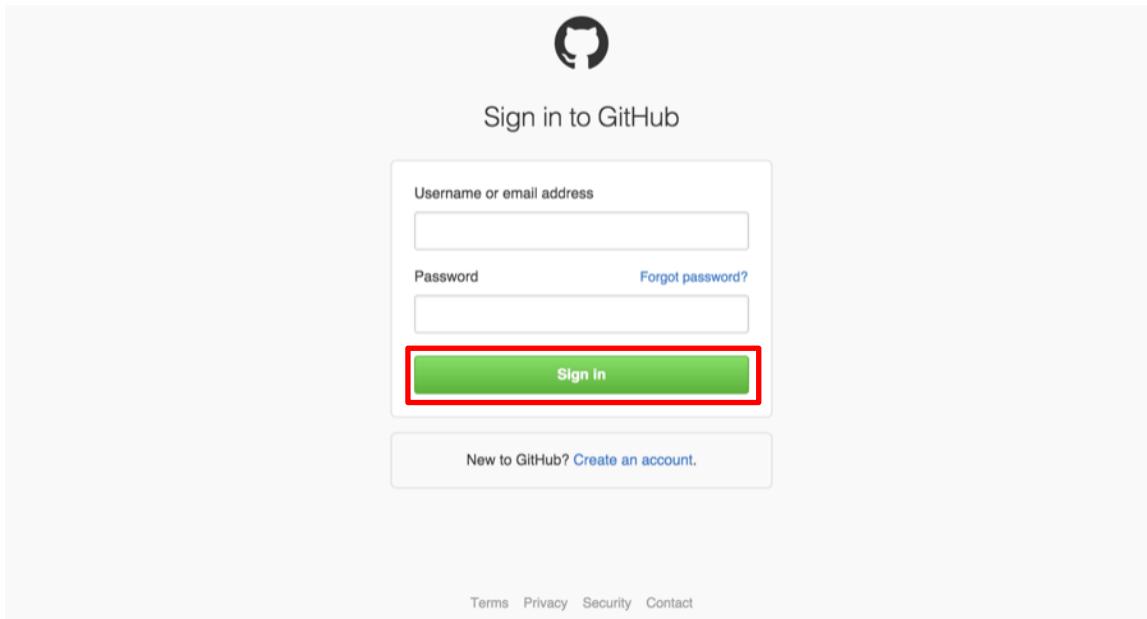
✗ Cancel

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SWAMP

4. You will be redirected to the GitHub sign in page. Sign in to GitHub with your GitHub credentials. Select **Sign In**.



The screenshot shows the GitHub sign-in interface. At the top is the GitHub logo and the text "Sign in to GitHub". Below that is a form with fields for "Username or email address" and "Password", and a "Forgot password?" link. A large green "Sign in" button is at the bottom of the form, which is highlighted with a red rectangle. Below the form is a link "New to GitHub? Create an account." At the very bottom of the page are links for "Terms", "Privacy", "Security", and "Contact".

5. Review the GitHub Authorize application page to ensure that @mirswamp is requesting access to your GitHub account. Select **Authorize application**.

The screenshot shows the GitHub 'Authorize application' page. At the top, there's a header with the GitHub logo, a search bar, and links for 'Pull requests', 'Issues', and 'Gist'. Below the header, the title 'Authorize application' is displayed, followed by the text 'SWAMP by @mirswamp would like permission to access your account'. To the right of the text are two small icons: one for GitHub and one for SWAMP. The main area is divided into two sections: 'Review permissions' on the left and 'SWAMP' on the right. The 'Review permissions' section shows a single item: 'Personal user data' (Email addresses (read-only)). Below this is a green button labeled 'Authorize application', which is highlighted with a red box. The 'SWAMP' section contains the text 'Public Production Instance of the SWAMP', a link to 'Visit application's website', and a link to 'Learn more about OAuth'. At the bottom of the page, there are copyright notices for GitHub (© 2015 GitHub, Inc.) and links for Status, API, Training, Shop, Blog, About, and Pricing.

6. You have now completed the registration process. You will be signed in to the SWAMP and redirected to your SWAMP account's Home screen.

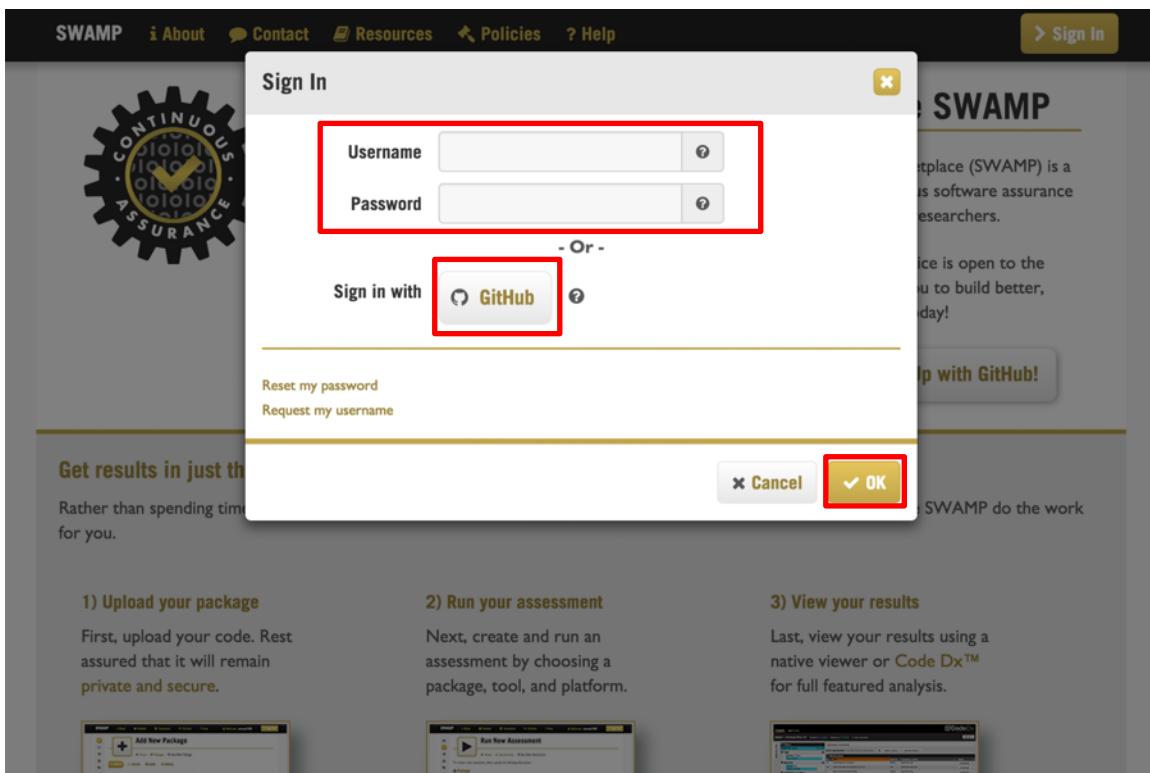
Signing in to the SWAMP

On the SWAMP home page, there are currently two options for sign in. You may use your SWAMP username and password or you can use your GitHub credentials.

To sign in to SWAMP using your SWAMP Username and Password, enter your username and password in the designated fields, and select **OK**. You will be logged in to the SWAMP and land on your Home screen.

If you have difficulties signing in with your SWAMP credentials, refer to the *Reset my password or Request my username* options on pages 14-15 of this User Manual.

To sign in to SWAMP with GitHub, select **GitHub**. SWAMP will authenticate your GitHub account.



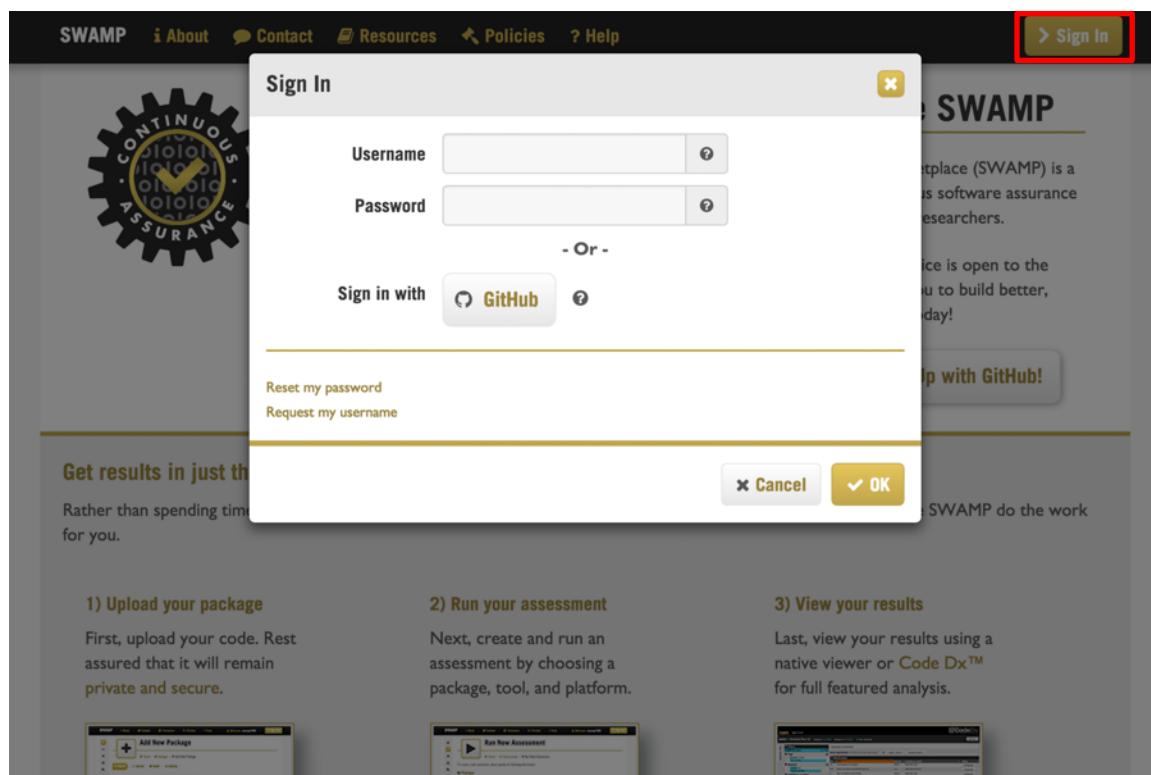
Once your account is verified, your Home screen will be visible. You may now use the SWAMP.

If you have difficulty signing in with GitHub, visit your GitHub account to make sure that your password and username are correct and that SWAMP is an Authorized application in the Applications section of your Personal Settings.

Unlinking your GitHub account from your SWAMP account

If needed, you can unlink your GitHub account from your SWAMP account. To do so, you must unlink the GitHub application in your SWAMP account AND also revoke SWAMP access in your GitHub account by following the steps below.

1. Sign in to your SWAMP account. You can sign in using your SWAMP or your GitHub credentials.



2. Select **My Account** by clicking your username on the upper right side of the page.

The screenshot shows the SWAMP Software Assurance Marketplace homepage. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account section. The user account section shows the username "swamp1999" and a "Sign Out" button, both of which are highlighted with a red box. Below the navigation bar, a message indicates the user last signed in on 01-07 11:09 (2016). The main header features a large gear icon with the words "CONTINUOUS" and "ASSURANCE" around it, followed by the word "SWAMP" in large letters, with "SOFTWARE ASSURANCE MARKETPLACE" below it. A tagline "Do It Early. Do It Often." is centered below the main title. The page is divided into several sections with icons and descriptions:

- Packages**: Upload your code and manage your software packages. (Icon: gift)
- Tools**: Manage your software assessment tools. (Icon: wrench)
- Assessments**: Perform assessments on packages using code analysis tools. (Icon: checkmark)
- Results**: View the status and results of completed assessments. (Icon: bug, count: 155)
- Runs**: View assessments scheduled to run at regular intervals. (Icon: bus, count: 2)
- Projects**: Create projects to share results with other users. (Icon: folder)
- Events**: View events associated with your projects & account. (Icon: megaphone, count: 7)

3. Select the **Linked Accounts** tab.

The screenshot shows the 'My Account' page with the 'Linked Accounts' tab highlighted by a red box. The page displays personal information such as first name (joe), last name (Smith), affiliation (Morgridge Institute for Research), email address (joe.smith@morgridgeinstitute.org), and address (123 Main Street, Madison, WI, 53711, United States). A vertical bracket on the right side groups 'PERSONAL INFO', 'ACCOUNT INFO', 'ADDRESS', and 'PHONE' sections.

Personal Info	Account Info	Address	Phone
First name: joe	Affiliation: Morgridge Institute for Research	Street address 1: 123 Main Street	
Last name: Smith	Email address: joe.smith@morgridgeinstitute.org	City: Madison	
	Username: swamp1999	State: WI	
	Street address 2:	Postal code: 53711	
	City: Madison	Country: United States	
	State: WI	Country code: I	

4. Select the X on the right to unlink your GitHub account from your SWAMP account.

The screenshot shows the 'My Account' page with the 'Linked Accounts' tab selected. It lists a single provider, GitHub, which is described as 'The GitHub git repository service.' and was created on '2015-09-15 21:36:56'. A red box highlights the delete 'X' icon next to the GitHub entry.

Provider	Description	Create Date	Action
GitHub	The GitHub git repository service.	2015-09-15 21:36:56	X

5. Now, sign in to your GitHub account.
6. Select Settings from the upper right side of the page.
7. Select **Applications** in the left side bar.

8. On the Authorized applications tab, select **Revoke** next to SWAMP to remove the link to your GitHub account.

The screenshot shows the GitHub 'Personal settings' sidebar on the left with the 'Applications' section selected. The main content area is titled 'Authorized applications' and displays one application: 'SWAMP'. A red box highlights the 'Revoke' button next to the application entry.

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Your GitHub account has now been successfully unlinked from your SWAMP account. Your **Linked Accounts** tab should now show no linked accounts.

The screenshot shows the SWAMP 'My Account' page. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a user profile (swamp1999). The main content area is titled 'My Account' and shows a sidebar with various icons. Below the sidebar, there are three tabs: 'My Profile' (selected), 'Permissions', and 'Linked Accounts'. A red box highlights the 'Linked Accounts' tab. The page message states: 'No accounts have been linked with this SWAMP account.'

Updating Your SWAMP Account

If your personal information changes, you can update your profile at any time.

1. Sign in to the SWAMP.
2. From your **Home** screen, click your username on the upper right side of the page to open **My Account**.

The screenshot shows the SWAMP Software Assurance Marketplace homepage. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, a user icon labeled "swamp1999", and a "Sign Out" button. Below the navigation bar, a message says "You last signed in on 01-07 11:09 (2016)". The main header features a large gear icon with the words "CONTINUOUS" and "ASSURANCE" around it, followed by the word "SWAMP" in large letters, with "SOFTWARE ASSURANCE MARKETPLACE" below it. A tagline "Do It Early. Do It Often." is centered. Below the header, there are six cards arranged in a grid:

Packages	Tools	Assessments
Upload your code and manage your software packages. 4 items	Manage your software assessment tools. 1 item	Perform assessments on packages using code analysis tools. 4 items
Results	Runs	Projects
View the status and results of completed assessments. 155 items	View assessments scheduled to run at regular intervals. 2 items	Create projects to share results with other users. 1 item
Events		
View events associated with your projects & account. 7 items		

3. On the **My Profile** tab, select **Edit Profile**.

The screenshot shows the 'My Account' page of a web application. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out section for 'swamp1999'. Below the navigation is a sidebar with various icons. The main content area has a title 'My Account' and a breadcrumb trail: Home / My Account. There are three tabs: 'My Profile' (which is selected), 'Permissions', and 'Linked Accounts'. The page displays a list of personal information grouped into categories:

Category	Information
PERSONAL INFO	First name: joe
	Last name: Smith
	Affiliation: Morgridge Institute for Research
	Email address: joe.smith@morgridgeinstitute.org
ACCOUNT INFO	Username: swamp1999
	Street address 1: 123 Main Street
	Street address 2:
	City: Madison
ADDRESS	State: WI
	Postal code: 53711
	Country: United States
	Country code: I
PHONE	Area code: (608)
	Phone number: 123-4567
	Creation date: 02-06 10:31 (2014)
	Last modified date: 01-11 09:41 (2016)
DATES	Previous sign in date: 01-07 11:36 (2016)
	Time since current sign in: 49 seconds
	Time since previous sign in: 3 days 22 hours 5 minutes 31 seconds
	TIMES

At the bottom, there are four buttons: 'Edit Profile' (highlighted with a red box), 'Change Password', 'Reset Password', and 'Delete Account'.

4. **Edit My Profile** screen, make the desired changes, and select **Save**.

The screenshot shows the 'Edit My Profile' page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in button for 'swamp1999'. Below the navigation is a sidebar with various icons. The main area has a title 'Edit My Profile' with a pencil icon. A breadcrumb trail shows Home / My Account / Edit My Profile. The form contains the following fields:

PERSONAL INFO	
First name *	joe
Last name *	Smith
Affiliation	Morgridge Institute for Research
Email address *	joe.smith@morgridgeinstitute.org
Confirm email address *	joe.smith@morgridgeinstitute.org
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
Phone number	123-4567

A note at the bottom right says '*Fields are required'. At the bottom are 'Save' and 'Cancel' buttons, with 'Save' being highlighted with a red box.

Changing Your Password

To create a new password or if you feel that your current password might have become compromised, you have the option to change your password at any time.

1. To change your password, click your username on the upper right side of the page to open **My Account**.

2. Select **Change Password**.

The screenshot shows the 'My Account' page of the SWAMP application. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in status for 'swamp1999'. Below the navigation is a sidebar with various icons. The main content area has a title 'My Account' and a breadcrumb trail 'Home / My Account'. There are three tabs: 'My Profile' (selected), 'Permissions', and 'Linked Accounts'. The profile information is organized into several sections:

PERSONAL INFO	
First name	Joe
Last name	Smith
Affiliation	Morgridge Institute for Research
Email address	joe.smith@morgridgeinstitute.org
Username	swamp1999
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)
Phone number	123-4567
Creation date	02-06 10:31 (2014)
Last modified date	01-11 09:41 (2016)
Previous sign in date	01-07 11:36 (2016)
Time since current sign in	49 seconds
Time since previous sign in	3 days 22 hours 5 minutes 31 seconds

Below the profile information are four buttons: 'Edit Profile', 'Change Password' (which is highlighted with a red box), 'Reset Password', and 'Delete Account'.

3. Refer to the Password Requirements on page 10 of this User Manual for more information about creating a strong password.

- Type your current password and then your new password, and select **Submit**.

The screenshot shows the SWAMP user interface with a 'Change My Password' dialog box overlaid. The dialog box has three input fields: 'Current password *', 'New password *', and 'Confirm new password *'. Below the fields is a note: '*Fields are required'. At the bottom are two buttons: 'Submit' (highlighted with a red box) and 'Cancel'. In the background, there's a sidebar with icons and a 'My Profile' section. The main area displays account details under 'PERSONAL INFO', 'ACCOUNT INFO', 'ADDRESS', and 'PHONE' sections.

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. Refer to pages 8-11 of this User Manual to create a new user account.

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

- To delete your SWAMP account, click your username on the upper right side of the page to open **My Account**.

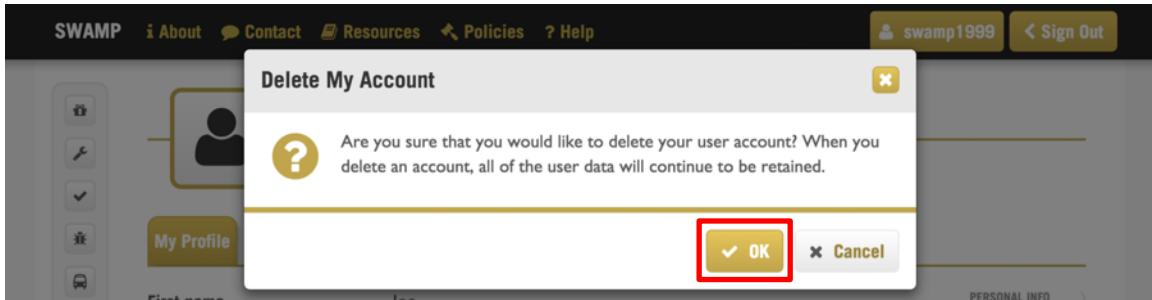
2. On the **My Profile** tab, select **Delete Account**.

The screenshot shows the 'My Account' page with the 'My Profile' tab selected. The user's profile information is displayed in a grid format. The columns are labeled: PERSONAL INFO, ACCOUNT INFO, ADDRESS, PHONE, DATES, and TIMES. The 'Delete Account' button at the bottom is highlighted with a red box.

PERSONAL INFO	ACCOUNT INFO	ADDRESS	PHONE	DATES	TIMES
First name: Joe	Affiliation: Morgridge Institute for Research	Street address 1: 123 Main Street	City: Madison	Creation date: 02-06 10:31 (2014)	
Last name: Smith	Email address: joe.smith@morgridgeinstitute.org	Street address 2:	State: WI	Last modified date: 01-11 09:41 (2016)	
Affiliation: Morgridge Institute for Research	Username: swamp1999	City: Madison	Postal code: 53711	Previous sign in date: 01-07 11:36 (2016)	
Email address: joe.smith@morgridgeinstitute.org	Street address 2:	State: WI	Country: United States	Time since current sign in: 49 seconds	
Username: swamp1999	City: Madison	Postal code: 53711	Country code: I	Time since previous sign in: 3 days 22 hours 5 minutes 31 seconds	
Street address 1: 123 Main Street	Street address 2:	Country: United States	Area code: (608)		
City: Madison	City: Madison	Area code: (608)	Phone number: 123-4567		
State: WI	State: WI	Phone number: 123-4567			
Postal code: 53711	Country: United States				
Country: United States	Country code: I				
Country code: I	Area code: (608)				
Area code: (608)	Phone number: 123-4567				
Phone number: 123-4567					

Edit Profile **Change Password** **Reset Password** **Delete Account**

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



Home Screen and Navigation Bar

After you sign in to the SWAMP, you arrive on your Home screen. From the Home screen, you can access all of the different areas of the SWAMP. You can return to your Home screen from anywhere in the SWAMP by selecting **SWAMP** on the top left.



From all other areas of the SWAMP, the Navigation Bar allows you to quickly access the different areas of the SWAMP without needing to return to your Home screen.

In the example below, selecting the Results icon on the Navigation Bar will move you from the Packages page to the Assessment Results page.

Packages

Home / Packages

Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.

Filters

Package Description Type Versions

Package	Description	Type	Versions
My Test Package	My first C/C++ test package.	C/C++	1.0

Show numbering

Add New Package

The size and location of the Navigation Bar may be changed based on your preference and will be remembered by your browser.

The left/right or up arrow buttons move the Navigation Bar to the left/right or top of the screen.

Packages

Home / Packages

Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.

Filters

Package Description Type Versions

Package	Description	Type	Versions
My Test Package	My first C/C++ test package.	C/C++	1.0

Show numbering

Add New Package

The screenshot shows the SWAMP software interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account for swamp1999. Below the navigation bar is a secondary menu with links for Packages, Assessments, Results, Runs, Projects, Events, and a search icon. The main content area is titled "Packages" and features a large icon of a gift box. Below the title, there is a breadcrumb trail: Home / Packages. A descriptive text block states: "Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions." Below this text is a filter bar with options for project, type, date, and items, followed by a "Filters" button and a clear button. On the right side of the filter bar is a "Add New Package" button. The main list area displays a single package entry:

Package	Description	Type	Versions
My Test Package	My first C/C++ test package.	C/C++	1.0

Show numbering

The magnifying glass button minimizes/maximizes the size of the Navigation Bar.

The screenshot shows the SWAMP software interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account for swamp1999. A magnifying glass icon is located at the top right of the navigation bar. Below the navigation bar is a sidebar on the left containing icons for Packages, Assessments, Results, Runs, Projects, and Events. The main content area is titled "Packages". It displays a brief description of what packages are, followed by a search/filter bar with dropdowns for project, type, date, and items, and a "Filters" button. A large orange button labeled "+ Add New Package" is visible. Below this is a table with one row, showing a package named "My Test Package" with the description "My first C/C++ test package.", type "C/C++", and version "1.0". There is also a "Show numbering" checkbox and a delete icon for the package entry. The overall theme is light gray with orange highlights for buttons and the sidebar.

Requesting Permissions and Ownership

In order to become a project owner or to use commercial tools available in the SWAMP, you will need to request access.

1. Click your username on the upper right side of the page to open **My Account**.
2. Navigate to the **Permissions** tab.
3. You will see a list of possible permissions. If you would like additional permissions, select **Request** next to the desired access.

The screenshot shows the 'My Account' interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in button labeled 'swamp1999'. Below the navigation bar is a sidebar with various icons. The main area is titled 'My Account' and shows a breadcrumb trail: Home / My Account. There are three tabs: 'My Profile' (disabled), 'Permissions' (selected and highlighted with a red box), and 'Linked Accounts'. The 'Permissions' tab displays a table with four rows:

Permission	Description	Expiration Date	Status
Parasoft C/C++test User	Permission to access and use the C/C++test static analysis tool for C/C++ from Parasoft.		Request
Parasoft Jtest User	Permission to access and use the Jtest static analysis tool for Java from Parasoft.		Request
Project Ownership	Permission to create new Projects.		Request (highlighted with a red box)

4. For Commercial Tools, you will be asked for information about yourself, your organization (if applicable), and the project/package you wish to assess with the commercial tool. You will also be asked to select and **Accept** your user type. The purpose/nature of your project/package and your user type will determine the appropriate End User License Agreement (EULA) for you to review and **Accept**. Use the optional comment field to provide additional information about yourself or your project/package. Select **OK**.

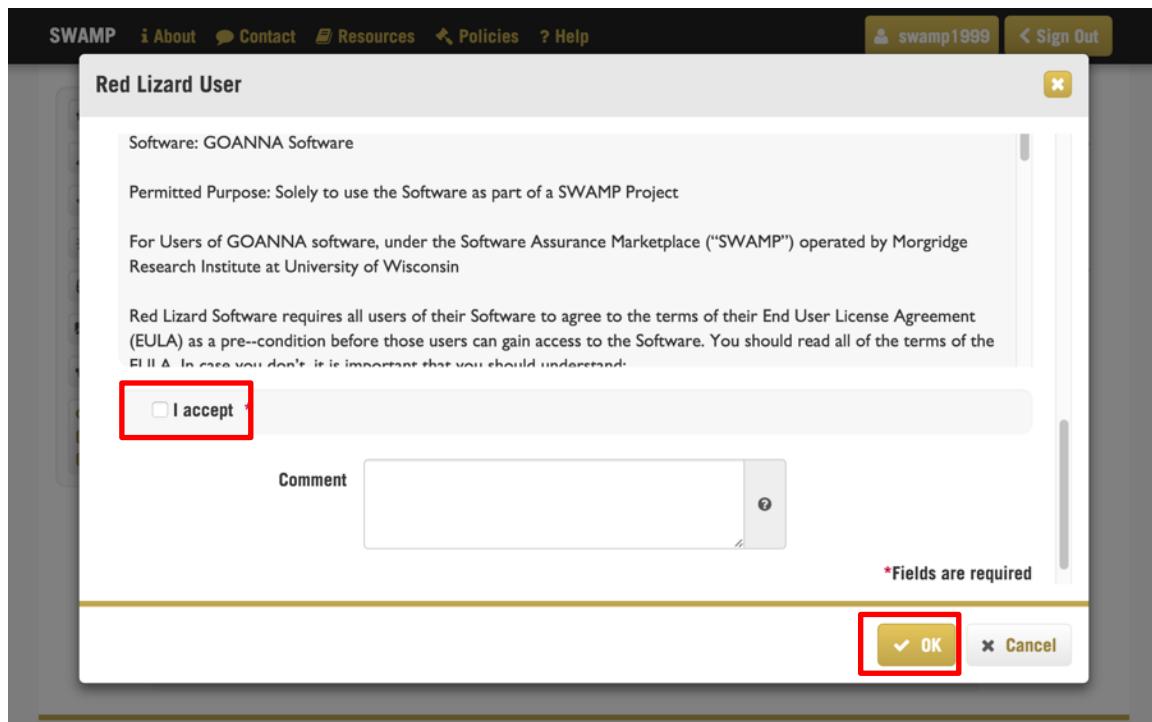
The screenshot shows a modal dialog box titled "Red Lizard User". At the top right is a close button (X). The top bar includes links for "About", "Contact", "Resources", "Policies", and "Help", along with a user icon labeled "swamp1999" and a "Sign Out" link.

The main form area has two sections:

- User Information**: Contains four text input fields with required markers (*): "Name", "Email", "Organization", and "Project URL". Each field has a question mark icon in its top right corner.
- User Type ***: Contains four radio buttons for selecting a user type: "Open Source", "Educational", "Government", and "Commercial".

At the bottom right of the form are two buttons: a yellow "OK" button with a checkmark icon and a white "Cancel" button with a cross icon.

*****Note:** Fill in all required fields on the form. This may require scrolling.



5. A SWAMP administrator and/or the commercial tool vendor will review your request(s) and respond as soon as possible. You will be notified via email of any permission status changes.

*****Note:** All permissions expire after one year and will need to be requested again, if desired.

*****Note:** Inappropriate use of the SWAMP or SWAMP permissions that may or may not violate the **Acceptable Use Policy**, **Project Ownership Policy**, or **Commercial Tool User Policies/EULAs** will result in permissions being revoked and/or deactivation of your SWAMP user account. SWAMP reserves the right to revoke permissions or terminate your user account at any time without notice. If this happens, contact SWAMP at support@continuousassurance.org with any questions you may have, to request permissions, to request account reactivation, or to determine next steps to be able to access the SWAMP again.

Using Commercial Tools

There are some differences in the ways that commercial tools work in the SWAMP.

Once permission has been granted for you to use Parasoft C/C++test or Parasoft Jtest, you will be able to select and use these tools just like the open-source tools available in the SWAMP.

Once permission has been granted for you to use Red Lizard Goanna, you will receive an email invitation to join a Project with exclusive access to the Goanna tool. Follow the

link in the email, and **Accept** the invitation. Upload and/or share your C/C++ package with this Goanna-specific Project and run an assessment.

*****Note:** *Goanna is the only tool available to Packages in your Goanna-specific Project. No other commercial or open-source tools are available to this Project. A Package must be shared with your Goanna-specific Project in order to use the Goanna tool.*

Part 2: Projects

My Project

My Project is a project that is automatically created for each user. My Project allows each individual user to upload Packages, run Assessments, and view the Results of assessment runs, but other members cannot be invited to this project.

Requesting Project Ownership

To ensure cybersecurity, users must request Project Ownership status to create new projects. 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 Assessments, schedule Runs, and view assessment Results. You only need to request Project Ownership status once.

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Projects**.

The screenshot shows the SWAMP Software Assurance Marketplace home page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in button for 'swamp1999'. Below the navigation bar, a message indicates the user last signed in on 01-07 11:09 (2016). The main header features a large gear icon with the text 'CONTINUOUS ASSURANCE' and the word 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' underneath. A tagline 'Do It Early. Do It Often.' is displayed. Below the header, there are several project management options arranged in a grid:

- Packages**: Upload your code and manage your software packages. (Icon: gift)
- Tools**: Manage your software assessment tools. (Icon: wrench)
- Assessments**: Perform assessments on packages using code analysis tools. (Icon: checkmark)
- Results**: View the status and results of completed assessments. (Icon: bug)
- Runs**: View assessments scheduled to run at regular intervals. (Icon: bus)
- Projects**: Create projects to share results with other users. (Icon: folder)
- Events**: View events associated with your projects & account. (Icon: megaphone)

The 'Projects' option is highlighted with a red border around its icon and description.

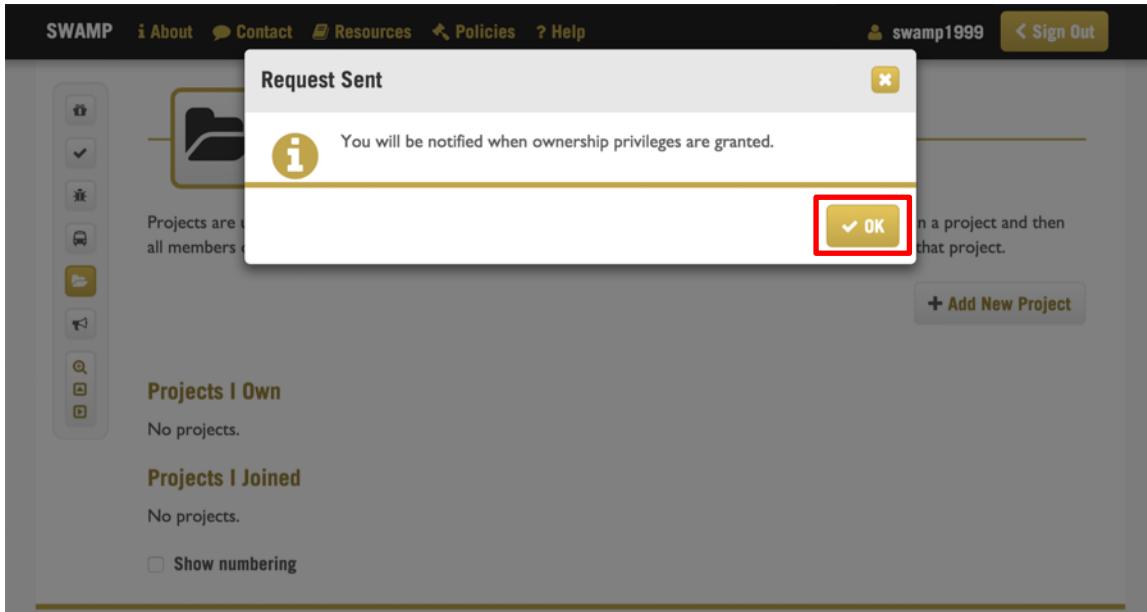
2. Select Add New Project to request Project Ownership.

The screenshot shows the SWAMP interface with the 'Projects' section selected. On the left is a sidebar with various icons. The main area has a title 'Projects' with a folder icon. Below it is a breadcrumb trail: Home / Projects. A text block explains that projects allow sharing assessment results and inviting others. A red box highlights the 'Add New Project' button, which has a plus sign and the text '+ Add New Project'. Below this are sections for 'Projects I Own' (No projects) and 'Projects I Joined' (No projects), each with a 'Show numbering' checkbox.

3. Accept the Project Ownership Use Policy.

The screenshot shows a modal dialog box titled 'Project Ownership Use Policy'. It contains text about the policy and responsibilities of a project owner. A red box highlights the 'Accept' button at the bottom right of the dialog. The 'Cancel' button is also visible.

4. You will be notified via email when you have been approved for Project Ownership.



Alternatively, you may request Project Ownership through your SWAMP user account.

1. Click your username on the upper right side of the page to open **My Account**.
2. Navigate to the **Permissions** tab.

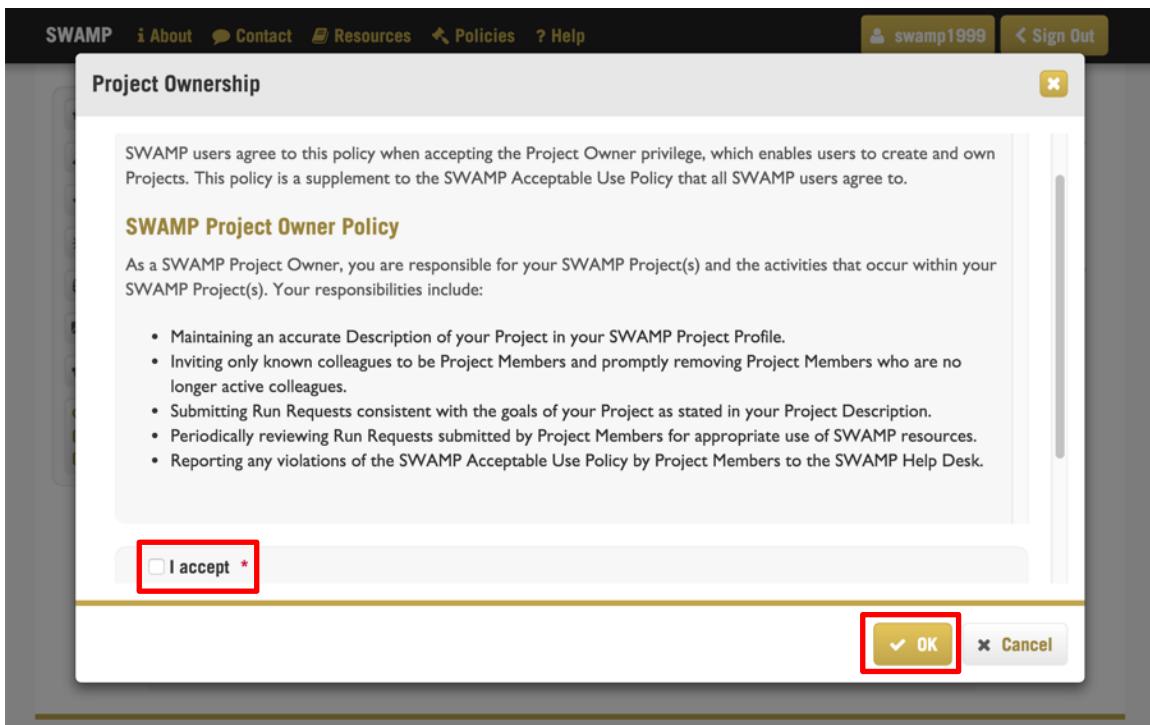
A screenshot of the 'My Account' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out button. The user's name 'swamp1999' is highlighted with a red box. Below the navigation bar, there is a sidebar with various icons. The main content area features a 'My Account' header with a user icon and a 'My Profile' link. Below this, there are three tabs: 'Permissions' (which is highlighted with a red box), 'My Profile', and 'Linked Accounts'. The 'Permissions' tab displays a table with five rows of data. Each row has a 'Permission' column, a 'Description' column, an 'Expiration Date' column, and a 'Status' column. To the right of each row is a 'Request' button, also highlighted with a red box. The table rows contain the following information:

Permission	Description	Expiration Date	Status
Parasoft C/C++test User	Permission to access and use the C/C++test static analysis tool for C/C++ from Parasoft.		Request
Parasoft Jtest User	Permission to access and use the Jtest static analysis tool for Java from Parasoft.		Request
Project Ownership	Permission to create new Projects.		Request
Red Lizard Goanna User	Permission to access and use the Goanna static analysis tool for C/C++ from Red Lizard.		Request

3. You will see a list of possible permissions. If you would like additional permissions, select **Request** next to the desired access.

4. Review and **Accept** the Policy. Select **OK**.

*****Note:** Fill in all required fields on the form. This may require scrolling.



5. A SWAMP administrator will review your request and respond as soon as possible. You will be notified via email when you have been approved for Project Ownership.

Creating a Project

Once you are an approved Project Owner, you may create Projects and invite others to join your Project.

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Projects**.



The screenshot shows the SWAMP Software Assurance Marketplace home page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in link for 'swamp1999'. Below the navigation is the SWAMP logo, which includes a gear with binary code and the text 'CONTINUOUS ASSURANCE'. The main heading 'SWAMP' is in large, bold letters, with 'SOFTWARE ASSURANCE MARKETPLACE' below it. A tagline 'Do It Early. Do It Often.' is centered. Below the tagline are several cards representing different features:

- Packages**: Upload your code and manage your software packages. (Icon: gift)
- Tools**: Manage your software assessment tools. (Icon: wrench)
- Assessments**: Perform assessments on packages using code analysis tools. (Icon: checkmark)
- Results**: View the status and results of completed assessments. (Icon: bug)
- Runs**: View assessments scheduled to run at regular intervals. (Icon: bus)
- Projects**: Create projects to share results with other users. (Icon: folder)
- Events**: View events associated with your projects & account. (Icon: megaphone)

The 'Projects' card is highlighted with a red border.

2. Select **Add New Project** to create a new Project.

The screenshot shows the SWAMP interface with the 'Projects' section selected. On the left is a sidebar with various icons. The main area has a title 'Projects' with a folder icon. Below it are two sections: 'Projects I Own' and 'Projects I Joined', both stating 'No projects.' There is also a checkbox for 'Show numbering'. A prominent button labeled '+ Add New Project' is highlighted with a red box. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a sign-out option.

3. On the **Add New Project Form**, complete the following fields:

- | | |
|---------------------|--|
| Full name: | The full name is the long version of your Project's name. |
| Short name: | The short name or alias is the shortened version of your Project's name. |
| Description: | Provide a description of your Project. |

4. Select **Save Project**.

The screenshot shows the 'Add New Project' page. On the left is a vertical toolbar with icons for file operations like copy, paste, cut, and search. The main area has a title 'Add New Project' with a large plus sign icon. Below it is a breadcrumb trail: Home / Projects / + Add New Project. A note says 'Please enter the details of your new project below.' There are three input fields: 'Full name *' with 'My Test Project', 'Short name *' with 'Test', and 'Description *' with 'This is a test project.' A note at the bottom right says '*Fields are required'. At the bottom are 'Save Project' and 'Cancel' buttons, with 'Save Project' being highlighted by a red box.

5. Your new **Project** will appear under **Projects I Own**, accessible from **Projects** on the **Home** screen.

The screenshot shows the 'Projects' screen. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a sign-out option. The main content area has a title 'Projects' with a folder icon. Below it is a breadcrumb trail: Home / Projects. A note explains that projects allow sharing results with other users. A 'Add New Project' button is visible. The 'Projects I Own' section is highlighted with a red box. It contains a table with columns: Project, Description, and Date Added. One row is shown: 'My Test Project', 'This is a test project.', and '02-06 (2014) 12:19'. A close button is next to the date. Below this is a 'Projects I Joined' section which says 'No projects.' At the bottom is a checkbox for 'Show numbering'.

Inviting Members to Your Project

Project Owners may invite others to join 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 Assessments, schedule Runs, and view assessment Results. The Project Owner is automatically a Project Member of any Projects they create.

1. The Projects page lists your Projects under **Projects I Own**.
2. Select a Project you own by clicking the name in the Project column.
3. Scroll down to view the **Members** section, and select **Invite New Members**.

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

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and Sign Out. Below the navigation bar, there is a sidebar on the left with various icons. The main content area displays project details for "My Test Project". The project details include:

- Full name: My Test Project
- Short name: Test
- Owner: Joe Smith
- Number of members: 1
- Use public tools: yes
- Creation date: 02-06 12:19 (2014)
- Description: This is a test project.

Below the project details, there is a section titled "Members" which lists one member: Joe Smith (joe.smith@morgridgeinstitute.org). To the right of the member list is a button labeled "Invite New Members" which is highlighted with a red box. At the bottom of the screen, there are several action buttons: Run New Assessment, Edit Project, Delete Project, Save Changes, and Cancel.

4. Select **Add Invitation**.

The screenshot shows the 'Test Project Invitations' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation bar, the title 'Test Project Invitations' is displayed next to a mail icon. A breadcrumb trail shows Home / Projects / Project Test / Project Invitations. The main content area displays a table of invited users:

Name	Email	Date	Status
Joe	joe.smith@morgridgeinstitute.org	02-06 15:05 (2014)	Accepted

No new project invitations.

At the bottom, there are three buttons: '+ Add Invitation' (highlighted with a red box), 'Send', and 'Cancel'.

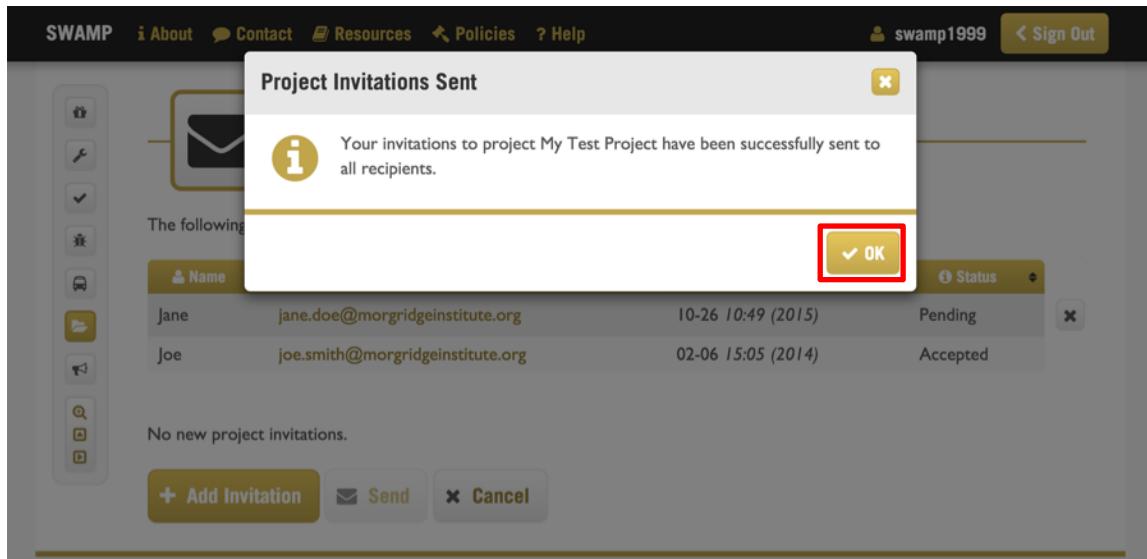
5. Type the name and email of the person you would like to invite to your Project.

The screenshot shows the same 'Test Project Invitations' page as before, but with new input fields. In the 'Name' field, 'jane' is typed, and in the 'Email' field, 'jane.doe@morgridgeinstitute.org' is entered. Both fields are highlighted with a red box. The rest of the page, including the table of invited users and the button bar at the bottom, remains the same.

6. Continue to use **Add Invitation** to invite any others to join your Project. Individuals do not have to be registered users of the SWAMP to be invited but must register for the SWAMP if they are going to be a part of the project.

7. Select **Send** when you are done. You can add new members at any time.

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



9. Individuals who are invited to your project will receive a SWAMP Project Invitation email. They must follow the link in the email and select **Accept** in order to join the project. The project will appear under **Projects I Joined** on their Projects page.

Changing Project Member Status

A **Project Owner** may change the status of a **Project Member** by navigating to the Members section at the bottom of the Projects page for a given Project they own. A Project Owner may change a Project Member's status to Admin (Administrator) or remove the Project Member from the project entirely. **Admin** rights give other Project Members the additional capability to approve and invite new Project Members.

1. From the Projects page, select a Project under **Projects I Own**.
2. Scroll down to view the **Members** section.

- Check the box under the **Admin** column to give **Admin** rights to the **Project Member(s)**. Select **Save Changes**.

The screenshot shows the 'Members' section of a SWAMP project. It lists two members: 'Jane' and 'Joe Smith'. For 'Jane', the 'Admin' checkbox is checked (highlighted by a red box). For 'Joe Smith', it is unchecked. Below the table is a checkbox for 'Show numbering'. At the bottom are buttons for 'Run New Assessment', 'Edit Project', 'Delete Project', 'Save Changes' (highlighted by a red box), and 'Cancel'.

User	Email	Affiliation	Join Date	Admin
Jane	jane.doe@morgridgeinstitute.org		(2015) 10-27 12:02	<input checked="" type="checkbox"/>
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	(2014) 02-06 12:19	<input type="checkbox"/>

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

Removing Admin (Administrator) Rights and Project Members

As the needs of your Project change, you can add/remove Admin rights from individual Project Members. Follow the steps below to remove Admin rights from the Project Member.

- Uncheck the box under the **Admin** column.

2. Select **Save Changes**.

The screenshot shows the SWAMP project management interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out option for user 'swamp1999'. Below the navigation bar, there is a summary section with the following details:

Number of members	2
Use public tools	yes
Creation date	02-06 12:19 (2014)
Description	This is a test project.

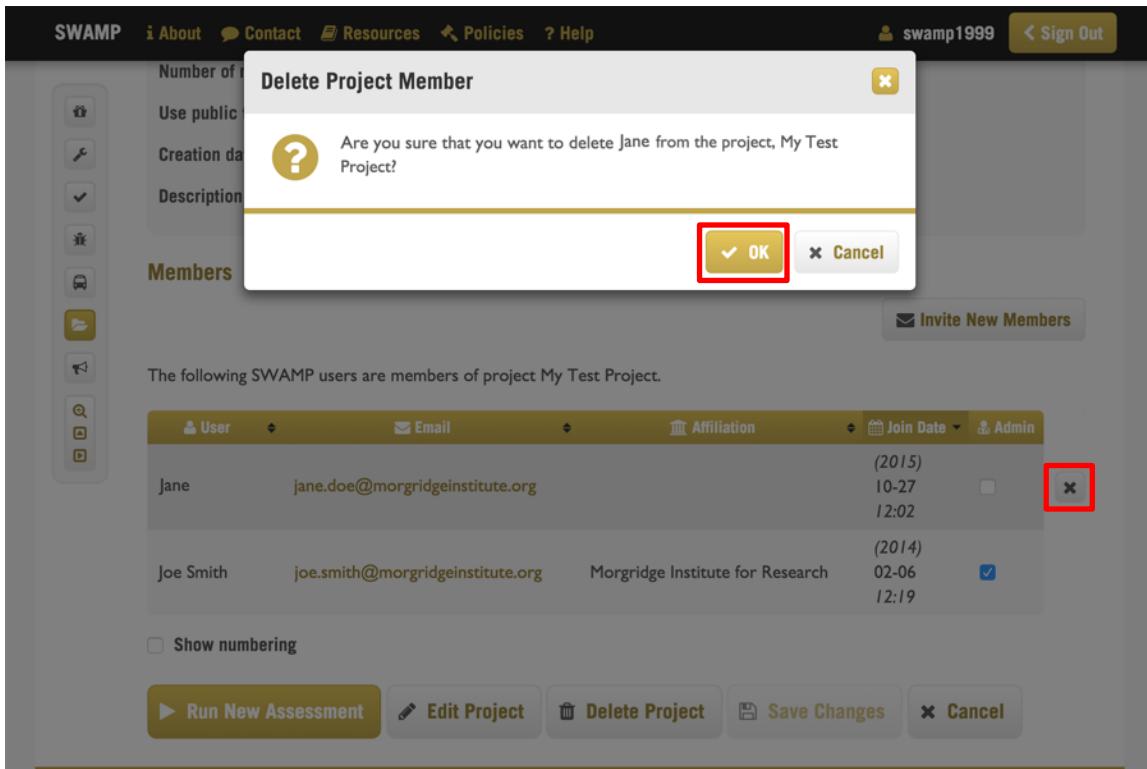
Below this is a section titled 'Members' with a 'Invite New Members' button. It lists two members:

User	Email	Affiliation	Join Date	Admin
Jane	jane.doe@morgridgeinstitute.org		(2014) 02-06 12:19	<input type="checkbox"/>
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	(2015) 10-27 12:02	<input checked="" type="checkbox"/>

At the bottom of the page, there are several buttons: 'Run New Assessment', 'Edit Project', 'Delete Project', 'Save Changes' (which is highlighted with a red box), and 'Cancel'.

3. An X will appear next to the 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. Then select OK.



Editing Project Details

You may rename your project or update its description.

1. From the **Projects I Own** section of the Projects page, select the name of a Project in the Project column.

The screenshot shows the SWAMP interface with the 'Projects' page selected. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a user sign-in area. On the left, there's a vertical sidebar with various icons. The main content area has a title 'Projects' with a folder icon. Below it, a breadcrumb trail shows 'Home / Projects'. A descriptive text block explains that projects allow sharing assessment results and inviting others. A large 'Add New Project' button is visible. The 'Projects I Own' section contains a table with columns for Project, Description, and Date Added. One row is shown, titled 'My Test Project' with the description 'This is a test project.' and the date '02-06 (2014) 12:19'. A red box highlights the project name 'My Test Project'.

Project	Description	Date Added
My Test Project	This is a test project.	02-06 (2014) 12:19

2. Select **Edit Project** to change the project details.

The screenshot shows the 'Edit Project' page for 'My Test Project'. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation is a form with the following fields:

Full name	My Test Project
Short name	Test
Owner	Joe Smith
Number of members	1
Use public tools	yes
Creation date	02-06 12:19 (2014)
Description	This is a test project.

Below the form is a section titled 'Members' with a button labeled 'Invite New Members'. A table lists one member: Joe Smith (joe.smith@morgridgeinstitute.org) from Morgridge Institute for Research, joined on 02-06 12:19 (2014). There are buttons for 'Run New Assessment', 'Edit Project' (which is highlighted with a red box), 'Delete Project', 'Save Changes', and 'Cancel'.

4. Select **Save Project**.

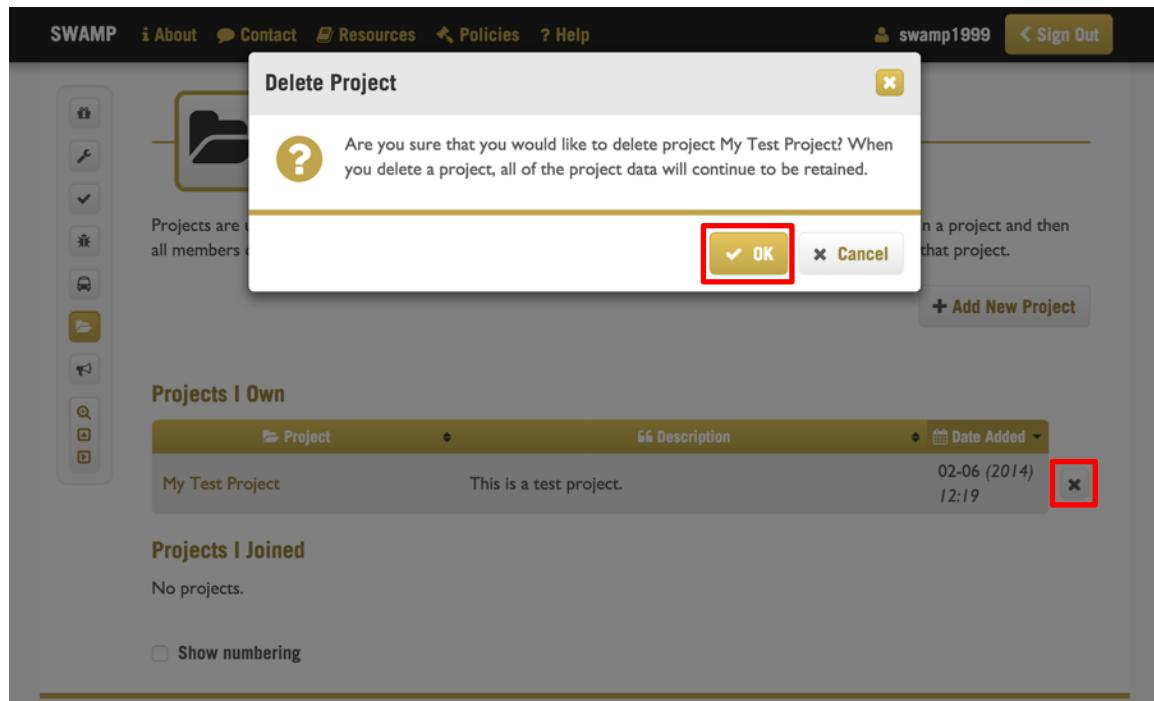
The screenshot shows the 'Edit Project Test' dialog box. At the top, it says 'Edit Project Test'. Below that is a breadcrumb trail: Home / Projects / Project Test / Edit Project. The form contains the following fields:

Full name *	My Test Project
Short name *	Test
Description *	This is a test project.

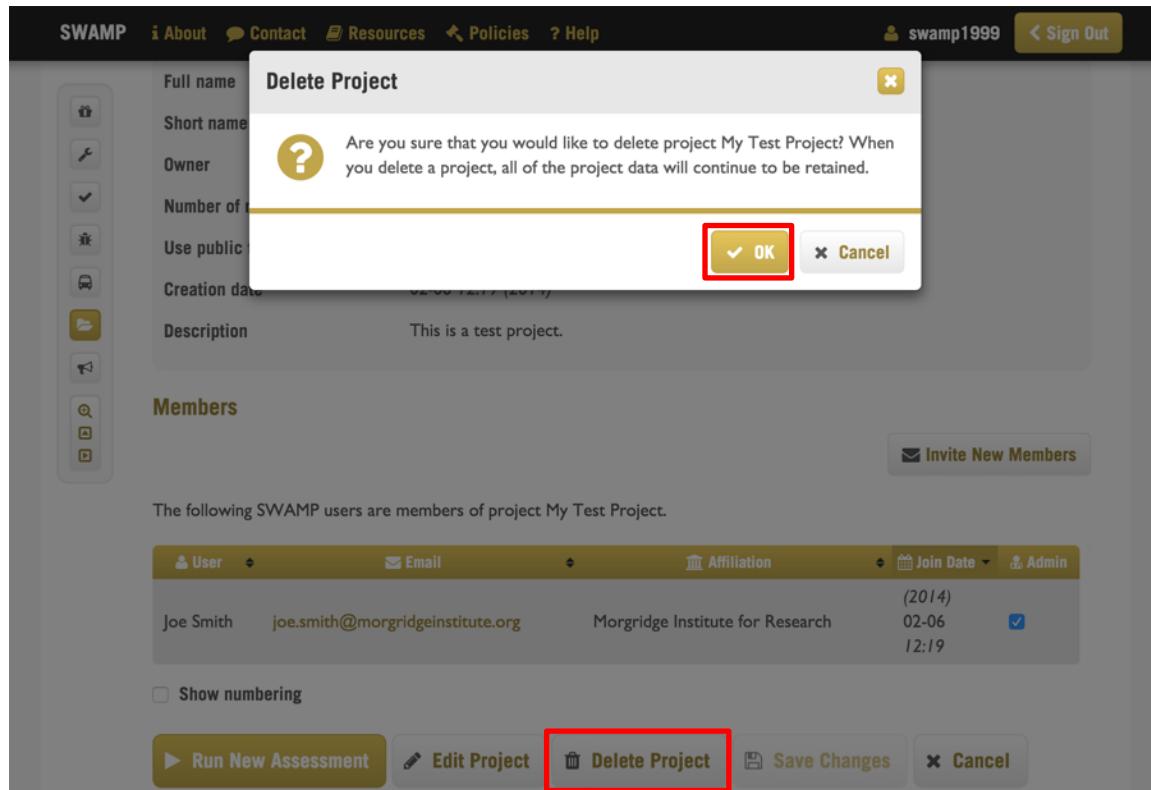
A note at the bottom states: *Fields are required. At the bottom of the dialog are buttons for 'Save Project' (highlighted with a red box) and 'Cancel'.

Deleting a Project

You may delete projects that you have created. From the **Projects I Own** section of the Projects page, select the **X** next to the Date Added column. Then select **OK**.



Alternatively, you can delete a Project from within that Project. Select **Delete Project**, and then select OK.



Navigating from Within a Project

From within a Project, you can easily view Assessments, Results, Runs, Schedules, and Events associated with that Project.

1. From the **Projects I Own** section of the Projects page, select the name of a Project in the Project column.
2. Buttons located at the top of a specific Project page take you to the Assessments, Results, Runs, Schedules, or Events pages.

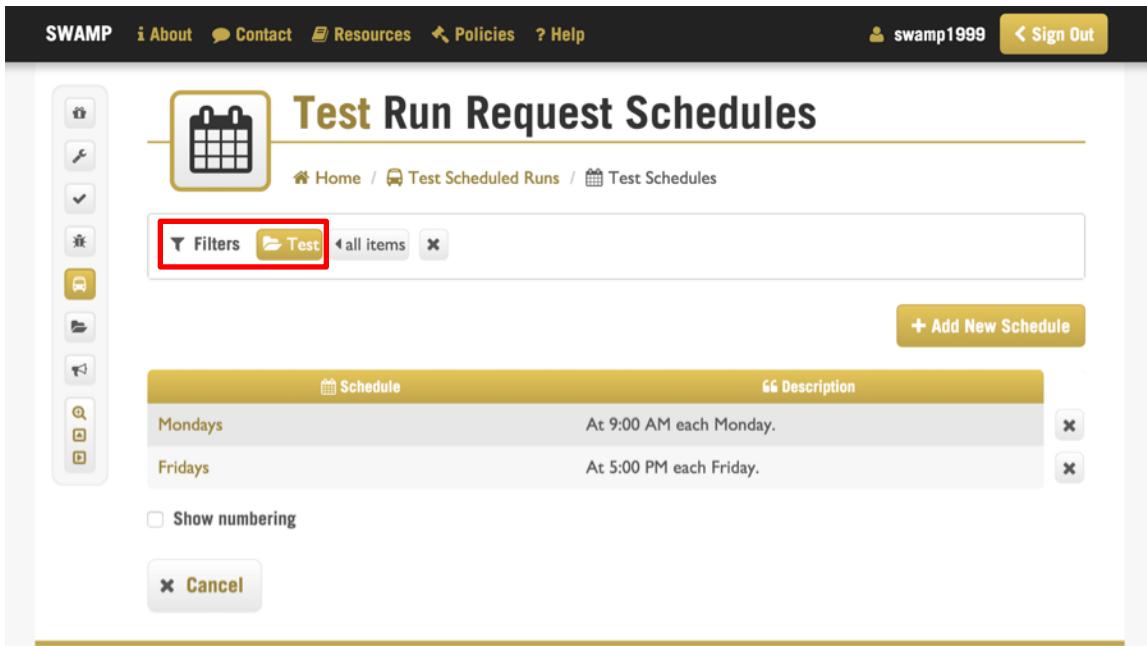
The screenshot shows the SWAMP interface for a project named "Project Test". At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation bar, the project title "Project Test" is displayed with a file icon. A breadcrumb trail shows Home / Projects / Project Test. On the left, there's a sidebar with various icons for project management. The main content area has a red box highlighting a row of buttons: Assessments (6), Results (98), Runs (1), Schedules (2), and Events (3). Below these buttons, project details are listed in a table:

Full name	My Test Project
Short name	Test
Owner	Joe Smith
Number of members	2
Use public tools	yes
Creation date	02-06 12:19 (2014)
Description	This is a test project.

Below the details, there's a section titled "Members" with a button to "Invite New Members". It states: "The following SWAMP users are members of project My Test Project.".

3. On those pages, the Project filter is set to the name of your Project, so only those items relevant to that specific Project are shown.

For example, selecting the Schedules button takes you to the Schedules page. On the Schedules page, the Project filter is set so that only those Schedules associated with the “Test” Project are shown.



The screenshot shows a web application interface for managing schedules. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. A 'Sign Out' button is also present. Below the navigation bar, the title 'Test Run Request Schedules' is displayed next to a calendar icon. The page shows a breadcrumb trail: Home / Test Scheduled Runs / Test Schedules. A sidebar on the left contains various icons for different project management tasks. In the main content area, there is a search bar with 'Filters' and 'Test' selected, indicated by a red box around the 'Test' button. Below the search bar, a table lists two scheduled runs: 'Mondays' (At 9:00 AM each Monday) and 'Fridays' (At 5:00 PM each Friday). A 'Show numbering' checkbox is available. At the bottom, there is a 'Cancel' button. A large yellow button labeled '+ Add New Schedule' is located on the right side of the table header.

4. To return to your Project page, you will need to use the back button within your browser to preserve any filters set on that page. Alternatively, you can use the Navigation Bar to return to the Projects page and select the name of your Project.

Running Assessments from a Project

You can run an Assessment directly from a Project. Before doing so, you may wish to upload a Package and share it with that Project. (Refer to Part 3 of this User Manual for how to create a Package.) Otherwise, you may select one of the curated packages available in the SWAMP.

1. From the **Projects I Own** section of the Projects page, select the name of a Project in the Project column.
2. Select **Run New Assessment** to create an Assessment. You will then be prompted to select a Package, Tool, and Platform.

The screenshot shows the SWAMP interface for managing projects. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation is a sidebar with various icons for project management. The main content area displays a project named "My Test Project" with the following details:

Full name	My Test Project
Short name	Test
Owner	Joe Smith
Number of members	1
Use public tools	yes
Creation date	02-06 12:19 (2014)
Description	This is a test project.

Below this, a section titled "Members" lists the project members:

User	Email	Affiliation	Join Date	Admin
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	(2014) 02-06 12:19	<input checked="" type="checkbox"/>

At the bottom of the page are several buttons: "Run New Assessment" (highlighted with a red box), "Edit Project", "Delete Project", "Save Changes", and "Cancel".

3. Refer to Part 4 of this User Manual for how to run an Assessment.

Part 3: Software Packages

Adding Your Software Package to the SWAMP

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

Uploading a Software Package

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Packages**.

The screenshot shows the SWAMP Home screen. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user profile for 'swamp1999'. Below the navigation bar is the SWAMP logo, which includes a gear with the words 'CONTINUOUS' and 'ASSURANCE' around it, and a large 'SWAMP' text with 'SOFTWARE ASSURANCE MARKETPLACE' underneath. A tagline 'Do It Early. Do It Often.' is displayed below the logo. The main content area is divided into several sections: 'Packages' (highlighted with a red border), 'Tools', 'Assessments', 'Results', 'Runs', 'Projects', and 'Events'. Each section has an icon and a brief description. The 'Packages' section is described as 'Upload your code and manage your software packages.' The 'Tools' section is for managing software assessment tools. The 'Assessments' section involves performing assessments on packages using code analysis tools. The 'Results' section shows the status and results of completed assessments. The 'Runs' section displays assessments scheduled to run at regular intervals. The 'Projects' section allows users to create projects to share results with other users. The 'Events' section lists events associated with the user's projects and account. There are also small circular notification counts (e.g., 0, 1, 7) in the bottom right corner of each section icon.

2. Select Add New Package.

The screenshot shows the 'Packages' section of the SWAMP interface. On the left is a sidebar with various icons. The main area has a title 'Packages' with a gift icon. Below it is a breadcrumb trail: Home / Packages. A text block explains what packages are. There are filter options and a search bar. At the bottom right is a prominent yellow button labeled '+ Add New Package' which is highlighted with a red box.

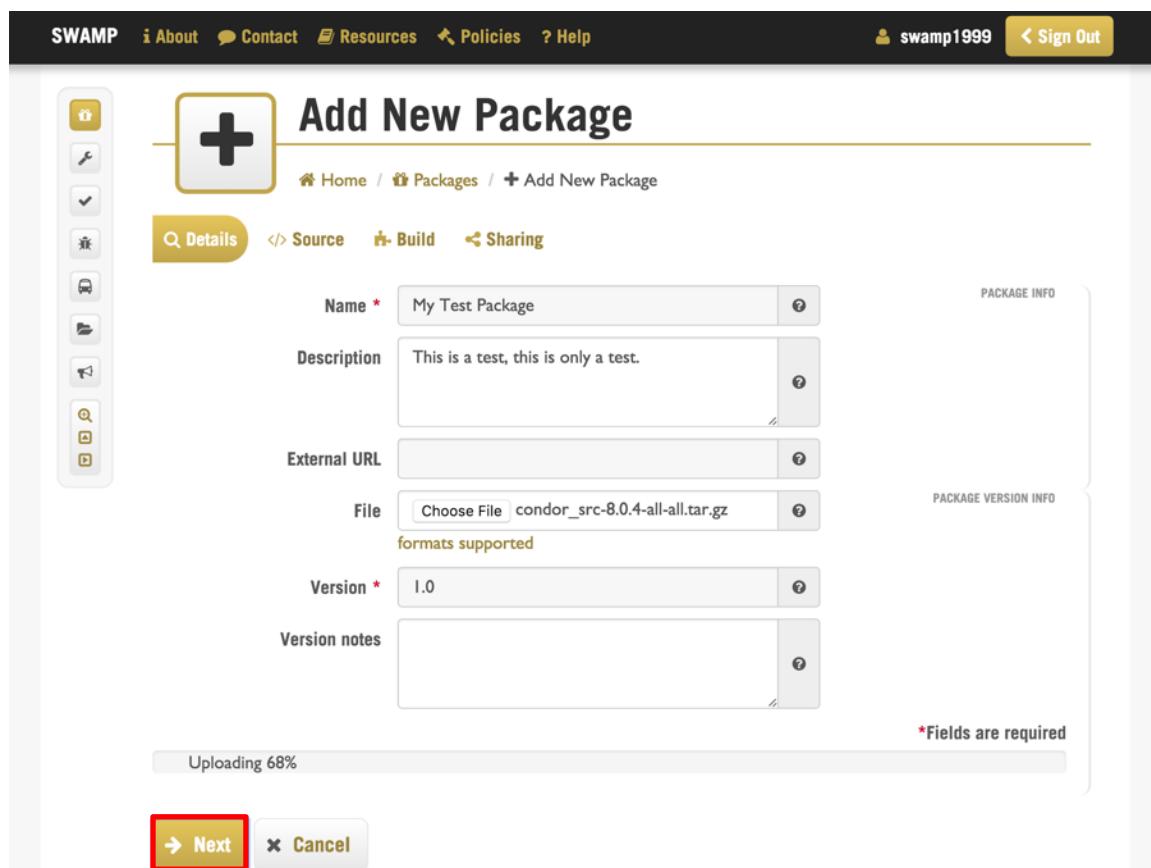
3. Complete the fields on the Details tab.

*****Note:** When choosing a file to upload, hover your mouse over **formats supported** to view the supported file types.

The screenshot shows the 'Add New Package' form. The 'Details' tab is selected and highlighted with a red box. The form includes fields for Name, Description, External URL, File (with a 'Choose File' button and a tooltip 'formats supported' highlighted with a red box), Version, and Version notes. To the right, there are sections for 'PACKAGE INFO' and 'PACKAGE VERSION INFO'. At the bottom, there are 'Next' and 'Cancel' buttons, with 'Next' highlighted with a red box.

Name:	Name of the Software Package
Description:	A description of the package (Optional)
External URL:	Publicly clonable GitHub repository URL from which to clone or pull files for the package. The “HTTPS clone URL” on the GitHub repository page (ends with .git). The default branch will be used. (Optional)
File:	Software Package to upload
Version:	Revision of the uploaded software
Version Notes:	A description of the package version (Optional)

4. Select **Next**, and your package will begin to upload. A progress bar will appear across the bottom of the screen.



The screenshot shows the SWAMP interface for adding a new package. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). The main page title is "Add New Package". The left sidebar has icons for Home, Packages, Details, Source, Build, Sharing, and a search function. The "Details" tab is selected. The form fields are as follows:

- Name ***: My Test Package
- Description**: This is a test, this is only a test.
- External URL**: (empty)
- File**: Choose File condor_src-8.0.4-all-all.tar.gz (formats supported)
- Version ***: 1.0
- Version notes**: (empty)

A note at the bottom right says "*Fields are required". A progress bar at the bottom indicates "Uploading 68%". At the bottom are "Next" and "Cancel" buttons, with "Next" being highlighted with a red box.

- After your file has successfully uploaded, you will be on the **Source** tab.

The SWAMP will automatically review your file to determine an appropriate **Package path** and **Language**. It may take a few moments for values to populate into these fields.

Verify that the correct values have been chosen, and make changes, if needed, by choosing **Select**.

Once this information is correct, select **Next**.

*****Note:** Fields on the **Source** tab vary based upon the Language chosen. Refer to the next section for language-specific views.

The screenshot shows the 'Add New Package' form. On the left is a sidebar with icons for upload, edit, checkmark, asterisk, search, and file operations. The main area has a title 'Add New Package' with a large plus sign icon. Below it is a breadcrumb trail: Home / Packages / + Add New Package. There are four tabs: 'Details' (selected), 'Source' (highlighted with a red box), 'Build', and 'Sharing'. Under 'Source', there is a 'Package path' field containing 'condor-8.0.4/' with a 'Select' button. A 'Language' dropdown is set to 'C/C++' with a 'Show File Types' button. A note at the bottom right says '*Fields are required'. At the bottom are buttons for 'Next' (highlighted with a red box), 'Prev', and 'Cancel'.

Package path: A required field and the name of the top level directory that is produced when the archive file is unarchived.

*****Note:** Use the **Select** button to make changes to the **Package path**. In the **Select Package Path** window, only directories/folders appear by default. To view all files, check **Show all files**.

Language: This field indicates whether or not to invoke the build system to build the software from source code. Languages are automatically chosen based on a quick scan of the file to be uploaded (e.g. C/C++). Additional options may appear based on the Language selected.

*****Note:** The **Show File Types** button displays the number of files with each file extension within the specified **Package path**.

6. You will now be on the **Build** tab.

The SWAMP will automatically review your file to determine an appropriate **Build system**. It may take a few moments for a value to populate into this field.

Verify that the correct value has been chosen, and make changes, if needed.

*****Note:** *Build system* values vary based upon the Language chosen. Refer to the next section for Language-specific views.

The screenshot shows the SWAMP interface for adding a new package. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). The main title is 'Add New Package'. Below it, a sidebar contains icons for Home, Packages, Add New Package, Details, Source, and Build. The 'Build' icon is highlighted with a red box. A note below the title states: 'Notice: This package appears to use the 'Configure + Make' build system. You can set the build system if this is not correct.' The 'Build system' dropdown is set to 'Configure+Make'. Below it are tabs for Advanced settings, Configure, and Build. A C/C++ BUILD INFO section is visible. At the bottom, there are sections for Package dependencies and Build script, each with a note: '*Fields are required'.

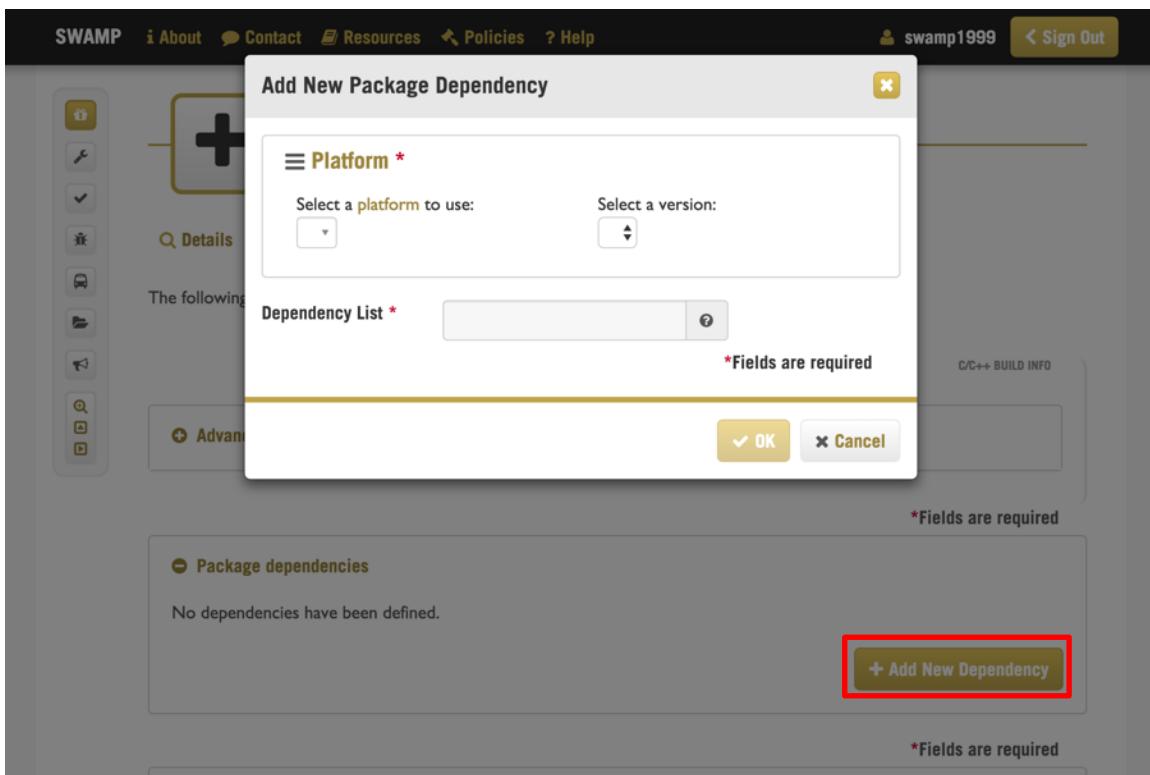
Build system:

Name of the system to use to build the software.

- For C/C++, the following may be chosen: No build, Cmake+Make, Configure+Make, Make, Other.
- For Java source, the following may be chosen: No build, Ant, Ant+Ivy, Maven, Gradle.
- For Java source Android, the following may be chosen: Ant, Maven, Gradle.
- For Java bytecode Android APK, the following may be chosen: Android APK.
- For Python, the following may be chosen: No build, Build with Setuptools, Build (Other).
- For Ruby, the following may be chosen: Bundler, Bundler + Rake, Bundler + Other, Rake, Other, No Build, Ruby Gem.

Build command:	If a build system other than the ones listed has to be used, select “Other” in the Build system field and provide a build command to execute the package. This is only used with C/C++, Python, or Ruby packages.
Advanced settings:	Additional settings that should be included in the Build script
Package dependencies:	Platform, platform version, and dependencies required by the package
Build script:	Script to run to build the package

7. To specify a platform, platform version, and list of dependencies for your package, select **Add New Dependency** in the **Package dependencies** section. Then select **OK**. Multiple sets of platforms and dependencies may be added.



Platform:	Select a supported platform and platform version
Dependency List:	A space separated list of packages required for the selected platform version. These packages will be supplied to and installed with the package manager for the associated platform before your build script is run.

8. Review the **Build script** to ensure the correct script will be executed.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area for 'swamp1999'. Below the navigation bar, the main content area is titled 'Build system *' and shows a 'Configure+Make' dropdown menu. There are two main sections: 'Advanced settings' and 'Build script'. The 'Advanced settings' section contains a 'Configure' button and a 'Build' button. The 'Build script' section contains a code editor with the following Unix shell script:

```
tar xzf condor_src-8.0.4-all-all.tar.gz
cd condor-8.0.4/
./configure
make
```

Both sections have a note indicating that required fields are marked with an asterisk (*Fields are required).

The **Build script** can be changed by filling out the optional fields under **Advanced settings**.

Use the **Select** button to choose a new path or file.

*****Note:** Only directories/folders appear by default. You may need to check **Show all files**. Selected build files are identified by a puzzle icon and gold font.

Advanced settings

The screenshot shows a user interface for managing build configurations. At the top, there are three tabs: 'Advanced settings' (selected), 'Configure' (highlighted in orange), and 'Build'. Below these are two main sections: 'Configure settings' and 'Build settings'. Each section contains four input fields with 'Select' buttons.

Section	Setting	Description
Configure settings	Configure path	The name of the directory relative to package-dir to change before running the configure command. If undefined/empty, '.' is assumed. (Optional)
	Configure command	The name of a command to configure the package before building. If undefined/empty, no command is run. (Optional)
	Configure options	The name of options, i.e. the arguments to pass to the configure command. (Optional)
Build settings	Build path	The path to the directory related to the source path to change to before building. If undefined/empty, '.' is assumed. (Optional)
	Build file	The path to the build file related to the build path to use for the build systems. For the Build system "Other," the name of the file needs to be passed in the build options. (Optional)
	Build options	Name of the options and arguments to pass to the build command. (Optional)
	Build target	The name of the file to be created by the build process. This target is passed to the build command. (Optional)

- Configure path:** The name of the directory relative to package-dir to change before running the configure command. If undefined/empty, '.' is assumed. (Optional)
- Configure command:** The name of a command to configure the package before building. If undefined/empty, no command is run. (Optional)
- Configure options:** The name of options, i.e. the arguments to pass to the configure command. (Optional)
- Build path:** The path to the directory related to the source path to change to before building. If undefined/empty, '.' is assumed. (Optional)
- Build file:** The path to the build file related to the build path to use for the build systems. For the **Build system** "Other," the name of the file needs to be passed in the build options. (Optional)
- Build options:** Name of the options and arguments to pass to the build command. (Optional)
- Build target:** The name of the file to be created by the build process. This target is passed to the build command. (Optional)

9. If you are not a Project Owner or have not been invited to any Projects, select **Save New Package** at the bottom of the **Build** tab.

*****Note:** By default, the Package will be shared with your My Project.

10. If you are a Project Owner with your own Projects or have been invited to a Project, select **Next** at the bottom of the **Build** tab. You will now be on the **Sharing** tab.

To share this Package with one or more Projects, check the box to the left of a Project, and select **Save New Package**.

*****Note:** If a Project is not selected, the Package will be shared with your My Project.

The screenshot shows the SWAMP application's 'Add New Package' interface. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. Below the navigation is a sidebar with various icons. The main area has a title 'Add New Package' with a large plus sign icon. Underneath, there's a breadcrumb trail: Home / Packages / + Add New Package. Below the trail are tabs for Details, Source, Build, and Sharing, with Sharing being the active tab. A note says 'This package version is shared with members of the following projects:' followed by a table. The table has columns for Project and Description. It contains one row for 'My Test Project' with the description 'This is a test project.'. A red box highlights the 'Save New Package' button at the bottom of the table. Navigation buttons 'Prev' and 'Cancel' are also visible.

11. You will receive a notification once the Package upload is complete. Select **OK**.

The screenshot shows a 'Notification' dialog box overlaid on the SWAMP interface. The dialog has an info icon and the message 'Package My Test Package version 1.0 has been uploaded successfully.' At the bottom right of the dialog is a yellow 'OK' button with a red border. The background shows the same 'Add New Package' screen as the previous screenshot, with the 'Sharing' tab selected and the 'My Test Project' entry visible. The 'Save New Package' button is also highlighted with a red box.

Uploading a New C/C++ Package

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

[Details](#) [Source](#) [Build](#) [Sharing](#)

Name *	My Test Package
Description	This is a test, this is only a test.
External URL	
File	Choose File condor_src-8.0.4-all-all.tar.gz
formats supported	
Version *	1.0
Version notes	

PAGE INFO

PAGE VERSION INFO

*Fields are required

C/C++, Details Tab

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

[Details](#) [Source](#) [Build](#) [Sharing](#)

Package path *	condor-8.0.4/
Language *	C/C++

Show File Types

Select

*Fields are required

C/C++, Source Tab

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

[Details](#) [Source](#) [Build](#) [Sharing](#)

The following parameters are used to configure the build script which is used to build the package.

Build system *

[Advanced settings](#) [Configure](#) [Build](#)

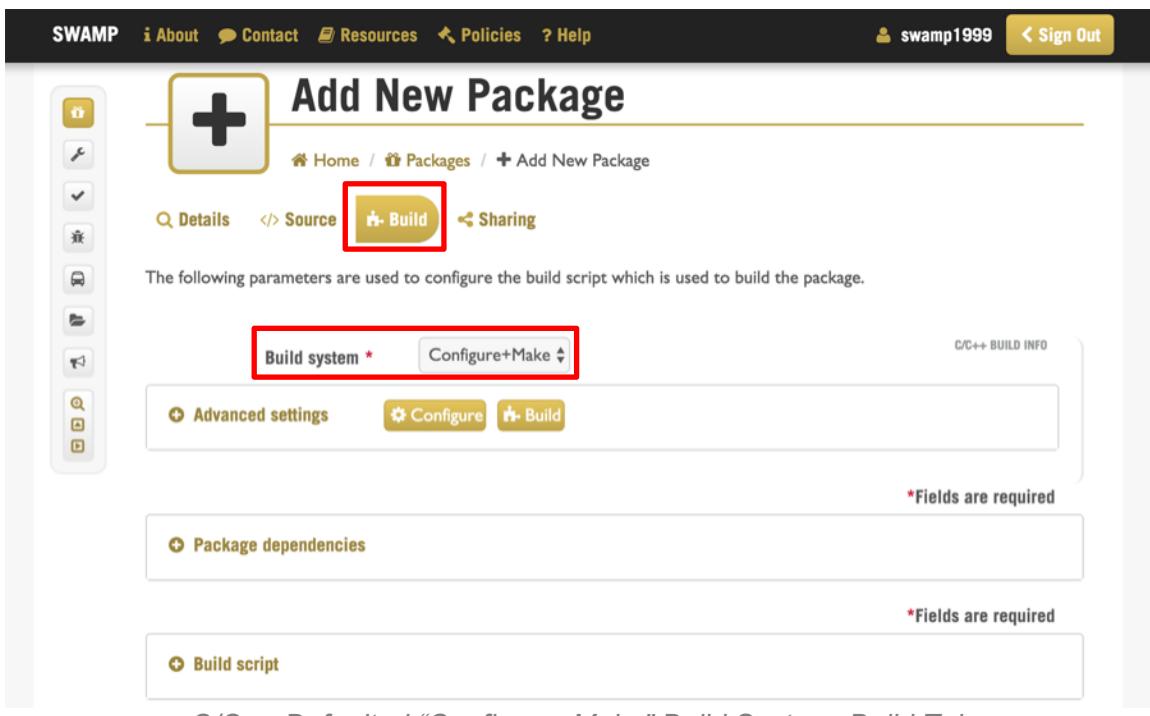
*Fields are required

[+ Package dependencies](#)

*Fields are required

[+ Build script](#)

C/C++ Defaulted “Configure+Make” Build System, Build Tab



SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

[Details](#) [Source](#) [Build](#) [Sharing](#)

The following parameters are used to configure the build script which is used to build the package.

Build system *

Build command *

[Advanced settings](#) [Configure](#) [Build](#)

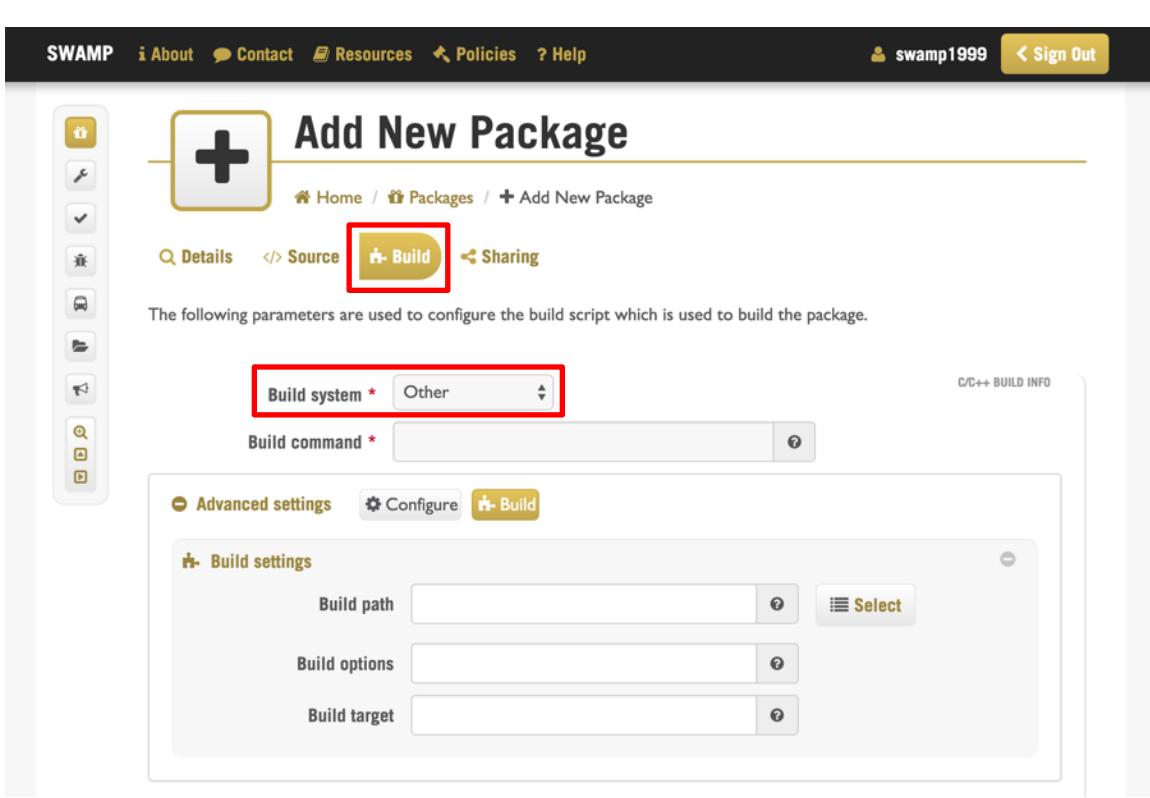
[+ Build settings](#)

Build path [Select](#)

Build options

Build target

C/C++ “Other” Build System, Build Tab



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

swamp1999 [Sign Out](#)

Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

Details [Source](#) **Build** Sharing

Notice: By selecting the no build option, analysis is limited to compilable files located in the package path (nonrecursive).

The following parameters are used to configure the build script which is used to build the package.

Build system * No build C/C++ BUILD INFO

*Fields are required

Package dependencies *Fields are required

C/C++ “No Build” Build System, Build Tab

Advanced settings [Configure](#) [Build](#)

Configure settings

Configure path Select

Configure command Select

Configure options Select

Build settings

Build path Select

Build file Select

Build options Select

Build target Select

C/C++, Advanced Settings

Uploading a New Java Source Package

The screenshot shows the SWAMP web application interface for uploading a new Java source package. The top navigation bar includes links for About, Contact, Resources, Policies, Help, and a user account for swamp1999. The main title is "Add New Package". A sidebar on the left contains various icons for file management. The "Q Details" tab is selected and highlighted with a red box. Below the tabs are three sections: "PACKAGE INFO", "PACKAGE VERSION INFO", and "Version notes". The "PACKAGE INFO" section contains fields for Name (My Test Java Source Package), Description, and External URL. The "PACKAGE VERSION INFO" section contains fields for File (Choose File: clojure-1.5.1.tar.gz) and Version (1.0). A note at the bottom right indicates that *Fields are required.

Add New Package

Home / Packages / + Add New Package

Q Details (highlighted)

Source Build Sharing

Name * My Test Java Source Package

Description

External URL

File Choose File clojure-1.5.1.tar.gz

formats supported

Version * 1.0

Version notes

*Fields are required

Java Source, Details Tab

Add New Package

Home / Packages / + Add New Package

Details **Source**

Package path * clojure-1.5.1/

Language * Java

Java type

Java source
The package contains uncompiled Java code in its original source code format (.java files).

Java bytecode
The package contains Java code which has been compiled (.class, .jar, or .apk files).

Android
The package contains uncompiled Java code for the Android platform.

Java version

Java7
The package contains Java code for the Java7 platform.

Java8
The package contains Java code for the Java8 platform.

*Fields are required

Java Source, Source Tab

The screenshot shows the SWAMP application's 'Add New Package' page. On the left is a vertical toolbar with icons for file operations like Open, Save, Copy, Paste, and Delete. The main area has a title 'Add New Package' with a large plus sign icon. Below it is a breadcrumb trail: Home / Packages / + Add New Package. There are four tabs at the top: 'Details' (disabled), 'Source' (disabled), 'Build' (highlighted with a red box), and 'Sharing'. A note below the tabs says: 'The following parameters are used to configure the build script which is used to build the package.' Under the 'Build' tab, there is a dropdown for 'Build system' set to 'Ant'. To the right is a panel titled 'JAVA SOURCE BUILD INFO' containing 'Advanced settings', 'Configure', and 'Build' buttons. Below this is a note: '*Fields are required'. A section for 'Package dependencies' is shown with a note: '*Fields are required'. Another section for 'Build script' is also present with a note: '*Fields are required'.

Java Source Defaulted “Ant” Build System, Build Tab

This screenshot is identical to the one above, but the 'Build system' dropdown in the 'Build' tab is now highlighted with a red box and set to 'Gradle'. The rest of the interface, including the toolbar, tabs, notes, and configuration sections, remains the same.

Java Source “Gradle” Build System, Build Tab

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

[swamp1999](#) [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system *	No build
----------------	----------

JAVA SOURCE BUILD INFO

*Fields are required

Package dependencies

No dependencies have been defined.

+ Add New Dependency

*Fields are required

Java Source “No Build” Build System, Build Tab

- Advanced settings [Configure](#) [Build](#)

Configure settings

Configure path	?	Select
----------------	---	--------

Configure command	?
-------------------	---

Configure options	?
-------------------	---

Build settings

Build path	?	Select
------------	---	--------

Build file	?	Select
------------	---	--------

Build options	?
---------------	---

Build target	?
--------------	---

Java Source, Advanced Settings

Uploading a New Android Java Source Package

The screenshot shows the 'Add New Package' interface. On the left is a vertical toolbar with icons for file operations like upload, download, and search. The main area has a title 'Add New Package' with a large plus sign icon. Below it is a breadcrumb trail: Home / Packages / + Add New Package. There are three tabs at the top: 'Details' (highlighted with a red box), 'Source', and 'Build'. The 'Details' tab contains fields for Name (My Test Android Java Package), Description, External URL, File (Choose File: frozenbubbleandroid.zip), Version (1.0), and Version notes. To the right, there are two sections: 'PACKAGE INFO' and 'PACKAGE VERSION INFO'. A note at the bottom right says '*Fields are required'.

Android Java Source, Details Tab

The screenshot shows the 'Add New Package' interface with the 'Source' tab selected (highlighted with a red box). The left sidebar and breadcrumb trail are identical to the previous screenshot. The 'Source' tab includes fields for Package path (frozenbubbleandroid/) and Language (Java, with a 'Show File Types' button). Below these, a 'Java type' section contains three options: 'Java source' (selected, with a description about uncompiled Java code), 'Java bytecode' (with a description about compiled Java code), and 'Android' (checked, with a description about Java code for the Android platform). A note at the bottom right says '*Fields are required'.

Android Java Source, Source Tab

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Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

[Details](#) [Source](#) [Build](#) [Sharing](#)

Notice: This package appears to use the 'Ant' build system. You can set the build system if this is not correct.

The following parameters are used to configure the build script which is used to build the package.

Build system * Ant

Advanced settings [Android](#) [Configure](#) [Build](#)

Build settings

Build path [Select](#)

Build file [Select](#)

Build options

Build target * other

Other build target *

ANDROID SOURCE BUILD INFO

Android Java Source Defaulted “Ant” Build System, Build Tab

ANDROID SOURCE BUILD INFO

Build system * Ant

Advanced settings **Android** **Configure** **Build**

Android settings

Android SDK target ?

Android lint target ?

Android redo build ?

Configure settings

Configure path ? **Select**

Configure command ?

Configure options ?

Build settings

Build path ? **Select**

Build file ? **Select**

Build options ?

Build target * other

Other build target * ?

Android Java Source “Ant” Build System, Advanced Settings

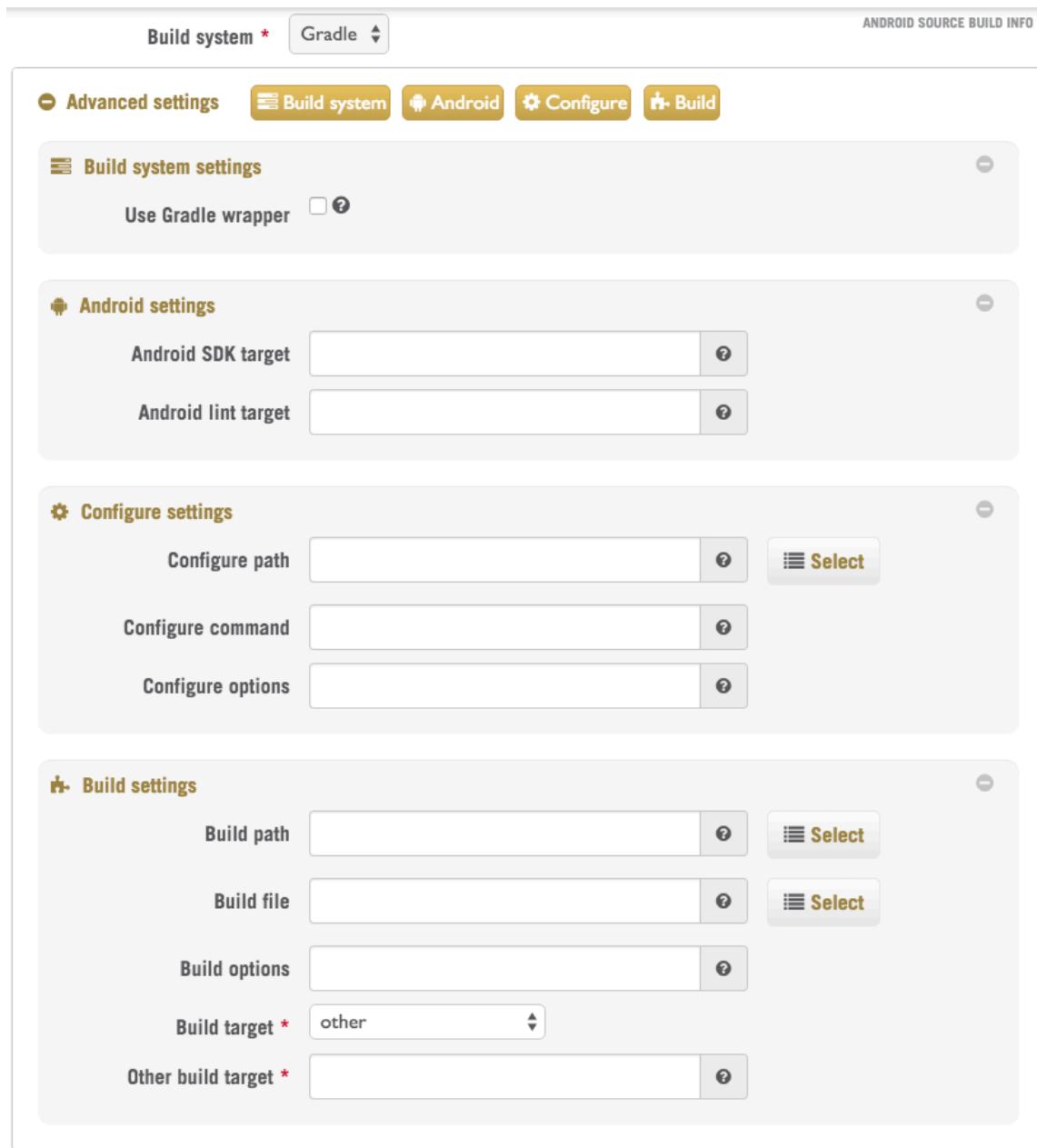
Android SDK target: A string describing the target Android SDK version
(Optional)

Android lint target: The appropriate lint target. The SWAMP uses the android standard target of ‘lint’. Use if the android build disables this normal lint target, if android lint fails, if a specific lint target per build command is required, or to see different lint target output in the SWAMP.
(Optional)

Android redo build: Check to attempt to infer the manifest file and redo the build from the package contents (Optional)

Build target: The name of the target created during the build.
Options include: release, debug, other.

Other build target: The name of the target created during the build. This field only appears with “other” as the **Build target**.



Android Java Source “Gradle” Build System, Advanced Settings

Use Gradle wrapper: The standard way to make a Gradle package use a specific version of Gradle, if required. (Optional)

Build system * Maven ANDROID SOURCE BUILD INFO

Advanced settings Build system Android Configure Build

Build system settings

Maven version ?

Android Maven plugin ?

Android settings

Android SDK target ?

Android lint target ?

Configure settings

Configure path ? Select

Configure command ?

Configure options ?

Build settings

Build path ? Select

Build file ? Select

Build options ?

Build target * ?

Android Java Source "Maven" Build System, Advanced Settings

Maven version: A string describing the version of Maven to use. May need to be specified if the package requires a particular version of Maven to compile correctly.
(Optional)

Android Maven plugin: A string describing the version of Android Maven plugin to use. The version used at build-time may be upgraded to be compatible with the Android SDK.
(Optional)

- Android SDK target:** A string describing the target Android SDK version
(Optional)
- Android lint target:** The appropriate lint target. The SWAMP uses the android standard target of 'lint'. Use if the android build disables this normal lint target, if android lint fails, if a specific lint target per build command is required, or to see different lint target output in the SWAMP.
(Optional)
- Build target:** The name of the target created during the build.

Uploading a New Java Bytecode Package

The screenshot shows the SWAMP web application's interface for adding a new package. The main title is "Add New Package". On the left, there is a vertical toolbar with various icons. The "Details" tab is currently selected and highlighted with a red box. The form itself has several fields: "Name" (containing "My Test Java Bytecode Package"), "Description" (empty), "External URL" (empty), "File" (with a "Choose File" button set to "closure-1.5.1.tar.gz" and a note "formats supported"), "Version" (containing "1.0"), and "Version notes" (empty). To the right of the form, there are two sections labeled "PACKAGE INFO" and "PACKAGE VERSION INFO". At the bottom right of the form area, there is a note: "*Fields are required".

Java Bytecode, Details Tab

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swamp1999 [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

Details **Source** Build

Package path * clojure-1.5.1/ [Select](#)

Language * Java [Show File Types](#)

Java type

Java source
The package contains uncompiled Java code in its original source code format (.java files).

Java bytecode
The package contains Java code which has been compiled (.class, .jar, or .apk files).

Android APK
The package contains compiled Java code for the Android platform.

Java version

Java7
The package contains Java code for the Java7 platform.

Java8
The package contains Java code for the Java8 platform.

*Fields are required

Java Bytecode, Source Tab

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[swamp1999](#) [Sign Out](#)

Add New Package

The following parameters are used to configure the build script which is used to build the package.

Class path *

.

[Add](#)

[JAVA BYTECODE INFO](#)

[Advanced settings](#)

*Fields are required

[Package dependencies](#)

No dependencies have been defined.

[+ Add New Dependency](#)

*Fields are required

Java Bytecode, Build Tab

Class path: A ‘:’ separated list of paths to Java archive files (jar, zip, war, ear files), class files, or directories containing class files that are to be assessed. For a directory, all class files in the directory tree are assessed. A directory path can end with a wildcard character ‘*’ to assess all jar files in the directory. These paths are relative to the package path.

[Advanced settings](#)

[Path settings](#)

Aux class path

Source path

[Add](#)

[Add](#)

Java Bytecode, Advanced Settings

Aux class path: A ‘:’ separated list of paths to Java archive files (jar, zip, war, ear files), class files, or directories containing

class files that are referenced by the bytecode in the package-classpath. These files are not assessed by a swa-tool. For a directory, all class files in the directory tree are assessed. A directory path can end with a wildcard character '*' to include all jar files in the directory. These paths are relative to the package path.

- Source path:** A ':' separated list of paths to directories containing source files for the bytecode in the classpath. For the source information to be present in the assessment reports, the bytecode in package-classpath must be compiled with debugging information (see javac -g option). These paths are relative to the package path.

Uploading a New Android APK Java Bytecode Package

The screenshot shows the SWAMP web application's interface for adding a new package. The main title is "Add New Package". On the left, there is a vertical toolbar with various icons. The "Details" tab is currently selected and highlighted with a red box. Other tabs available are "Source", "Build", and "Sharing". The "Name" field is populated with "My Test Android APK Package". The "File" field has a placeholder "Choose File No file chosen" and a note below it stating "formats supported". The "Version" field is set to "1.0". The "Version notes" field is empty. A note at the bottom right of the form area states "*Fields are required".

Android APK Java Bytecode, Details Tab

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

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Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

[Details](#) [Source](#) [Build](#)

Package path * droid-app/ [Select](#)

Language * Java [Show File Types](#)

Java type

Java source
The package contains uncompiled Java code in its original source code format (.java files).

Java bytecode
The package contains Java code which has been compiled (.class, .jar, or .apk files).

Android APK
The package contains compiled Java code for the Android platform.

*Fields are required

Android APK Java Bytecode, Source Tab

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Add New Package

[Home](#) / [Packages](#) / [+ Add New Package](#)

[Details](#) [Source](#) [Build](#) [Sharing](#)

Notice: This package appears to use the 'Android APK' build system. You can set the build system if this is not correct. [X](#)

The following parameters are used to configure the build script which is used to build the package.

Build system * [Android APK](#) ANDROID BYTECODE BUILD INFO

*Fields are required

Package dependencies

No dependencies have been defined.

[+ Add New Dependency](#)

*Fields are required

Android APK Java Bytecode, Build Tab

Uploading a New Python Package

The screenshot shows the 'Add New Package' page. On the left is a vertical toolbar with icons for file operations like upload, download, and search. The main area has a large yellow plus icon. Below it, tabs for 'Details', 'Source', 'Build', and 'Sharing' are shown; 'Details' is highlighted with a red box. The 'Details' tab contains fields for Name (My Test Python Package), Description, External URL, File (Choose File: AeroCalc-0.11.tar.gz), Version (1.0), and Version notes. A note at the bottom right says '*Fields are required'. To the right of the form are two vertical sections labeled 'PACKAGE INFO' and 'PACKAGE VERSION INFO'.

Details Tab Fields:

- Name: My Test Python Package
- Description: (empty)
- External URL: (empty)
- File: Choose File: AeroCalc-0.11.tar.gz
formats supported
- Version: 1.0
- Version notes: (empty)

*Fields are required

Python, Details Tab

The screenshot shows the 'Add New Package' page with the 'Source' tab highlighted by a red box. The 'Source' tab includes fields for Package path (AeroCalc-0.11/) and Language (Python). Below these, a section titled 'Python version' contains two radio button options: 'Python2' (selected) and 'Python3'. A note at the bottom right says '*Fields are required'.

Source Tab Fields:

- Package path: AeroCalc-0.11/
- Language: Python

Python version

Python2
The package contains Python source code in its original (2000 - 2008) dialect (version 2.x).

Python3
The package contains Python source code in its most recent (2008 onwards) dialect (3.x).

*Fields are required

Python, Source Tab

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Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system * Build with Setuptools

Advanced settings **Configure** **Build**

PYTHON BUILD INFO

*Fields are required

Package dependencies

*Fields are required

Build script

Python Defaulted “Build with Setuptools” Build System, Build Tab

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Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system * Build (Other)

Build command *

Advanced settings **Configure** **Build**

PYTHON BUILD INFO

*Fields are required

Package dependencies

*Fields are required

Build script

Python “Other” Build System, Build Tab

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

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Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

Notice: By selecting the no build option, no configuration or build steps will be performed prior to assessment of files in the package path (recursive). X

The following parameters are used to configure the build script which is used to build the package.

Build system * **No build** ▼ PYTHON BUILD INFO

*Fields are required

Package dependencies

*Fields are required

Python "No Build" Build System, Build Tab

Advanced settings [Configure](#) **Build**

Configure settings

Configure path [Select](#)

Configure command [Select](#)

Configure options [Select](#)

Build settings

Build path [Select](#)

Build file [Select](#)

Build options [Select](#)

Build target * [Select](#)

Python, Advanced Settings

Uploading a New Ruby Package

The screenshot shows the 'Add New Package' interface. On the left is a vertical toolbar with icons for file operations like upload, download, and search. The main area has a title 'Add New Package' with a large plus sign icon. Below it is a breadcrumb trail: Home / Packages / + Add New Package. There are four tabs at the top: 'Q Details' (highlighted with a red box), 'Source', 'Build', and 'Sharing'. The 'Details' tab contains fields for 'Name' (My Test Ruby Package), 'Description', 'External URL', 'File' (Choose File, No file chosen), 'Version' (1.0), and 'Version notes'. To the right, there are two sections: 'PACKAGE INFO' and 'PACKAGE VERSION INFO'. A note at the bottom right says '*Fields are required'.

Ruby, Details Tab

The screenshot shows the 'Add New Package' interface with the 'Source' tab selected (highlighted with a red box). The left sidebar and breadcrumb trail are identical to the previous screenshot. The 'Source' tab includes fields for 'Package path' (tools/), 'Language' (Ruby, with a 'Show File Types' button), and 'Language version' (default, with a 'Show Gem Info' button). Below these, a 'Ruby type' section is expanded, showing options for Ruby, Sinatra, Rails, and Padrino. The 'Ruby' option is selected, with a note that the package contains generic Ruby code. Other options like Sinatra, Rails, and Padrino are also listed with their descriptions.

Ruby, Source Tab

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

swamp1999 [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system * Bundler + Rake

RUBY BUILD INFO

Advanced settings Configure Build

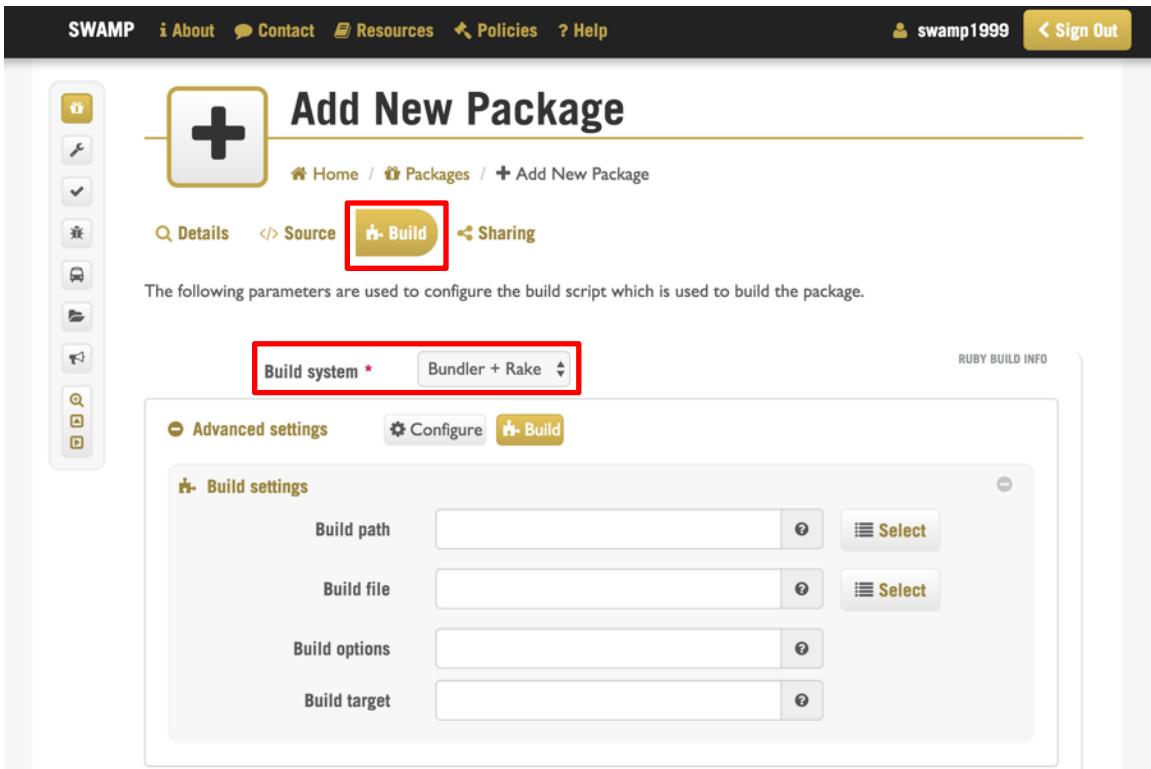
Build settings

Build path Select

Build file Select

Build options

Build target



Ruby Defaulted “Bundler + Rake” Build System, Build Tab

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

swamp1999 [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system * Other

RUBY BUILD INFO

Build command *

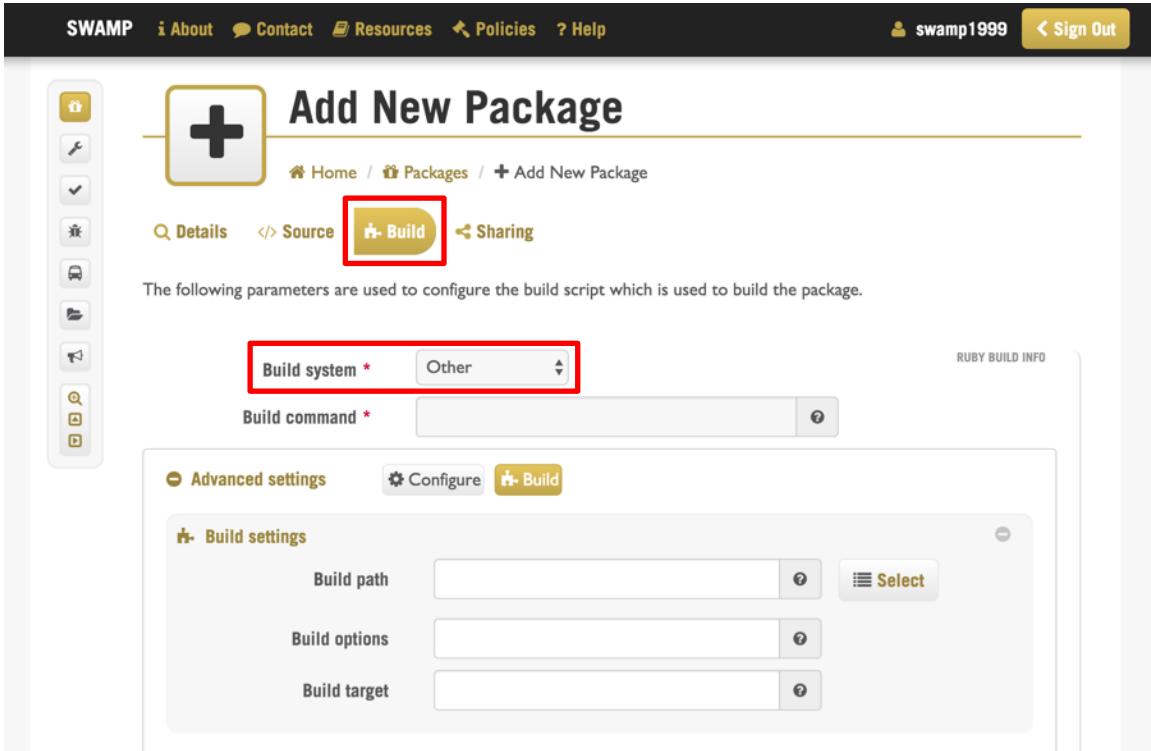
Advanced settings Configure Build

Build settings

Build path Select

Build options

Build target



Ruby “Other” Build System, Build Tab

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

swamp1999 [Sign Out](#)

Add New Package

Home / Packages / + Add New Package

Details Source **Build** Sharing

The following parameters are used to configure the build script which is used to build the package.

Build system * No Build RUBY BUILD INFO

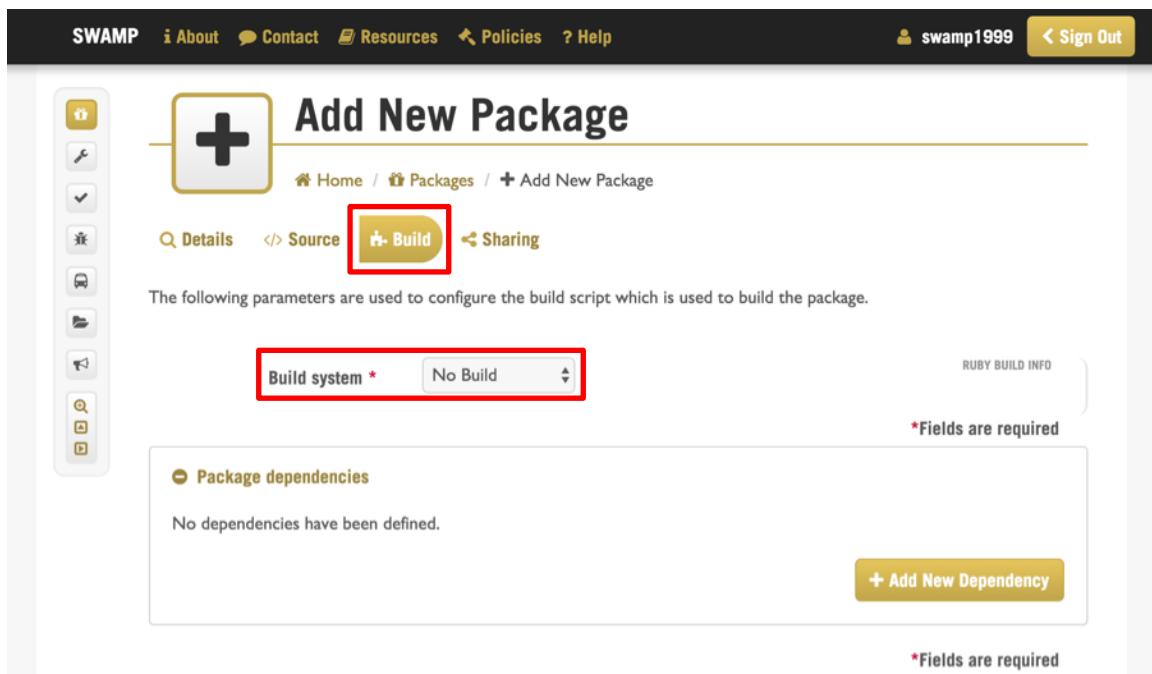
*Fields are required

Package dependencies

No dependencies have been defined.

+ Add New Dependency

*Fields are required



Ruby "No Build" Build System, Build Tab

Advanced settings Configure Build

Configure settings

Configure path Select

Configure command Select

Configure options Select

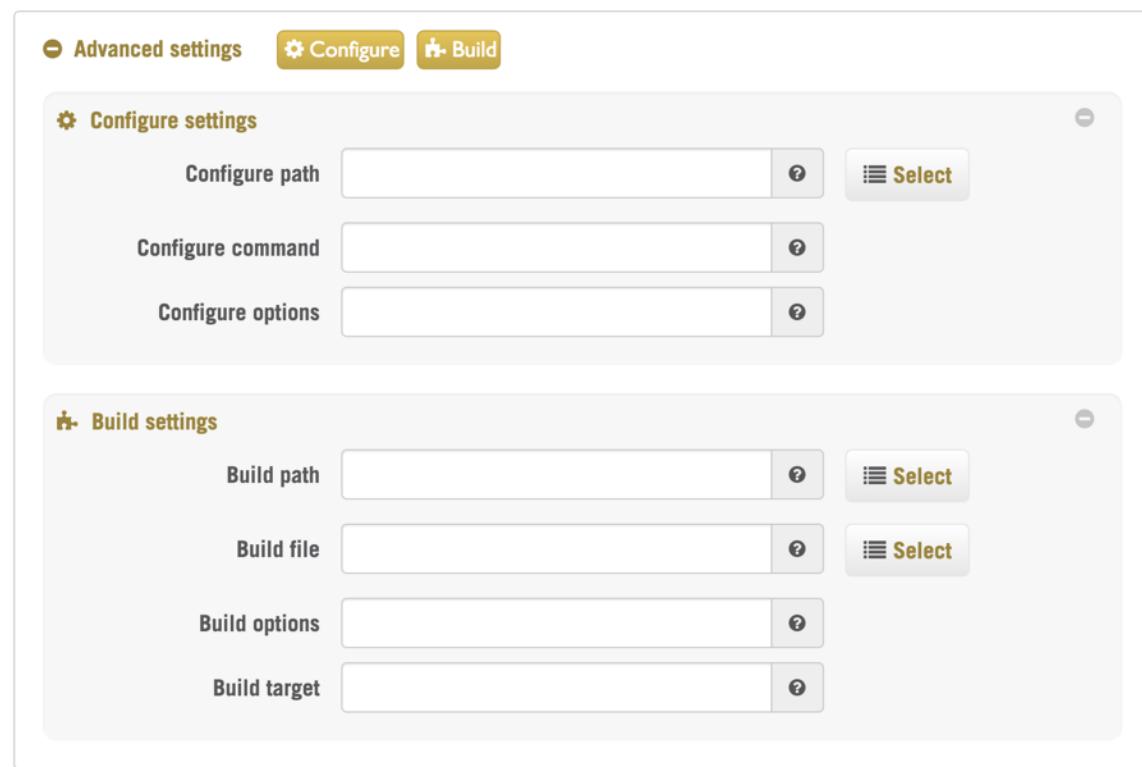
Build settings

Build path Select

Build file Select

Build options Select

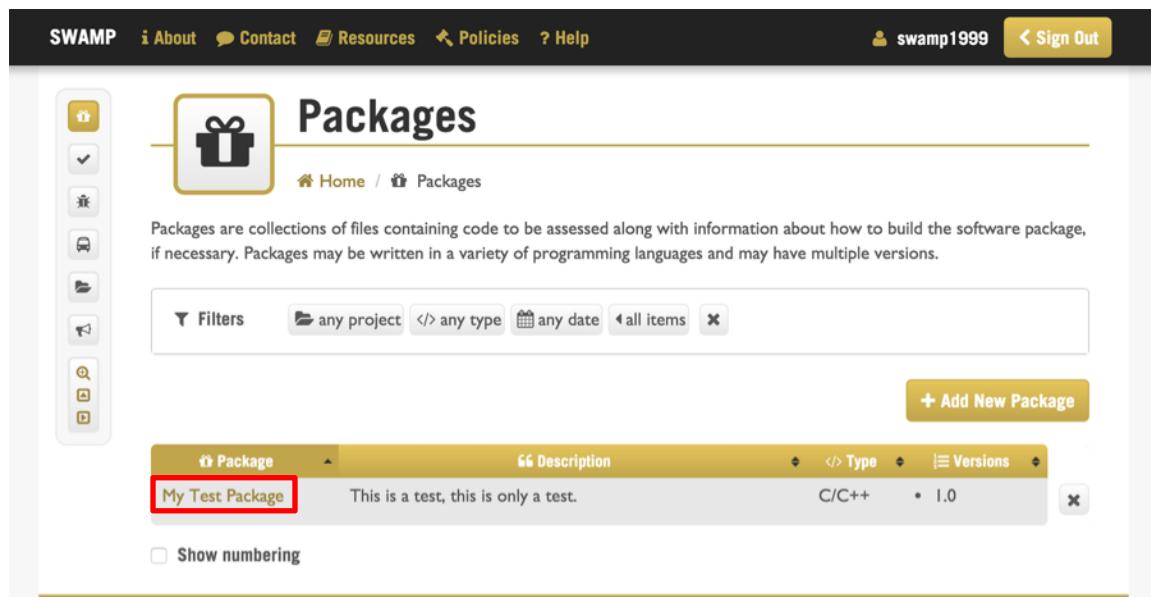
Build target Select



Ruby, Advanced Settings

Editing a Software Package

1. From the **Packages** page, select the name of a Software Package in the Package column to edit.



The screenshot shows the SWAMP software interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User swamp1999, Sign Out.
- Breadcrumbs:** Home / Packages.
- Section Title:** Packages.
- Description:** Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.
- Filters:** any project, </> any type, any date, all items, clear.
- Add New Package:** + Add New Package button.
- Table:** Displays packages with columns: Package, Description, Type, Versions. One row is shown: "My Test Package", "This is a test, this is only a test.", "C/C++", "1.0".
- Checkboxes:** Show numbering.

2. Select **Edit Package**.

The screenshot shows the SWAMP software package management interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out option. The main content area is titled "My Test Package Package". On the left, there is a sidebar with various icons. The central part displays the package details:

Name	My Test Package
Language	C/C++
Creation date	10-29 14:46 (2015)
Last modified date	10-29 09:46 (2015)
External URL	none
Description	This is a test, this is only a test.

Below this, there is a section titled "Versions" with a "Add New Version" button. It shows one version entry:

Version	Notes	Date Added
1.0		10-29 (2015) 14:46

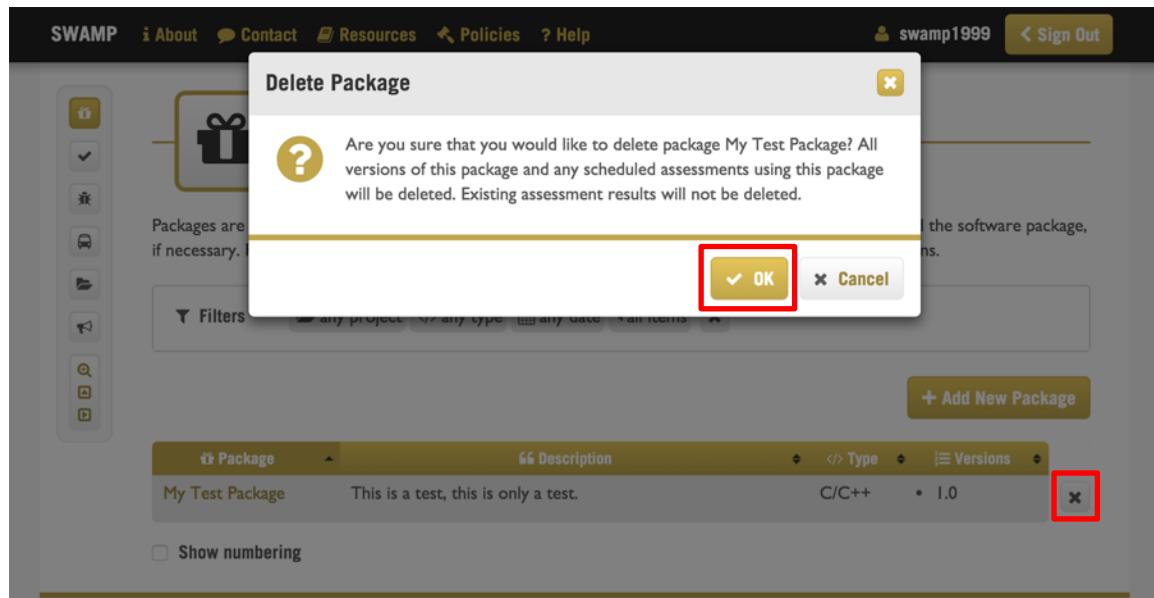
At the bottom of the screen, there are three buttons: "Run New Assessment", "Edit Package" (which is highlighted with a red box), and "Delete Package".

3. From this screen, you can change the name of the Software Package, edit the description, or add an External URL. Make your changes, and select **Save Package**.

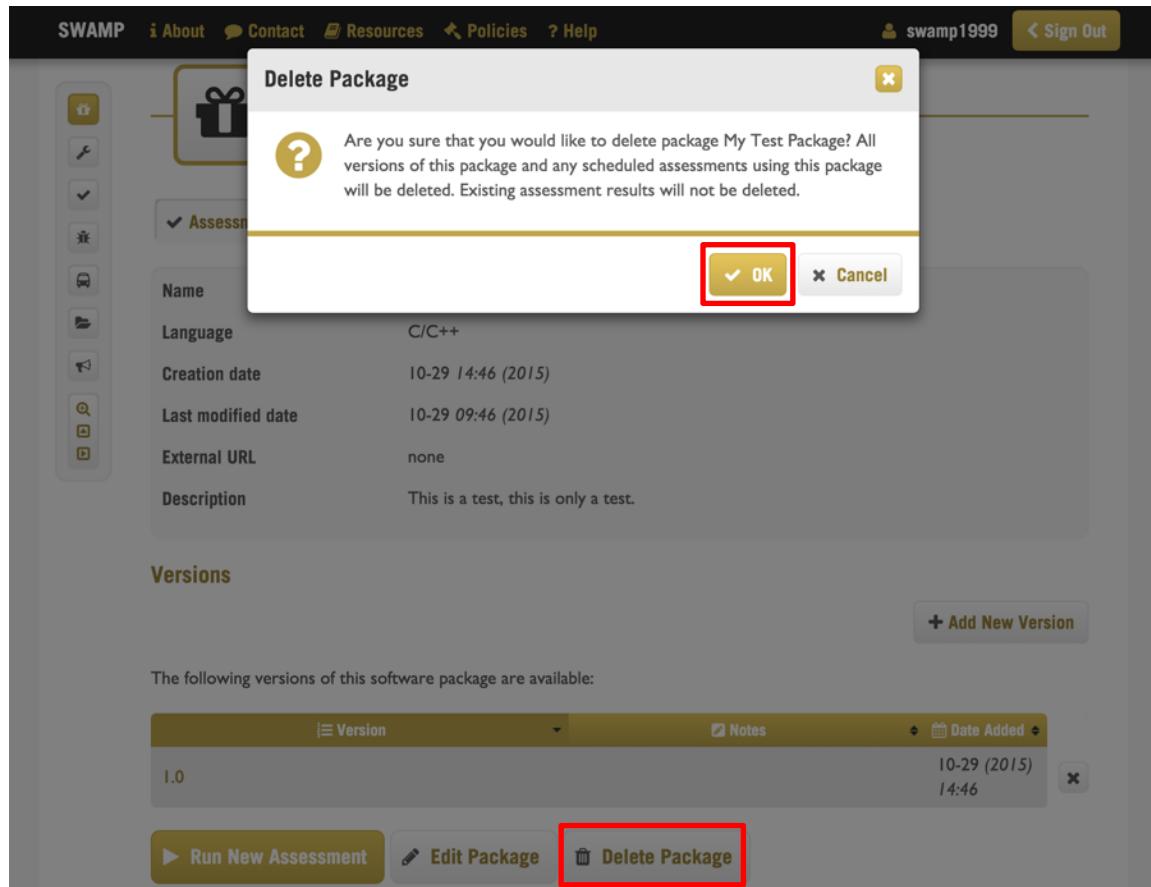
The screenshot shows the "Edit Package My Test Package" form. The top navigation bar and sidebar are identical to the previous screenshot. The main form has fields for "Name" (My Test Package), "Description" (This is a test, this is only a test.), and "External URL" (empty). A note at the bottom right says "*Fields are required". At the bottom, there are two buttons: "Save Package" (highlighted with a red box) and "Cancel".

Deleting a Software Package

You may delete Software Packages that you have created. From the Packages page, select the X next to the Versions column. Then select **OK**.



Alternatively, you can delete a Software Package from within that Package. Select **Delete Package**, and then select **OK**.

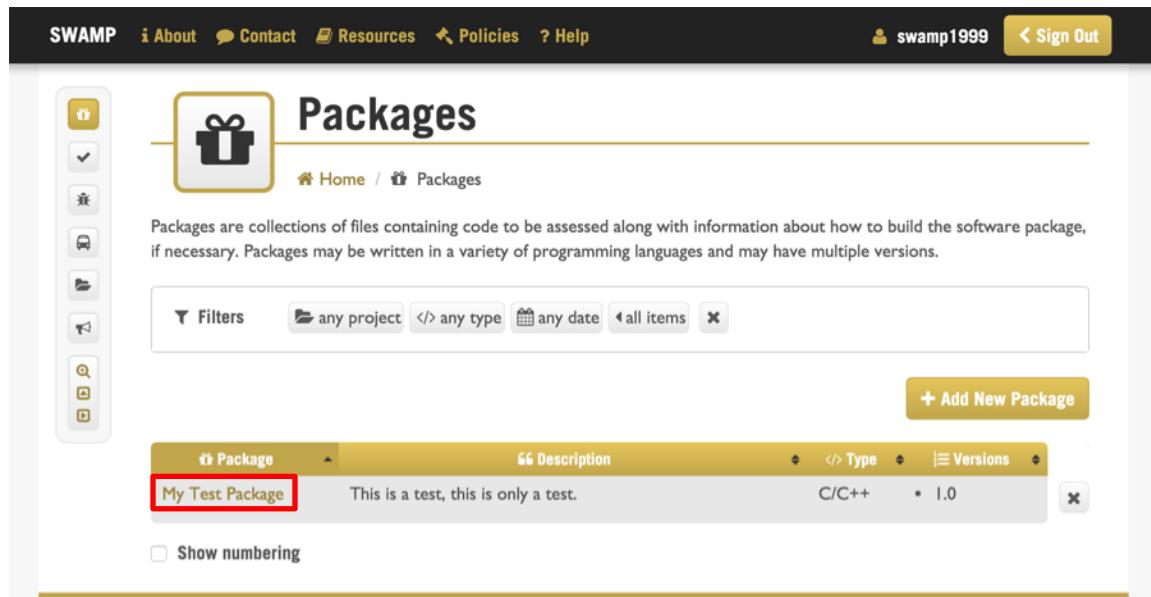


Adding, Viewing and Editing, or Deleting a Software Package Version

Adding a Version of a Software Package

From the Packages page, you can view your Software Packages. Within a Software Package, you can view or add a version.

1. From the **Packages** page, select the name of a Software Package in the Package column.



The screenshot shows the SWAMP software interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out.
- Breadcrumbs:** Home / Packages.
- Section Header:** Packages.
- Description:** Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.
- Filters:** any project, </> any type, any date, all items, X.
- Add New Package:** + Add New Package button.
- Table:** Displays a list of packages. The first row, "My Test Package", is highlighted with a red box. The table columns are Package, Description, Type, and Versions.
- Table Data:**

Package	Description	Type	Versions
My Test Package	This is a test, this is only a test.	C/C++	1.0
- Checkboxes:** Show numbering.

2. From within your Software Package, select **Add New Version**.

The screenshot shows the SWAMP software package interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out section. The main title is "My Test Package". Below the title, there is a sidebar with various icons and a breadcrumb trail: Home / Packages / My Test Package. There are also tabs for Assessments (0), Results (0), and Runs (0). A detailed information box displays the following data:

Name	My Test Package
Language	C/C++
Creation date	10-29 14:46 (2015)
Last modified date	10-29 09:46 (2015)
External URL	none
Description	This is a test, this is only a test.

Below this, a "Versions" section lists one version: 1.0. To the right of the version list is a red-bordered button labeled "+ Add New Version".

The following versions of this software package are available:

Version	Notes	Date Added
1.0		10-29 (2015) 14:46

At the bottom of the screen are three buttons: "Run New Assessment" (yellow), "Edit Package" (grey), and "Delete Package" (grey).

3. On the Details tab of the **Add New Package Version** screen, upload a new version of your package and specify the **Version**.

*****Note:** When choosing a file to upload, hover your mouse over **formats supported** to view the supported file types.

The screenshot shows the SWAMP interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out
- Title:** Add New My Test Package Package Version
- Breadcrumbs:** Home / Packages / My Test Package / Add New Package Version
- Tabs:** Details (highlighted with a red box), Source, Build, Sharing
- Fields:**
 - File: Choose File (No file chosen) - highlighted with a red box
 - Version *: 1.1 - highlighted with a red box
- Note:** formats supported
- Text:** Version notes (empty)
- Buttons:** Next (highlighted with a red box), Cancel

File: Software Package to upload

Version: Revision of the uploaded software

Version notes: A text description of the package version (Optional)

4. Select **Next**, and your package will begin to upload. A progress bar will appear across the bottom of the screen.

- After your file has successfully uploaded, you will be on the **Source** tab.

The SWAMP will automatically review your file to determine an appropriate **Package path**. It may take a few moments to populate this field.

Verify that the correct **Package path** has been chosen, and make changes, if needed, by choosing **Select**.

Once this information is correct, select **Next**.

The screenshot shows the SWAMP web application. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, and Help. On the right, there is a user profile icon labeled 'swamp1999' and a 'Sign Out' button. The main content area has a title 'Add New My Test Package Package Version'. Below the title, there is a breadcrumb trail: Home / Packages / My Test Package / Add New Package Version. There are three tabs: 'Details' (disabled), 'Source' (selected and highlighted with a red box), and 'Build'. A 'Sharing' link is also present. A 'Package path' input field contains 'condor-8.0.4/' with a 'Select' button next to it. At the bottom, there are buttons for 'Next' (highlighted with a red box), 'Prev', 'Show File Types', and 'Cancel'.

Package path:

The name of the top level directory that is produced when the archive file is unarchived. This field is required.

*****Note:** Use the **Select** button to make changes to the **Package path**. In the **Select Package Path** window, only directories/folders appear by default. To view all files, check **Show all files**.

6. On the **Build** tab, the SWAMP will automatically review your file to determine an appropriate **Build system**. It may take a few moments for a value to populate into this field.

Verify that the correct value has been chosen, and make changes, if needed.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. Below the navigation bar, the main title is 'Add New My Test Package Version'. A large yellow button with a plus sign is on the left. Below the title, there is a breadcrumb trail: Home / Packages / My Test Package / Add New Package Version. There are four tabs: Details, Source, Build (which is highlighted with a red box), and Sharing. To the left of the tabs is a vertical sidebar with various icons. The main content area is titled 'Build Info' and contains a description: 'The following parameters are used to configure the build script which is used to build the package.' Below this, there is a configuration section for the 'Build system'. A dropdown menu shows 'Configure+Make' is selected. The 'Advanced settings' tab is active, showing the 'Configure settings' section with fields for 'Configure path' (empty), 'Configure command' (set to '/configure'), and 'Configure options' (empty). A 'Select' button is also present in this section.

7. Review the **Build script** to ensure the correct script will be executed.

The **Build script** can be changed by filling out the optional fields under **Advanced Settings**. Use the **Select** button to choose a new path or file. Refer to the Upload a Software Package, Advanced Settings on pages 69-72 of this User Manual.

Select **Next**.

*****Note:** Only directories/folders appear by default. You may need to check **Show all files**. Selected build files are identified by a puzzle icon and gold font.

Build system * Configure+Make ▾

Advanced settings Configure Build

Platform Version

Dependencies

C/C++ BUILD INFO

PACKAGE DEPENDENCIES

*Fields are required

Build script

The following is the Unix shell script that will be executed to build this package version. If you have a machine running your target platform, you can execute this script on your local machine to validate it, if you wish.

```
tar xzf condor_src-8.0.4-all-all.tar.gz
cd condor-8.0.4/
./configure
make
```

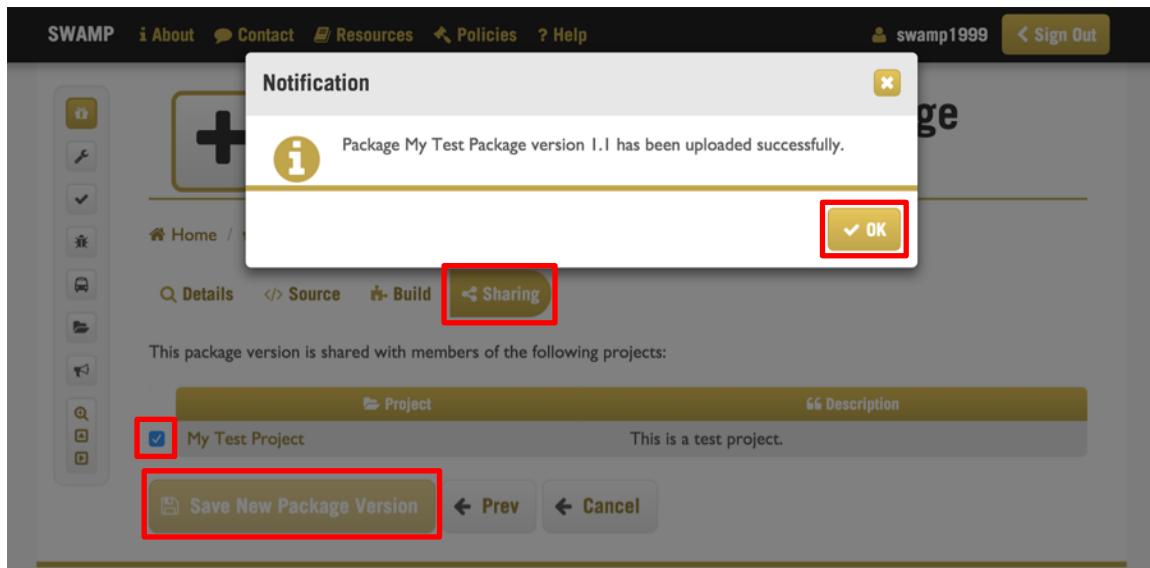
→ Next ← Prev × Cancel

8. You will now be on the **Sharing** tab.

If you are not a Project Owner or have not been invited to a Project, select **Save New Package Version**. By default, this package version will be shared with your My Project.

If you are a Project Owner with your own Projects or have been invited to a Project, you may share this package version with one or more Projects. Check the box to the left of a Project, and select **Save New Package Version**.

You will receive a notification once the Package upload is complete. Select **OK**.



Viewing and Editing a Version of a Software Package

1. From within your Software Package, you will see all uploaded versions.

Select a version of your Software Package from the Version column to view more information about that version.

The screenshot shows the SWAMP software package interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, and Help. On the right side of the top bar, there is a user profile icon labeled "swamp1999" and a "Sign Out" button. Below the navigation bar, there is a sidebar on the left containing various icons for managing packages. The main content area displays the details of a package named "My Test Package". The package details include:

Name	My Test Package
Language	C/C++
Creation date	10-29 13:46 (2015)
Last modified date	10-29 08:46 (2015)
External URL	none
Description	This is a test, this is only a test.

Below the package details, there is a section titled "Versions". A button labeled "+ Add New Version" is visible. The "Versions" table lists two entries:

Version	Notes	Date Added
1.1		11-03 (2015) 10:51
1.0		10-29 (2015) 13:46

At the bottom of the "Versions" section, there are three buttons: "Run New Assessment" (yellow), "Edit Package" (gray), and "Delete Package" (gray).

2. From within a package version, use the tabs to view and edit the Details, Source, Build, and Sharing information.

My Test Package Package Version 1.1

Home / Packages / My Test Package / Package Version 1.1

Assessments 0 | Results 0 | Runs 0

Details | Source | Build | Sharing

Package	My Test Package
Version	1.1
Filename	condor_src-8.0.4-all-all.tar.gz
Creation date	11-03 10:51 (2015)
Last modified date	11-03 10:51 (2015)
Version notes	none

Run New Assessment | Download Version | Edit Version | Delete Version

3. On the Details tab, select **Run New Assessment** to run an assessment using this version of your Software Package. You will then be prompted to select a tool and platform. Refer to Part 4 of this User Manual for how to run an Assessment.

Select **Download Version** to download this version of the Software Package.

Select **Edit Version** to modify the Version and Version notes shown on the Details tab. Select **Save Details** after making changes.

The screenshot shows the SWAMP interface with a navigation bar at the top. The main content area displays "My Test Package Package Version 1.1". On the left is a sidebar with various icons. Below the sidebar, there are tabs: "Details" (highlighted with a red box), "Source", "Build", and "Sharing". The "Details" tab shows the following information:

Package	My Test Package
Version	1.1
Filename	condor_src-8.0.4-all-all.tar.gz
Creation date	11-03 10:51 (2015)
Last modified date	11-03 10:51 (2015)
Version notes	none

At the bottom of the "Details" section are buttons: "Run New Assessment", "Download Version", "Edit Version" (highlighted with a red box), and "Delete Version".

The screenshot shows the SWAMP interface with a navigation bar at the top. The main content area displays "Edit My Test Package 1.1 Package Version Details". On the left is a sidebar with various icons. The page shows fields for "Version *": "1.1" and "Version notes". A note at the bottom right says "*Fields are required". At the bottom are buttons: "Save Details" (highlighted with a red box) and "Cancel".

4. On the **Source** tab, select **Edit Source Info** to choose a new **Package path**. Select **Save Source Info** after making changes.

Select **Show File Types** to view the list of file types contained in this package version within the selected Package path.

The screenshot shows the SWAMP interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out
- Title:** My Test Package Package Version 1.1
- Breadcrumbs:** Home / Packages / My Test Package / Package Version 1.1
- Navigation:** Assessments (0), Results (0), Runs (0)
- Tab Bar:** Details, **Source** (highlighted with a red box), Build, Sharing
- Content:** Package path: condor-8.0.4/
Package version contents: The following is a listing of the contents of this package version.
Buttons: Edit Source Info (highlighted with a red box), Show File Types

The screenshot shows the SWAMP interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out
- Title:** Edit My Test Package 1.1 Package Version Source Info
- Breadcrumbs:** Home / Packages / My Test Package / Package Version 1.1 / Edit Source
- Form:** Package path *: condor-8.0.4/ (with a 'Select' button)
- Buttons:** Save Source Info (highlighted with a red box), Show File Types, Cancel

5. On the **Build** tab, select **Edit Build Info** to choose a new **Build system** or **Platform Version**, to add **Dependencies**, or to change the **Build script** using the **Advanced settings**. Select **Save Build Info** after making changes.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out option for user 'swamp1999'. The main title is 'My Test Package Package Version 1.1'. Below the title, there are tabs for Assessments, Results, Runs, Details, Source, Build (which is highlighted with a red box), and Sharing. A sidebar on the left contains various icons. The central content area displays build configuration parameters: Build system (configure+make), Advanced settings (button), Platform Version (dropdown), Dependencies (input field), and Build script (button). The 'Edit Build Info' button at the bottom of the build configuration section is also highlighted with a red box.

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

 swamp1999 [Sign Out](#)

Edit My Test Package 1.1 Package Version Build Info

[Home](#) / [Packages](#) / [My Test Package](#) / [Package Version 1.1](#) / [Edit Build Info](#)

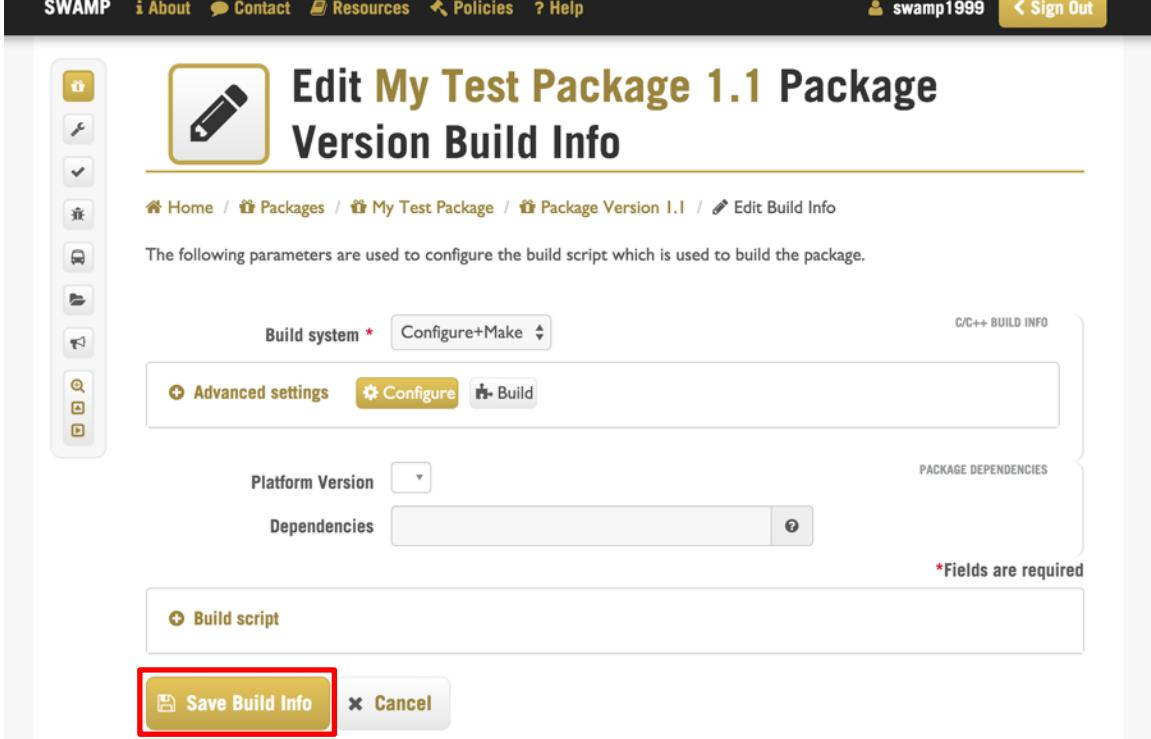
The following parameters are used to configure the build script which is used to build the package.

Build system *	Configure+Make	C/C++ BUILD INFO
<input checked="" type="button"/> Advanced settings <input type="button"/> Configure <input type="button"/> Build		PACKAGE DEPENDENCIES
Platform Version	<input type="button"/>	
Dependencies	<input type="button"/>	

*Fields are required

Build script

Save Build Info Cancel



- On the **Sharing** tab, check or uncheck the box next to a Project to share or unshare this package version with that Project. Select **Save Sharing** after making changes.

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

 swamp1999 [Sign Out](#)

My Test Package Package Version 1.1

[Home](#) / [Packages](#) / [My Test Package](#) / [Package Version 1.1](#)

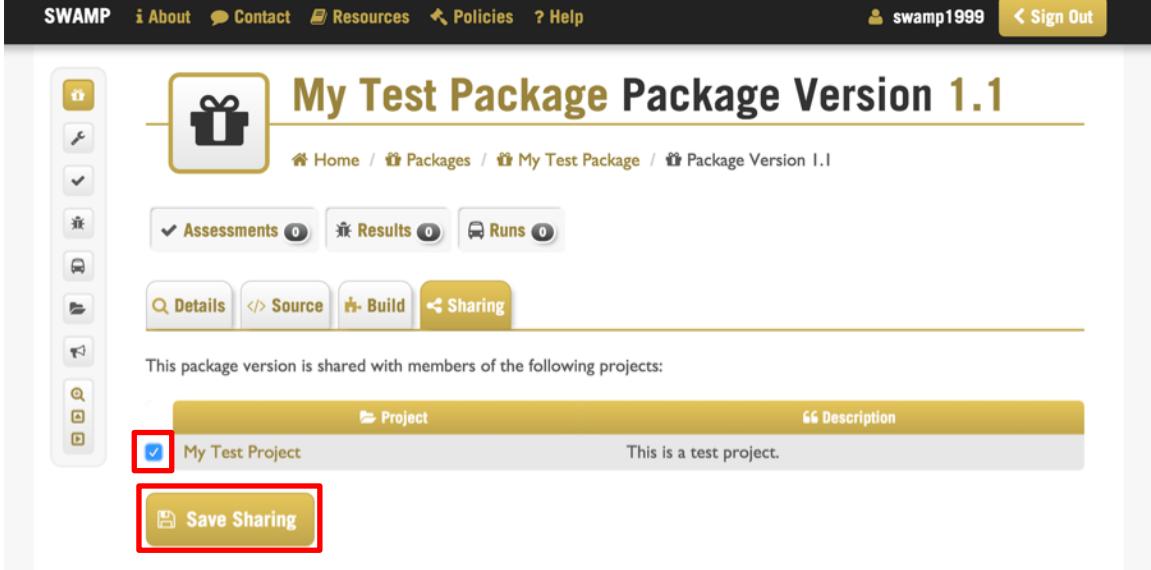
Assessments 0 Results 0 Runs 0

Details Source Build Sharing

This package version is shared with members of the following projects:

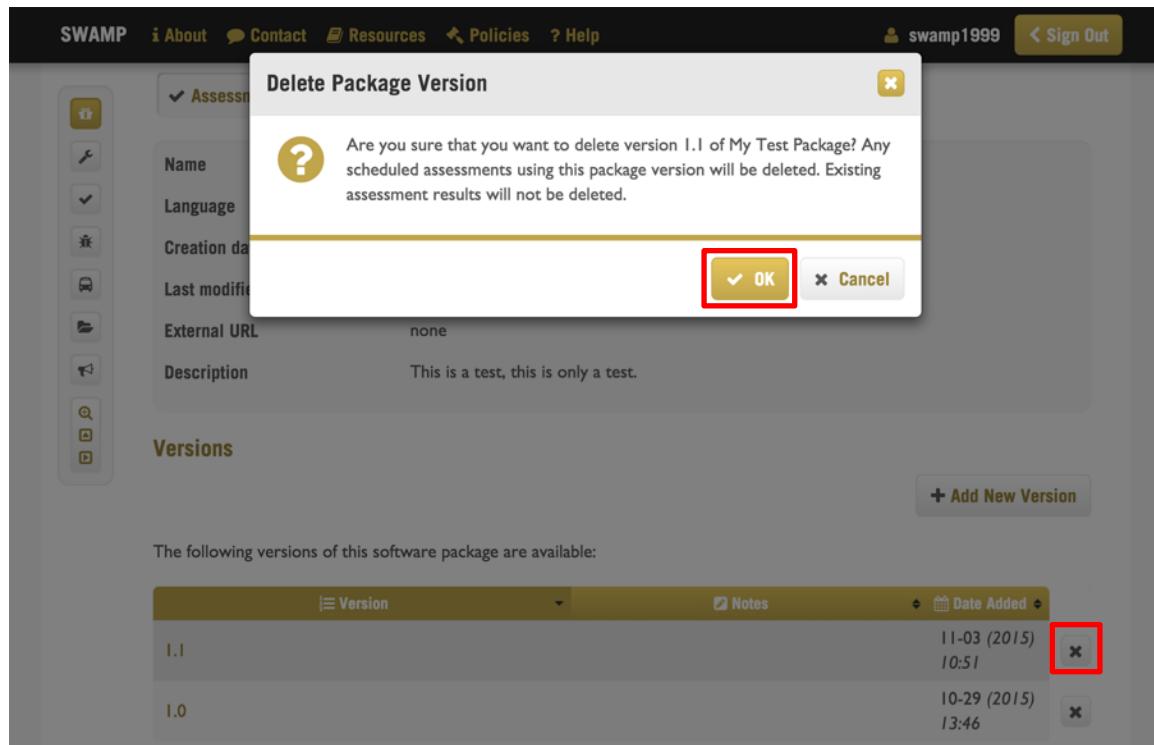
Project	Description
<input checked="" type="checkbox"/> My Test Project	This is a test project.

Save Sharing

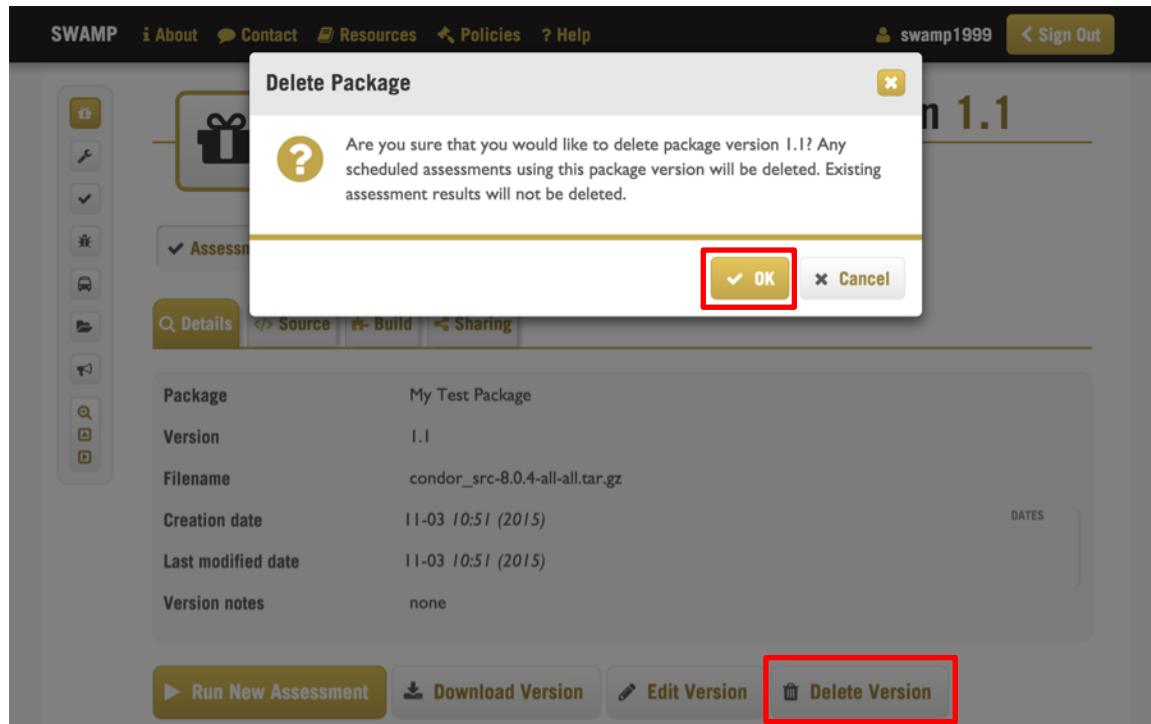


Deleting a Version of a Software Package

You may delete versions of Software Packages. From within your Software Package, select the X next to the Date Added column for that version. Then select **OK**.

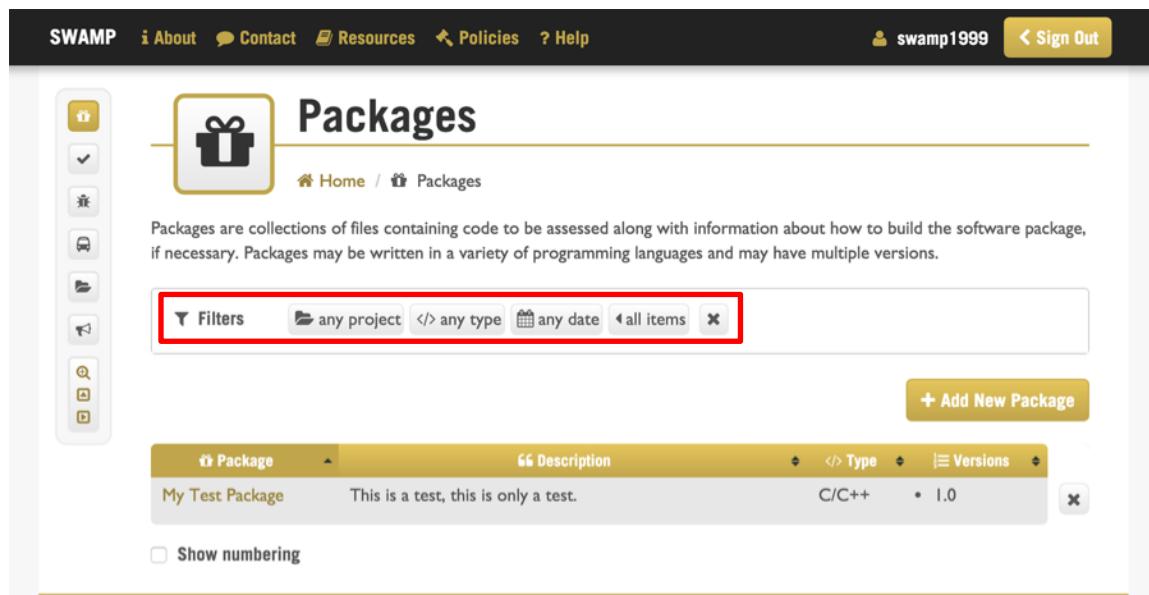


Alternatively, you can delete a version of a Software Package from within that version. Select **Delete Version**, and then select **OK**.



Package Filters

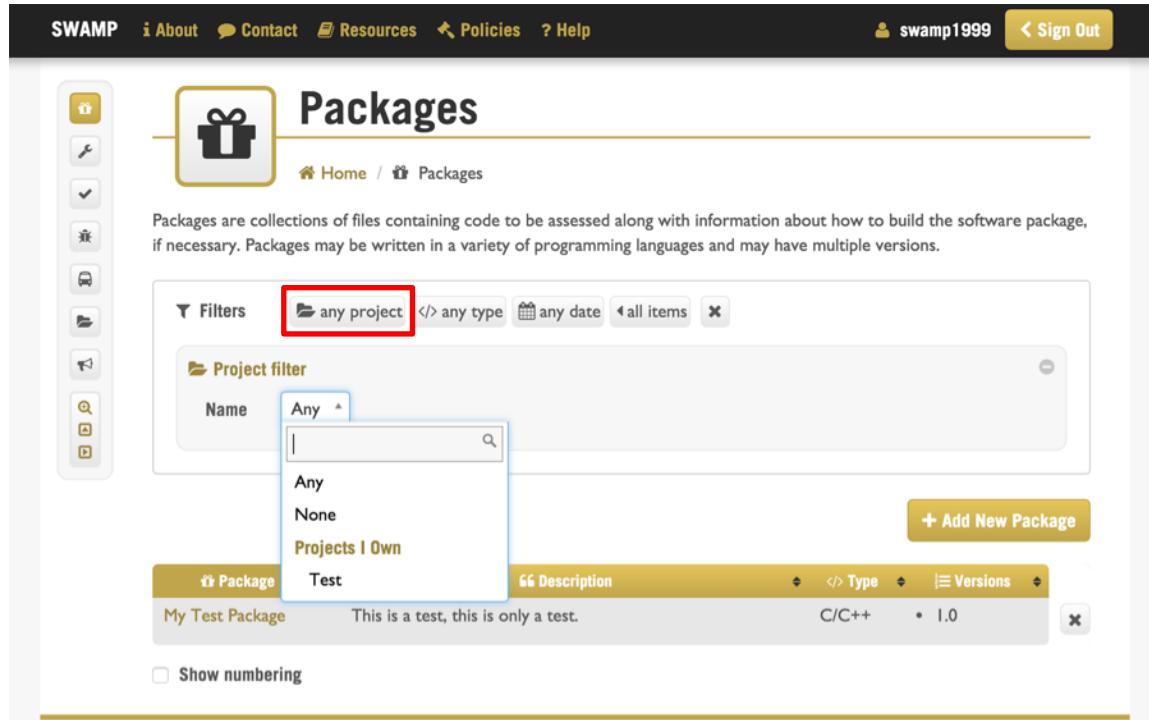
Filters on the Package page allow you to easily find a Package based upon its Project, Type, or Date. You may choose more than one option. Each additional filter chosen will further restrict the set of returned Packages.



The screenshot shows the SWAMP Packages page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account for swamp1999. Below the navigation bar, the main title "Packages" is displayed next to a gift icon. A sidebar on the left contains various icons for project management. The main content area shows a brief description of what packages are, followed by a "Filters" section with four dropdown menus: "any project", "any type", "any date", and "all items". The "all items" dropdown is highlighted with a red box. Below the filters is a table listing a single package: "My Test Package". The table columns are "Package", "Description", "Type", and "Versions". The package details are: Description - "This is a test, this is only a test.", Type - "C/C++", Versions - "1.0". There is also a "Show numbering" checkbox and a "Add New Package" button.

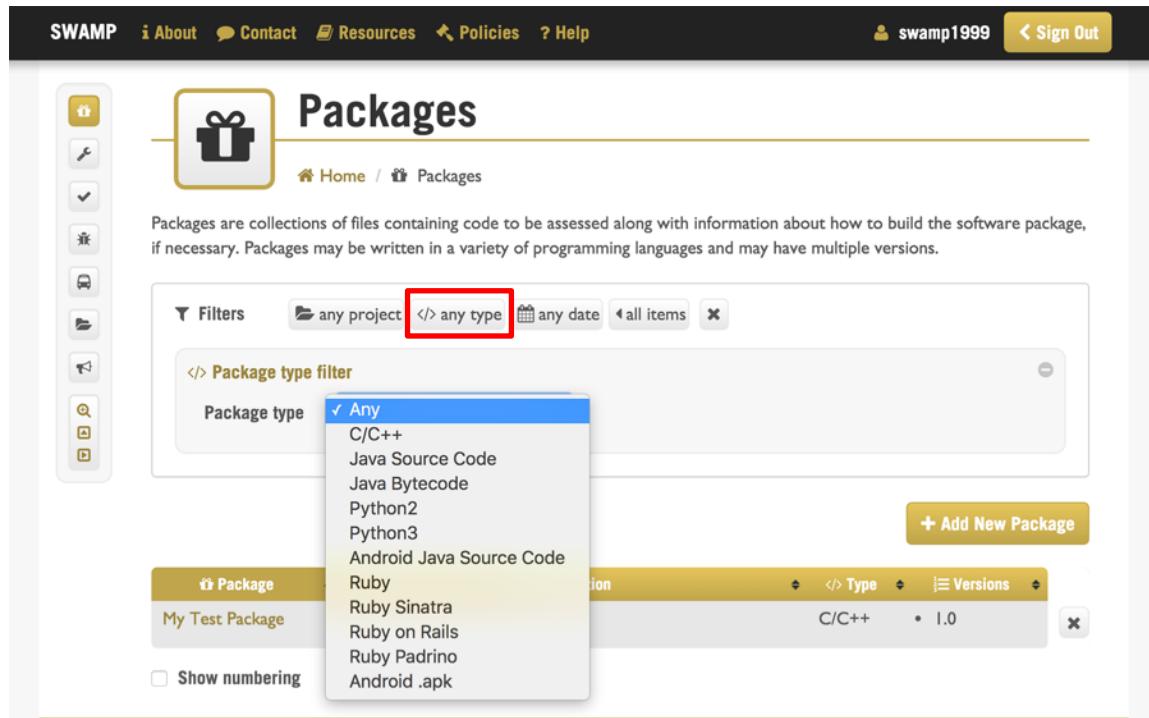
Package	Description	Type	Versions
My Test Package	This is a test, this is only a test.	C/C++	1.0

Select the Project filter to find Packages contained in Any, None, or a specific Project. In this case, None means your My Project.



The screenshot shows the SWAMP application's 'Packages' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation is a sidebar with various icons. The main area has a title 'Packages' with a gift icon. Below the title is a breadcrumb trail: Home / Packages. A text block explains what packages are. On the left, there is a 'Filters' section with a dropdown menu. The 'Project filter' dropdown is open, showing options: Any (selected), None, Projects I Own, and Test. A red box highlights the 'any project' dropdown. To the right of the filters is a table for managing packages. The first row shows 'My Test Package' with a description 'This is a test, this is only a test.', type 'C/C++', and version '1.0'. A 'Show numbering' checkbox is at the bottom. A 'Add New Package' button is located on the right side of the filters.

Select the Type filter to find Packages based upon their package type.



This screenshot shows the same 'Packages' page as the previous one, but with a different filter selected. The 'Type filter' dropdown is now open, showing a list of package types: Any (selected), C/C++, Java Source Code, Java Bytecode, Python2, Python3, Android Java Source Code, Ruby, Ruby Sinatra, Ruby on Rails, Ruby Padrino, and Android .apk. A red box highlights the 'any type' dropdown. The rest of the interface is identical to the first screenshot, including the table of packages and the 'Add New Package' button.

Select the Date filter to find Packages based upon the Date Added. Enter a date in the After or Before field. Dates assume a time of 12:00 AM or midnight.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation bar, the main title "Packages" is displayed next to a gift icon. A sidebar on the left contains various icons for project management. The main content area shows a brief description of what packages are, followed by a "Filters" section. In the "Filters" section, there is a "Date Filter" with two fields: "After" and "Before". The "After" field has a calendar dropdown set to "February 2016" and a date input field showing "mm/dd/yyyy". The "Before" field also has a "mm/dd/yyyy" input field. A red box highlights the "any date" button in the filters. Below the filters, there is a table header with columns for Description, Type, and Versions. A package named "My Test Package" is listed in the table. A "Add New Package" button is located in the top right corner of the table area. At the bottom of the table area, there is a checkbox labeled "Show numbering".

To enter a date range, click the Date filter again and add the other date. To clear a date, select the X within the date field.

The screenshot shows the SWAMP application's 'Packages' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation bar, there is a sidebar with various icons. The main title 'Packages' is displayed next to a gift icon. Below the title, there is a breadcrumb trail: Home / Packages. A descriptive text states: 'Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.' A 'Filters' section contains three dropdown menus: 'any project', 'any type', and 'after Oct 29, 2015'. The 'after Oct 29, 2015' dropdown is highlighted with a red box. Below this is a 'Date Filter' section with 'After' and 'Before' fields. The 'After' field shows '10/29/2015' with a clear button. The 'Before' field has a date picker set to February 2016, with a specific date highlighted. A 'Package' button is visible on the right. The main content area displays a table with one row: 'My Test Package' (Description: 'This is a test, this is only a test.', Type: 'C/C++', Version: '1.0'). There is also a checkbox for 'Show numbering'.

Select the Limit filter to limit the number of Packages displayed.

The screenshot shows the SWAMP application's 'Packages' page. The layout is identical to the previous screenshot, with the same navigation bar, sidebar, and main content area. The 'Filters' section now includes a fourth dropdown: 'any date', which is highlighted with a red box. Below this is a 'Limit filter' section with a 'Maximum # of results to display' input field. The main content area displays the same table as the previous screenshot, showing 'My Test Package' with its details. A 'Add New Package' button is visible at the bottom right.

Select “-” to minimize or close an open filter. Multiple filters may be open simultaneously. To reset the values for a single filter, open the filter, and select **Reset**. To reset the values for all filters, select the **X**. Select **OK** to confirm the reset.

Packages

Home / Packages

Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.

Filters

any project </> any type after Oct 29, 2015 all items **X**

Date Filter

After 10/29/2015 Before mm/dd/yyyy **Reset**

Add New Package

Package	Description	Type	Versions
My Test Package	This is a test, this is only a test.	C/C++	1.0 X

Show numbering

Navigating from Within a Package or Package Version

From within a Software Package or a version of a Software Package, you can easily view Assessments, Results, and Runs associated with that Package or version.

1. From the **Packages** page, select the name of a Software Package in the Package column.

The screenshot shows the SWAMP software interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out
- Breadcrumbs:** Home / Packages
- Section Header:** Packages
- Description:** Packages are collections of files containing code to be assessed along with information about how to build the software package, if necessary. Packages may be written in a variety of programming languages and may have multiple versions.
- Filters:** any project, any type, any date, all items, X
- Add New Package:** + Add New Package
- Table:** Displays packages with columns: Package, Description, Type, Versions. One row is shown:

Package	Description	Type	Versions
My Test Package	This is a test, this is only a test.	C/C++	1.0
- Checkboxes:** Show numbering

2. From within a specific Software Package or version, buttons located at the top of the page take you to the Assessments, Results, or Runs pages.

The screenshot displays two views of the SWAMP software interface. The top view shows the main 'My Test Package' page with a navigation bar, a sidebar with icons, and a central content area. The bottom view shows the 'My Test Package Version 1.0' page, which includes a sidebar, a navigation bar, and a detailed view of the package's version information.

Main Page (Top):

- Header:** SWAMP | About | Contact | Resources | Policies | Help | swamp1999 | Sign Out
- Title:** My Test Package Package
- Breadcrumbs:** Home / Packages / My Test Package
- Buttons:** Assessments (1), Results (1), Runs (0) (highlighted with a red box)
- Table:**| Name | My Test Package |
| Language | C/C++ |
| Creation date | 10-29 13:46 (2015) |
| Last modified date | 10-29 08:46 (2015) |
| External URL | none |
| Description | This is a test, this is only a test. |
- Versions Section:**
 - Header:** Versions | Add New Version
 - Text:** The following versions of this software package are available:
 - Table:**| Version | Notes | Date Added |
| --- | --- | --- |
| 1.0 | | 10-29 (2015) 13:46 |
 - Buttons:** Run New Assessment, Edit Package, Delete Package

3. On those pages, the Package filter is set to the name of your Software Package or version, so only those items relevant to that specific Package or version are shown.

For example, selecting the Assessments button takes you to the Assessments page. On the Assessments page, the Package filter is set so that only those Assessments associated with “My Test Package” are shown.

The screenshot shows the SWAMP interface with the title "Assessments of My Test Package". A sidebar on the left contains various icons. The main content area has a heading "Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment." Below this is a "Filters" section with dropdowns for Package, Tool, Platform, and Results. The "Package" dropdown is set to "My Test Package latest". A red box highlights this selection. At the bottom are buttons for "Run Assessments", "Schedule Assessments", and "Delete Assessments".

4. To return to your Package or version page, you will need to use the back button within your browser to preserve any filters set on that page. Alternatively, you can use the Navigation Bar to return to the Package page and select the name of your Package and then the version.

Part 4: Assessments

Managing Assessments

An **Assessment** is a “triplet” that specifies one Tool to assess one Software Package on one operating system Platform.

On the **Assessments** page, you will perform two main functions: creating an assessment you wish to perform and scheduling your assessment to run.

Creating a New Assessment

Creating an Assessment requires a Software Package. Refer to Part 3 of this User Manual for how to upload a Software Package. You may also choose to run an Assessment using a curated package available in the SWAMP. Refer to Part 7 of this User Manual to learn more about the Resources available in the SWAMP.

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Assessments**.

The screenshot shows the SWAMP Home screen. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user profile with the name 'swamp1999'. Below the navigation bar is the SWAMP logo, which includes a gear with a clock face and the text 'CONTINUOUS ASSURANCE'. The main heading 'SWAMP' is in large, bold letters, with 'SOFTWARE ASSURANCE MARKETPLACE' below it. A tagline 'Do It Early. Do It Often.' is centered. Below the tagline are several sections: 'Packages' (with a gift icon), 'Tools' (with a wrench icon), 'Assessments' (with a checkmark icon, highlighted with a red border), 'Results' (with a bug icon), 'Runs' (with a bus icon), 'Projects' (with a folder icon), and 'Events' (with a megaphone icon). The 'Assessments' section contains the sub-instruction: 'Perform assessments on packages using code analysis tools.'

2. Select Run New Assessment.

The screenshot shows the SWAMP Assessments interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. A 'Sign Out' button is also present. The main title 'Assessments' is displayed above a sidebar containing various icons. Below the title, a breadcrumb trail shows 'Home / Assessments'. There are two buttons: 'Results 0' and 'Runs 0'. A descriptive text block states: 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' Below this is a 'Filters' section with dropdown menus for 'any project', 'any package', 'any tool', 'any platform', and a 'all items' option, along with a clear 'x' button. A large red box highlights the 'Run New Assessment' button, which is located at the bottom right of the page. The message 'No assessments have been defined.' is displayed above the button. There is also a checkbox for 'Show numbering'. At the bottom, there are three buttons: 'Run Assessments' (highlighted in yellow), 'Schedule Assessments', and 'Delete Assessments'.

3. Select a Package. Software Packages which you have uploaded appear under Protected Packages. Curated packages available in the SWAMP appear under Public Packages. Use the search bar to quickly find a desired Package. You may select a specific Package version; the latest version is selected by default.

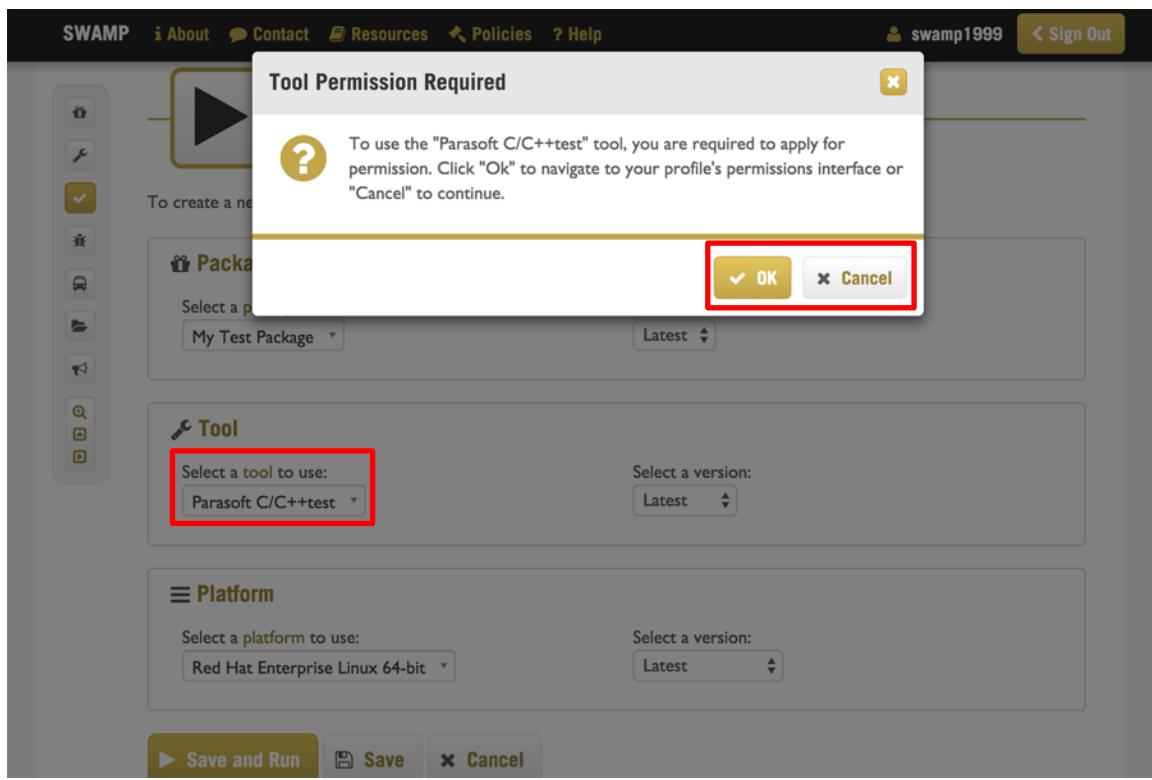
The screenshot shows the 'Run New Assessment' page on the SWAMP platform. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. A 'Sign Out' button is also present. The main title 'Run New Assessment' is centered above a form. To the left of the form is a vertical sidebar containing several icons: a play button, a key, a checkmark, a gear, a folder, a magnifying glass, and a square. The main form area has a heading 'Package' with sub-sections for 'Protected Packages' and 'Public Packages'. Under 'Protected Packages', items listed include 'My Test C Package' and 'My Test Package'. Under 'Public Packages', items listed include '2048-android', 'acpi', and 'AeroCalc'. Each package entry has a small edit icon next to it. To the right of the package list, there are two dropdown menus: 'Select a version:' with 'Latest' selected and 'Select a platform to use:' with 'Latest' selected. Below these dropdowns is a large empty text area. At the bottom of the form are three small buttons: a yellow one on the left, a grey one in the middle, and a light blue one on the right.

4. Select an assessment Tool. The list of Tools is populated based upon the language of your Package. The search feature allows you to quickly find a desired Tool. You may also select a specific Tool version; the latest version is selected by default.

By default, All is selected, meaning all of the tools that are compatible with the language of your Package and for which you have permission to use. Only the latest version of each tool is allowed with the All tools option.

*****Note:** If you select a tool from a commercial vendor and do not yet have permission to use it, you will be prompted to apply for permission or select a different tool when you attempt to Save or Save and Run the Assessment.

The screenshot shows the SWAMP application's 'Run New Assessment' interface. On the left, there is a vertical toolbar with various icons. The main area has a title 'Run New Assessment' with a large play button icon. Below the title, there is a breadcrumb navigation: Home / Assessments / + Run New Assessment. A sub-instruction says 'To create a new assessment, please specify the following information:'. There are two main configuration sections: 'Package' and 'Tool'. In the 'Package' section, 'Select a package to assess:' is set to 'My Test Package' and 'Select a version:' is set to 'Latest'. In the 'Tool' section, 'Select a tool to use:' is set to 'All' (which is highlighted with a blue border), and 'Select a version:' is set to 'Latest'. A dropdown menu for 'All' is open, listing 'Public Tools': Clang Static Analyzer, cppcheck, GCC, and Parasoft C/C++test. A search bar is also visible in this dropdown. At the bottom right of the 'Tool' section is a 'Cancel' button.



5. Select an operating system Platform. Use the search bar to quickly find a desired Platform. You may select a specific Platform version; the latest version is selected by default.

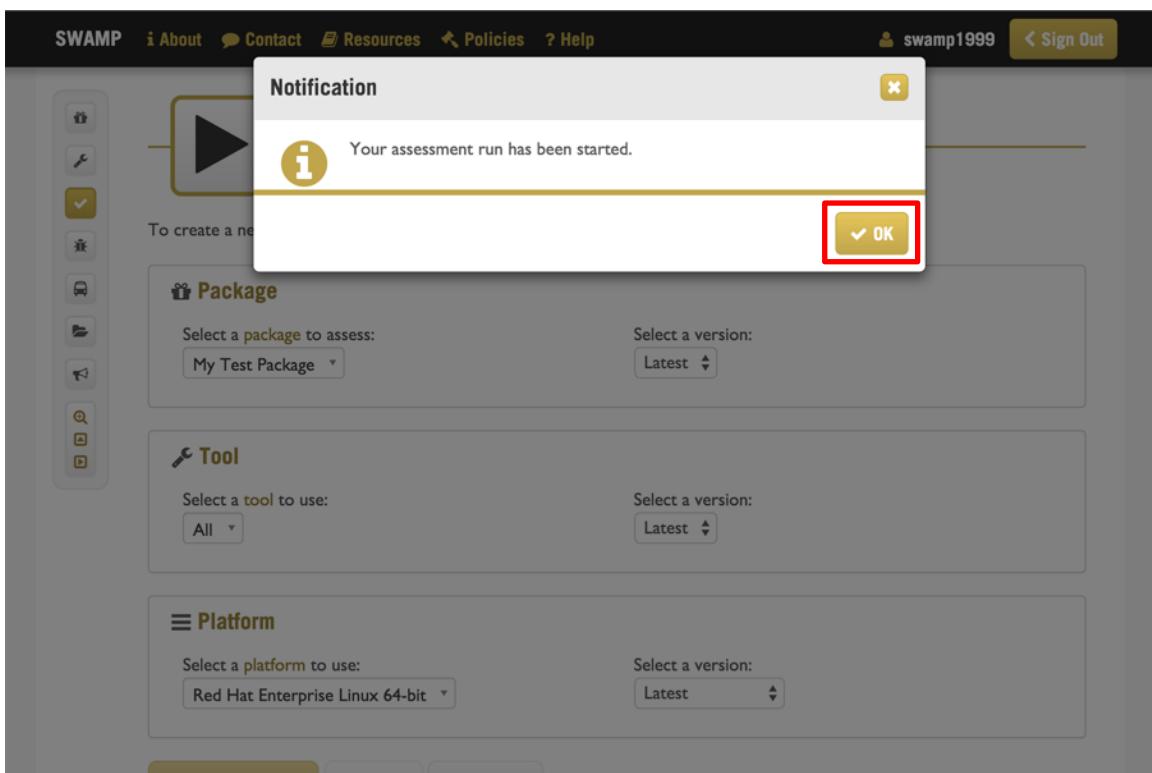
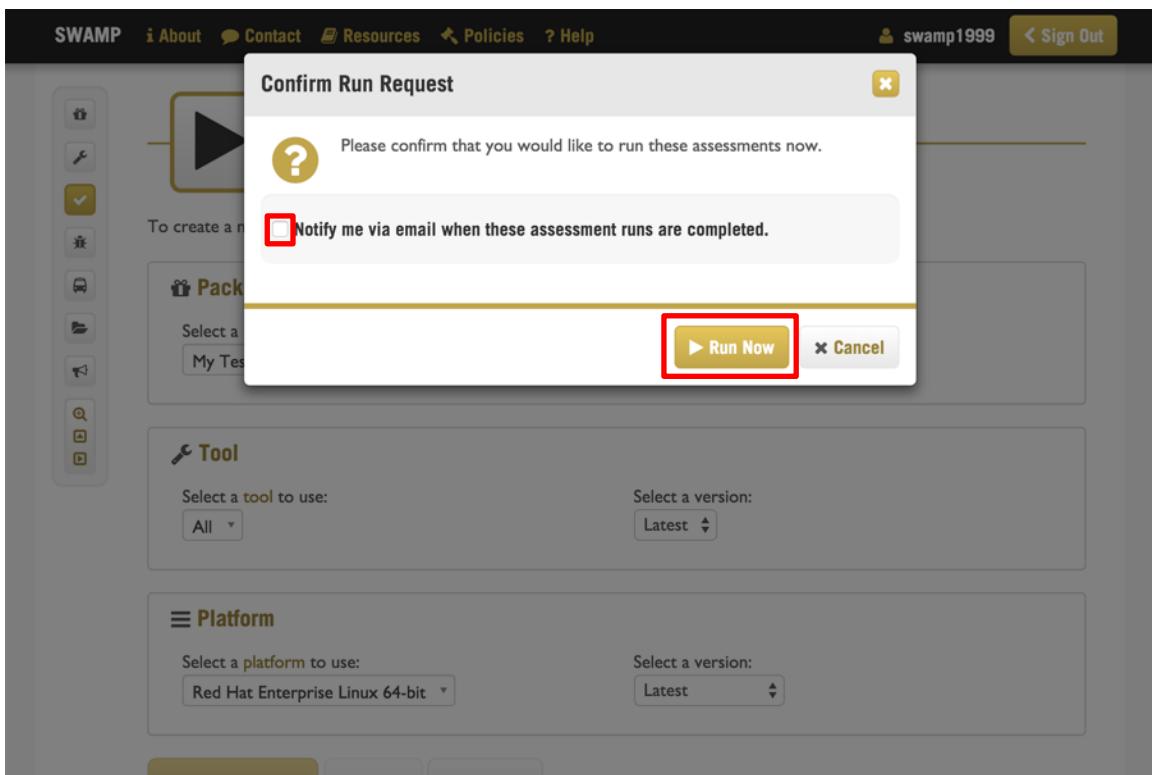
The presence of the Platform section and the list of Platforms is populated based upon the language of your Package. Platform selection is only available for C/C++ Packages. By default, Java Packages use Red Hat Enterprise Linux 64-bit, Python and Ruby Packages use Scientific Linux 64-bit, and Android Packages use Android on Ubuntu 64-bit.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. A 'Sign Out' button is also present. Below the navigation bar, the main title 'Run New Assessment' is displayed next to a large play button icon. The URL in the browser bar shows 'Home / Assessments / Run New Assessment'. A sub-instruction 'To create a new assessment, please specify the following information:' is followed by a 'Package' section. This section includes a dropdown for 'Select a package to assess:' containing 'My Test Package' and a dropdown for 'Select a version:' set to 'Latest'. A search bar is positioned above a list of 'Public Platforms'. The list includes: Android, Debian Linux, Fedora Linux, Red Hat Enterprise Linux 32-bit, and Red Hat Enterprise Linux 64-bit. Each platform entry has its own 'Select a version:' dropdown, both currently set to 'Latest'. At the bottom of the form are three buttons: 'Save and Run', 'Save', and 'Cancel'.

6. Select **Save** to save your Assessment and return to the **Assessments** page. The Package Filter will be set to the name of the Software Package which was just selected for Assessment.

Select **Save and Run** to save and immediately run your Assessment. Check the box if you would like to be notified via email once your Assessment completes. Select **Run Now** to run the Assessment, then select **OK**. You will then be taken to the **Results** page to view the Results of your Assessment.

The screenshot shows the SWAMP web interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. On the right of the navigation bar is a 'Sign Out' button. Below the navigation bar, the main content area has a title 'Run New Assessment' with a large play button icon. To the left of the main content is a vertical sidebar containing several icons. The main content area includes a breadcrumb trail: Home / Assessments / + Run New Assessment. A sub-instruction says 'To create a new assessment, please specify the following information:'. There are three sections: 'Package', 'Tool', and 'Platform', each with dropdown menus for selecting a package/tool/platform and choosing a version (set to 'Latest' in all cases). At the bottom of the form are three buttons: a large yellow '▶ Save and Run' button, a smaller 'Save' button, and a 'Cancel' button. The 'Save and Run' button is highlighted with a red rectangular border.



Running Assessments

From the Assessments page, you can easily run one or more Assessments that were previously created or saved.

1. Check the box next to the Assessment(s) you wish to run.

*****Note:** Shift+click will allow you to select a range of check boxes.

2. Select **Run Assessments** to start a one-time assessment run.

The screenshot shows the SWAMP Assessments page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out option. Below the navigation is a sidebar with various icons. The main area is titled "Assessments" with a large checkmark icon. It shows a breadcrumb trail: Home / Assessments. There are two buttons below the trail: "Results 184" and "Runs 0". A text block explains that assessments are triplets of package, tool, and platform identifiers. Below this is a filter bar with dropdowns for project, package, tool, platform, and items, along with a clear button. At the top right is a "Run New Assessment" button. The main content is a table with columns for Package, Tool, Platform, and Results. The first row has a checked checkbox in the Package column. The table includes checkboxes for Show numbering and Show grouping. At the bottom are three buttons: "Run Assessments" (highlighted with a red box), "Schedule Assessments", and "Delete Assessments".

	Package	Tool	Platform	Results
<input checked="" type="checkbox"/>	My Test Package latest	Parasoft C/C++test latest	Red Hat Enterprise Linux 64-bit latest	
<input type="checkbox"/>	My Test Package latest	GCC latest	Red Hat Enterprise Linux 64-bit latest	
<input type="checkbox"/>	My Test Package latest	cppcheck latest	Red Hat Enterprise Linux 64-bit latest	
<input type="checkbox"/>	My Test Package latest	Clang Static Analyzer latest	Red Hat Enterprise Linux 64-bit latest	

*****Note:** If you created several Assessments using different tools for a given Software Package (for example, using the All tools option described on page 129), you can easily view and select them all at once. Check the box to **Show grouping** to sort these related Assessments together.

In this view, checking the box next to the first Assessment in the group will also select all related Assessments below it, allowing you to easily Run Assessments using every tool selected for that Package at once. Notice that the related Assessments share the same background shading. Also, subsequent values in the table are left blank to indicate that they have the same value as the first row/Assessment in the group.

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

swamp1999 [Sign Out](#)

Assessments

Home / Assessments

Results 184 **Runs** 0

Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.

Filters

Run New Assessment

Package	Tool	Platform	Results
My Test Package latest	Parasoft C/C++test latest	Red Hat Enterprise Linux 64-bit latest	
	GCC latest		
	cppcheck latest		
	Clang Static Analyzer latest		

Show numbering Show grouping

Run Assessments **Schedule Assessments** **Delete Assessments**



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swamp1999 [Sign Out](#)

Assessments

Home / Assessments

Results 184 **Runs** 0

Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.

Filters

Run New Assessment

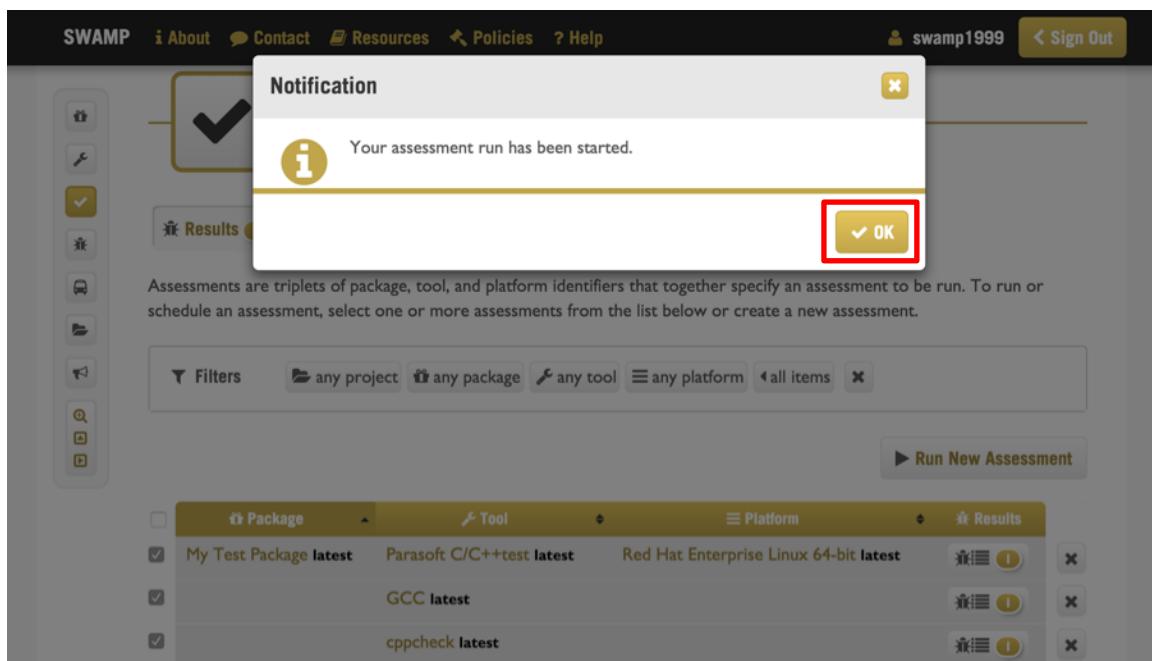
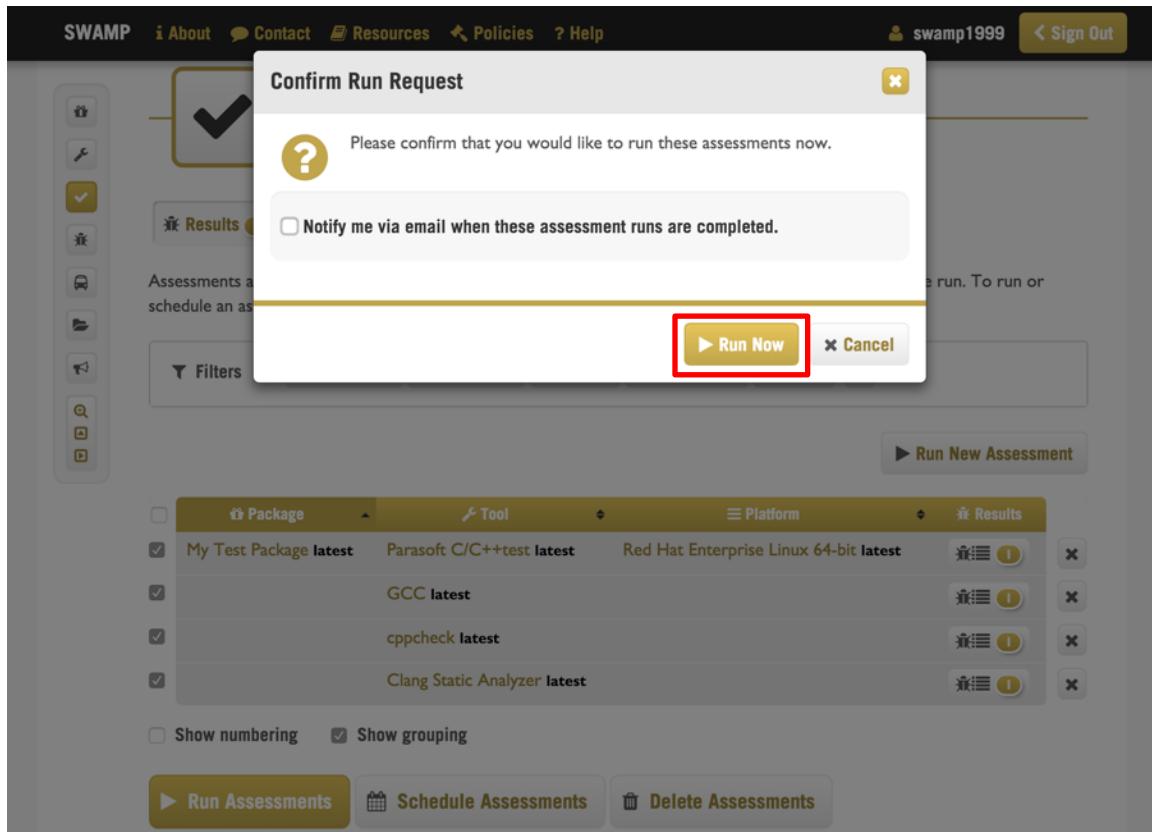
Package	Tool	Platform	Results
<input checked="" type="checkbox"/> My Test Package latest	Parasoft C/C++test latest	Red Hat Enterprise Linux 64-bit latest	
<input checked="" type="checkbox"/>	GCC latest		
<input checked="" type="checkbox"/>	cppcheck latest		
<input checked="" type="checkbox"/>	Clang Static Analyzer latest		

Show numbering Show grouping

Run Assessments **Schedule Assessments** **Delete Assessments**

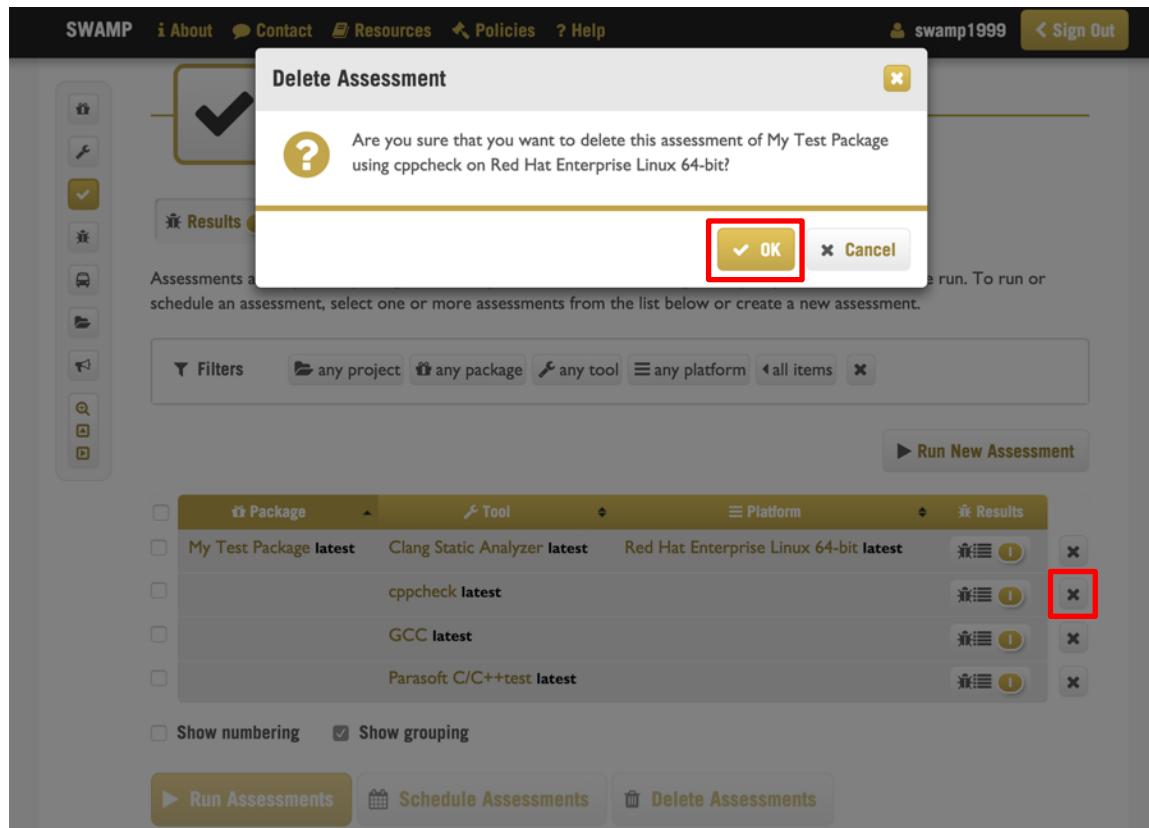


3. Check the box if you would like to be notified via email once your Assessment completes. Select **Run Now** to run the Assessment, then select **OK**. You will then be taken to the **Results** page to view the Results of your Assessment.



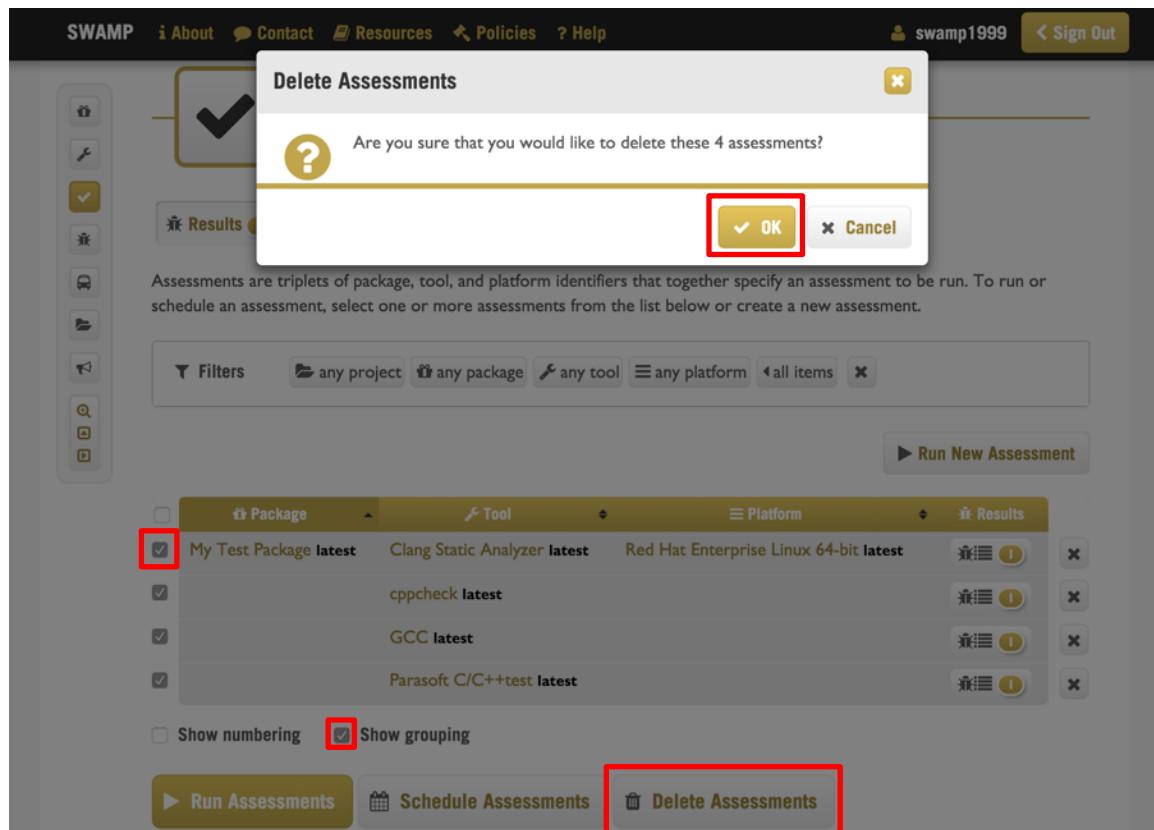
Deleting Assessments

You may delete Assessments that you have created. On the Assessments page, select the X to the right of an individual Assessment you wish to delete. Then select **OK**.



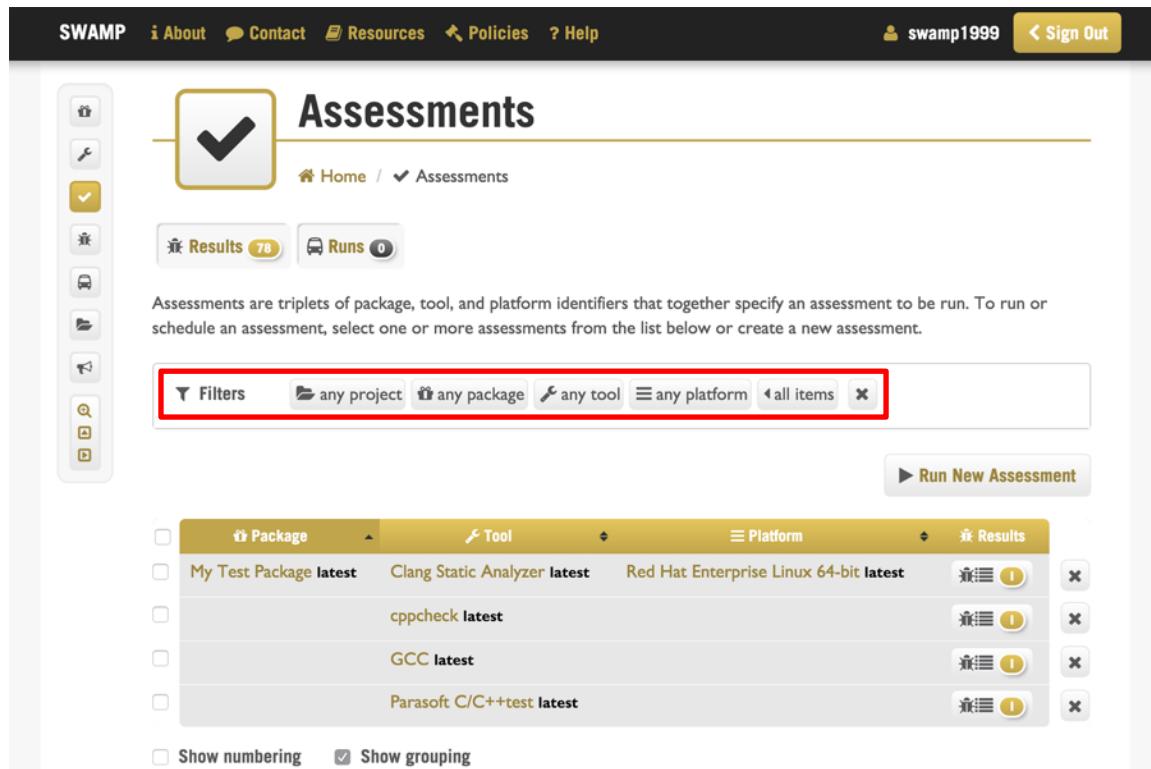
Alternatively, you can check the box next to one or more Assessments. Select **Delete Assessments**, and then select **OK**.

*****Note:** If **Show grouping** is enabled, checking the box next to the first Assessment in the group will also select all related Assessments below it, allowing you to easily delete all related Assessments for that Package at once.



Assessment Filters

As Assessments are saved, run, and scheduled, it may become difficult to quickly find the Assessments you wish to view. Filters on the Assessments page allow you to easily find an Assessment based upon its Project, Package, Tool, or Platform. You may choose more than one option. Each additional filter chosen will further restrict the set of returned Assessments.



The screenshot shows the SWAMP Assessments page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out button. Below the navigation bar, the main title "Assessments" is displayed next to a large checkmark icon. A breadcrumb trail shows "Home / Assessments". Below the title, there are two buttons: "Results 78" and "Runs 0". A descriptive text explains that Assessments are triplets of package, tool, and platform identifiers. A "Filters" button is highlighted with a red box. To the right of the filters are buttons for "any project", "any package", "any tool", "any platform", "all items", and a close button. Below the filters, a table lists four assessments with columns for Package, Tool, Platform, and Results. Each row has a delete button. At the bottom of the table are checkboxes for "Show numbering" and "Show grouping". A "Run New Assessment" button is located on the right side of the table.

Package	Tool	Platform	Results
My Test Package latest	Clang Static Analyzer latest	Red Hat Enterprise Linux 64-bit latest	
	cppcheck latest		
	GCC latest		
	Parasoft C/C++test latest		

Select the Project filter to find Assessments from Any, None, or a specific Project. In this case, None means your My Project.

The screenshot shows the SWAMP web interface with the 'Assessments' page selected. A sidebar on the left contains various icons. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out button. The main area has a title 'Assessments' with a checkmark icon. Below it, a breadcrumb trail shows Home / Assessments. There are two buttons: 'Results 103' and 'Runs 0'. A section titled 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' is present. Below this is a 'Filters' section with several buttons: 'any project' (which is highlighted with a red box), 'any package', 'any tool', 'any platform', 'all items', and a close button. A 'Project filter' dropdown is open, showing the following options:

- Name: Any
- Any
- None
- Projects I Own
- Test

Below the dropdown are buttons for 'Tool', 'Platform', and 'Results'. At the bottom right of the filters section is a 'Run New Assessment' button. The status bar at the bottom shows 'My Test Package latest', 'cppcheck latest', and 'Red Hat Enterprise Linux 64-bit latest'.

Select the Package filter to find Assessments for a specific Package.

This screenshot shows the same SWAMP interface as the previous one, but the 'Package filter' dropdown is now open. The 'any project' button in the filters section is also highlighted with a red box. The 'Package filter' dropdown shows:

- Name: Any
- Any
- Protected Packages
 - My Test C Package
 - My Test Package
- Public Packages
 - 2048-android
 - acpi

The rest of the interface elements are identical to the first screenshot, including the sidebar, navigation bar, and status bar.

Select the Tool filter to find Assessments using a specific Tool.

The screenshot shows the SWAMP web application's 'Assessments' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. Below the navigation bar, the main title 'Assessments' is displayed next to a checkmark icon. A sidebar on the left contains various icons for project management. The main content area has a heading 'Assessments' and a sub-heading 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' Below this, there is a 'Filters' section with four dropdown menus: 'any project', 'any package', 'any tool' (which is highlighted with a red box), and 'any platform'. Under the 'any tool' dropdown, a list of tools is shown, including 'Any', 'Public Tools' (Android lint, Bandit, Brakeman, checkstyle, Clang Static Analyzer), and a 'My Test' section which is currently selected. On the right side of the filters, there is a 'Run New Assessment' button. Below the filters, there is a 'Platform' section showing 'Red Hat Enterprise Linux 64-bit latest' and a 'Results' section showing '2' results. A 'Tool filter' sidebar on the left lists 'Name' (Any) and 'Public Tools' (Android lint, Bandit, Brakeman, checkstyle, Clang Static Analyzer). A 'Show num' checkbox is also present.

Select the Platform filter to find Assessments run on a specific Platform.

The screenshot shows the SWAMP web application's 'Assessments' page, similar to the previous one but with a different filter selected. The top navigation bar and sidebar are identical. The main title 'Assessments' is at the top. The 'any tool' filter is now highlighted with a red box. The 'any platform' filter is selected, and its dropdown menu is open, showing 'Any' and 'Public Platforms' (Android, Debian Linux, Fedora Linux, Red Hat Enterprise Linux 32-bit, Red Hat Enterprise Linux 64-bit). The 'My Test' section is still selected. The 'Run New Assessment' button is visible on the right. The 'Platform' and 'Results' sections are also present at the bottom.

Select the Limit filter to limit the number of Assessments displayed.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999' with a 'Sign Out' button. The main title 'Assessments' is centered above a search bar. To the left of the search bar is a sidebar containing various icons. Below the search bar, there are two buttons: 'Results 103' and 'Runs 0'. A descriptive text block states: 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' Below this text is a 'Filters' section with dropdown menus for Package, Tool, Platform, and Results, and a 'Limit filter' input field set to 'all items'. A red box highlights the 'all items' option in the filters. At the bottom of the page, there is a summary table with three rows: 'My Test Package latest', 'cppcheck latest', and 'Red Hat Enterprise Linux 64-bit latest'. There are also 'Edit' and 'Delete' buttons for each row. A 'Run New Assessment' button is located on the right side of the page.

Select “-” to minimize or close an open filter. Multiple filters may be open simultaneously. To reset the values for a single filter, open the filter, and select **Reset**. To reset the values for all filters, select the **X**. Select **OK** to confirm the reset.

The screenshot shows the SWAMP web application. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation is a title 'Assessments of My Test Package'. Underneath the title is a breadcrumb trail: Home / Assessments. There are two tabs: 'Results' (with a value of 2) and 'Runs' (with a value of 0). A main content area contains a heading 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' Below this is a 'Filters' section. It includes dropdowns for 'any project' (set to 'My Test Package'), 'any tool' (set to 'any tool'), 'any platform' (set to 'any platform'), and 'all items' (with an 'X' button). A 'Package filter' section has a 'Name' dropdown set to 'My Test Package' and a 'Version' dropdown set to 'Any'. A 'Reset' button is located at the bottom right of this section. Below the filters is a 'Run New Assessment' button. At the bottom, there's a toolbar with buttons for Package, Tool, Platform, and Results, and a list of selected assessments: 'My Test Package latest', 'cppcheck latest', and 'Red Hat Enterprise Linux 64-bit latest'.

This screenshot shows the same SWAMP interface as above, but with a modal dialog box titled 'Reset filters' overlaid. The dialog asks, 'Are you sure that you would like to reset your filters?' It has 'OK' and 'Cancel' buttons, with 'OK' being highlighted by a red box. The background of the main interface is dimmed.

Navigating Within Assessments

From the Assessments page, you can easily view Assessment Results and Scheduled Assessment Runs.

1. On the **Assessments** page, buttons located at the top of the page take you to the Results and Runs pages.

By default, no filters will be set when you arrive on the Results or Runs pages. If you set one or more of the Filters on the Assessments page, those filter settings will be preserved on the Results or Runs pages, narrowing the list of Results or Runs displayed.

Selecting the Results button in the Results column will take you to the Results page. On the Results page, the Project, Package, Tool, and Platform filters will be set so that only those Results for that Assessment “triplet” are shown.

The screenshot shows the SWAMP Assessments page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation bar is a sidebar with various icons. The main content area has a title 'Assessments' with a checkmark icon. A breadcrumb trail shows 'Home / Assessments'. Below the title are two buttons: 'Results 78' and 'Runs 0', with 'Results' being highlighted. A red box highlights the 'Filters' section below. The 'Filters' section contains dropdown menus for 'any project', 'any package', 'any tool', 'any platform', and 'all items', with 'any package' currently selected. Another red box highlights the 'Results' column in the main table. The table lists four assessments: 'My Test Package latest' (with tools Clang Static Analyzer and Red Hat Enterprise Linux 64-bit), 'cppcheck latest', 'GCC latest', and 'Parasoft C/C++test latest'. Each row has a delete icon ('X') and a red box highlighting the grouping icon (a grid with a number 1). At the bottom of the table are checkboxes for 'Show numbering' and 'Show grouping'.

Package	Tool	Platform	Results
My Test Package latest	Clang Static Analyzer latest	Red Hat Enterprise Linux 64-bit latest	1
cppcheck latest			1
GCC latest			1
Parasoft C/C++test latest			1

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out button for user 'swamp1999'. The main title is 'My Assessment Results of My Test Package using cppcheck on Red Hat Enterprise Linux 64-bit'. On the left, there is a sidebar with various icons. Below the title, a breadcrumb trail shows Home / Assessment Results. There are two tabs: 'Assessments' (selected) and 'Runs'. A note explains that assessment results contain the results of an assessment run of a package using a tool on a particular platform. The filters section is highlighted with a red box, showing 'no project', 'My Test Package', 'cppcheck', and 'Red Hat Enterprise Linux 64-bit', along with a date range from 'any date' and a '50 items' link. Below this, there are three viewing options: 'Viewer' (selected), 'Code Dx', and 'Native'. A 'View Assessment Results' button is present. The main content area displays a table of assessment results:

<input type="checkbox"/>	Package	Tool	Platform	Date / Time	Status	<input type="checkbox"/>
<input type="checkbox"/>	My Test Package 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	11-16 (2015) 12:19	finished 7	<input type="checkbox"/>
<input type="checkbox"/>	My Test Package 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	11-12 (2015) 16:20	finished 7	<input type="checkbox"/>

- To return to your Assessments page, you will need to use the back button within your browser to preserve any filters set on that page. Alternatively, you can use the Navigation Bar to return to the Assessments page with no filters set.

Scheduling Recurring Assessments

In addition to running an Assessment a single time, you may schedule Assessments to recur on a daily, weekly, or monthly basis.

- After you have defined an Assessment on the Assessments page, select None or a specific Project using the Project filter. In this case, None means your My Project. If you do not select a project, you will be prompted to do so.
- Check the box next to the Assessment(s) you would like to schedule.

*****Note:** If **Show grouping** is enabled, checking the box next to the first Assessment in the group will also select all related Assessments below it, allowing you to easily schedule all related Assessments for that Package at once.

3. Select **Schedule Assessments**.

The screenshot shows the 'My Assessments' page in the SWAMP interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out option. Below the navigation is a large title 'My Assessments' with a checkmark icon. Underneath the title, there are two buttons: 'Results' and 'Runs'. A message states: 'Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.' On the left side, there is a sidebar with various icons. In the center, there is a 'Filters' section with a dropdown set to 'no project' and a 'Project filter' sub-section where 'Name' is set to 'None'. Below the filters is a table listing four assessments. The first assessment, 'My Test Package latest', has its checkbox checked and is highlighted with a red box. The other three assessments have their checkboxes unchecked. At the bottom of the table are two checkboxes: 'Show numbering' and 'Show grouping'. Below the table are three buttons: 'Run Assessments', 'Schedule Assessments' (which is highlighted with a red box), and 'Delete Assessments'. There is also a 'Run New Assessment' button on the right.

Package	Tool	Platform	Results
<input checked="" type="checkbox"/> My Test Package latest	Clang Static Analyzer latest	Red Hat Enterprise Linux 64-bit latest	
<input type="checkbox"/> cppcheck latest			
<input type="checkbox"/> GCC latest			
<input type="checkbox"/> Parasoft C/C++test latest			

4. You will then be taken to the Schedule Assessment Runs page. Refer to Part 5 of this User Manual for more information about Scheduled Runs.

5. If you have already created a Scheduled Run, select an option to the left of the Schedule column, and check the box if you would like to be notified via email once your Assessment completes. Then select **Schedule Assessments**. You will then be taken to the Scheduled Runs page.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account labeled 'swamp1999'. On the right of the navigation bar is a 'Sign Out' button. Below the navigation bar, the main content area has a title 'Schedule Assessment Runs' with a bus icon. To the left of the title is a vertical sidebar containing several icons: a gift, a wrench, a checkmark, a bus, a folder, a magnifying glass, and a location pin. Below the title, a breadcrumb trail shows 'Home / Assessments / Schedule Assessment Runs'. A sub-instruction 'Select a schedule for when to execute your 4 assessment runs:' is displayed. On the right, there is a button '+ Add New Schedule'. The main content area contains a table with three rows:

Schedule	Description
<input checked="" type="radio"/> Daily 6pm	Daily assessment run at 6:00pm
<input type="radio"/> Mondays 9am	9am each Monday
<input type="radio"/> Fridays 5pm	5pm each Friday

Below the table is a checkbox labeled 'Notify me via email when these assessment runs are completed.' A red box highlights the 'Schedule Assessments' button at the bottom left of the page, which is also labeled with a plus sign. To its right is a 'Cancel' button.

6. If you would like to create a new schedule, select **Add New Schedule**.

The screenshot shows the 'Schedule Assessment Runs' page. On the left is a sidebar with icons for Home, Assessments, Schedules, Policies, Help, and Sign Out. The main area has a title 'Schedule Assessment Runs' with a bus icon. Below it is a breadcrumb trail: Home / Assessments / Schedule Assessment Runs. A message says 'Select a schedule for when to execute your 4 assessment runs:'. A red box highlights the 'Add New Schedule' button. A table lists three existing schedules:

Schedule	Description	X
Daily 6pm	Daily assessment run at 6:00pm	X
Mondays 9am	9am each Monday	X
Fridays 5pm	5pm each Friday	X

A checkbox 'Notify me via email when these assessment runs are completed.' is present. At the bottom are 'Schedule Assessments' and 'Cancel' buttons.

7. Give your schedule a meaningful name and description so that it is easy to select in the future. Select **Add Request**.

The screenshot shows the 'Add New Run Request Schedule' page. The sidebar and top navigation are identical to the previous page. The main area has a title 'Add New Run Request Schedule' with a plus sign icon. The breadcrumb trail is: Home / Scheduled Runs / Schedules / Add Schedule. It contains fields for 'Name *' (1st of the Month) and 'Description *' (Monthly on the 1st of the Month). A note says '*Fields are required'. Below is a 'Run Requests' section stating 'No run requests have been defined.' A red box highlights the 'Add Request' button. At the bottom are 'Save' and 'Cancel' buttons.

8. Create the desired schedule in the Run Requests section. The options are Daily at a given Time, Weekly on a given Day of the week at a given Time, or Monthly on a given Day of the month at a given Time.

Select **Add Request** to add multiple schedule items. Select the **X** next to the Time column to remove a schedule item. Then select **OK**.

When finished, select **Save**.

The screenshot shows the SWAMP software interface for adding a new run request schedule. The main title is "Add New Run Request Schedule". Below it, there are navigation links: Home, Scheduled Runs, Schedules, and Add Schedule. The "Name" field is set to "Ist of the Month" and the "Description" field is set to "Monthly on the 1st of the Month". In the "Run Requests" section, the "Type" is set to "Monthly", the "Day" is set to "1", and the "Time" is set to "12:00 AM". A red box highlights the "Add Request" button, and another red box highlights the "Save" button. A red "X" is also present in the Time column of the Run Requests table. At the bottom, there are "Save" and "Cancel" buttons.

9. You will then see the list of available schedules. Select the option to the left of the Schedule column to choose your newly created schedule, and check the box if you would like to be notified via email once your Assessment completes. Then select **Schedule Assessments**. You will then be taken to the Scheduled Runs page.

The screenshot shows the 'Schedule Assessment Runs' page. On the left is a sidebar with various icons. The main area has a title 'Schedule Assessment Runs' with a bus icon. Below it is a breadcrumb trail: Home / Assessments / Schedule Assessment Runs. A sub-instruction says 'Select a schedule for when to execute your 4 assessment runs:'. There is a button '+ Add New Schedule'. A table lists four scheduled runs:

Schedule	Description	X
Daily 6pm	Daily assessment run at 6:00pm	X
Mondays 9am	9am each Monday	X
Fridays 5pm	5pm each Friday	X
Ist of the Month	Monthly on the 1st of the Month	X

A checkbox 'Notify me via email when these assessment runs are completed.' is present. At the bottom are buttons '+ Schedule Assessments' (highlighted with a red box) and 'Cancel'.

Part 5: Runs

Scheduled Runs

A **Run** is a request to execute one or more Assessments either as soon as possible or at a scheduled time.

From the Scheduled Runs page, you can view scheduled Assessments and view, create, and modify existing schedules.

Adding New Scheduled Runs

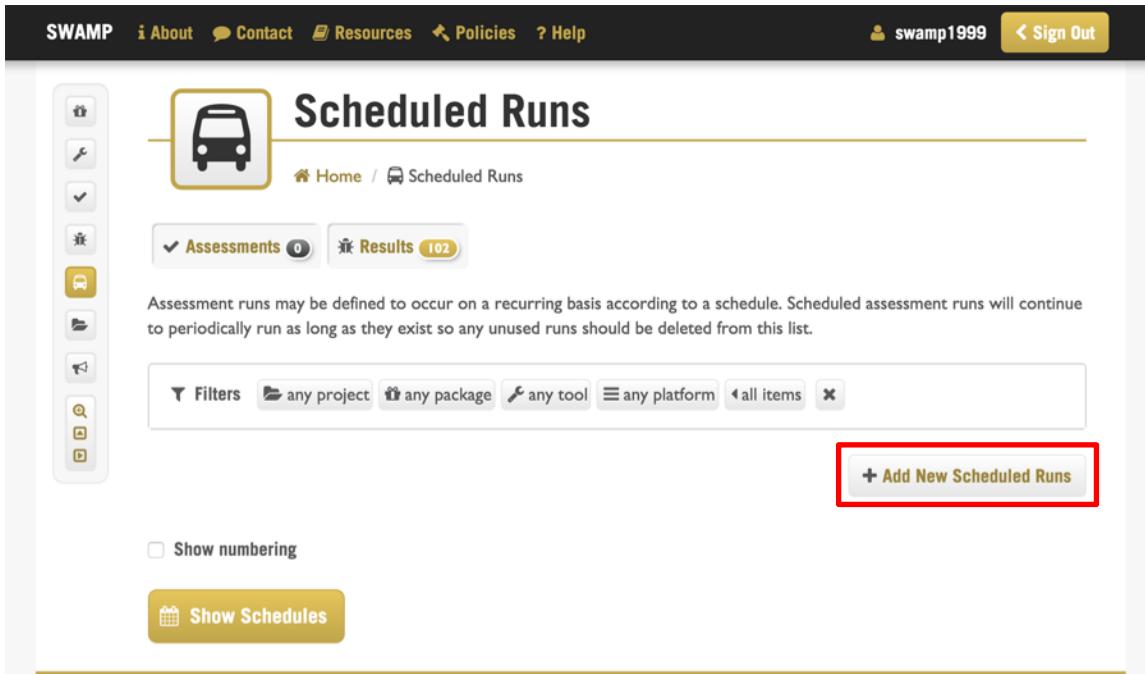
Creating a Scheduled Run requires an Assessment “triplet.” Refer to Part 4 of this User Manual for how to create an Assessment.

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Runs**.



The screenshot shows the SWAMP Software Assurance Marketplace home page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-in/out button for 'swamp1999'. Below the navigation is a message: 'You last signed in on 01-07 11:09 (2016)'. The main header features a 'CONTINUOUS ASSURANCE' gear icon and the word 'SWAMP' in large letters, with 'SOFTWARE ASSURANCE MARKETPLACE' below it. A tagline 'Do It Early. Do It Often.' is present. The page is divided into several sections: 'Packages' (upload code and manage packages), 'Tools' (manage software assessment tools), 'Assessments' (perform assessments on packages using code analysis tools), 'Results' (view status and results of completed assessments, showing 155 items), 'Runs' (view assessments scheduled to run at regular intervals, highlighted with a red box), 'Projects' (create projects to share results with other users), and 'Events' (view events associated with projects and account, showing 7 items). Each section has a small icon and a count in a yellow circle.

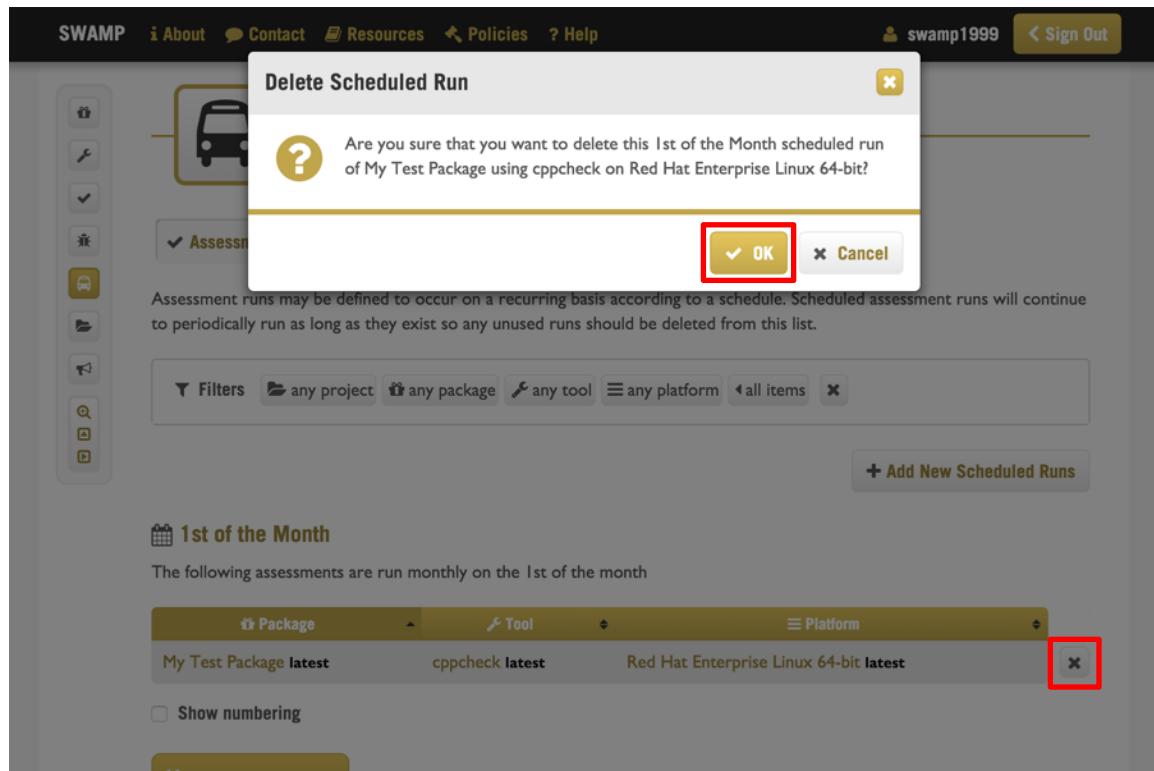
2. Select **Add New Scheduled Runs**. You will be taken to the Assessments page. Refer to Part 4 of this User Manual for how to create or select an Assessment.



The screenshot shows the 'Scheduled Runs' page. The top navigation bar is identical to the home page. The main title is 'Scheduled Runs' with a bus icon. Below the title, there are links for 'Home' and 'Scheduled Runs'. There are two tabs: 'Assessments' (0) and 'Results' (102). A descriptive text states: 'Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.' Below this is a filter bar with options like 'any project', 'any package', 'any tool', 'any platform', 'all items', and a clear button. A prominent red box highlights the '+ Add New Scheduled Runs' button. At the bottom left, there are checkboxes for 'Show numbering' and 'Show Schedules'.

Deleting a Scheduled Run

From the Scheduled Runs page, you can delete Scheduled Assessment Runs. Select the **X** next to the Platform column. Then select **OK**.



Schedules

Schedules are templates that define when and how often an Assessment should Run.

From the Scheduled Runs page, select **Show Schedules** to go to the All Run Request Schedules page. This page allows you to view all schedules. You can also easily add, edit, or delete schedules.

The following assessments are run monthly on the 1st of the month

Package	Tool	Platform
My Test Package latest	cppcheck latest	Red Hat Enterprise Linux 64-bit latest

Show numbering

Show Schedules

Adding a Schedule

1. On the All Run Request Schedules page, select **Add New Schedule** to create a new schedule.

The screenshot shows the 'All Run Request Schedules' page in the SWAMP application. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation bar, the main title 'All Run Request Schedules' is displayed next to a calendar icon. Underneath the title, there is a breadcrumb trail: Home / All Scheduled Runs / All Schedules. A sidebar on the left contains various icons for different features. In the center, there is a search/filter bar with dropdown menus for 'Filters' (set to 'any project') and 'all items', and a clear button ('X'). To the right of the search bar is a large red rectangular box highlighting the '+ Add New Schedule' button, which is located above a table. The table has two columns: 'Schedule' and 'Description'. It lists four existing schedules: 'Daily 6pm' (description: 'Daily assessment run at 6:00pm'), 'Mondays 9am' (description: '9am each Monday'), 'Fridays 5pm' (description: '5pm each Friday'), and '1st of the Month' (description: 'Monthly on the 1st of the Month'). Each row in the table has a delete icon ('X') to its right. Below the table, there is a checkbox labeled 'Show numbering' and a 'Cancel' button.

Schedule	Description
Daily 6pm	Daily assessment run at 6:00pm
Mondays 9am	9am each Monday
Fridays 5pm	5pm each Friday
1st of the Month	Monthly on the 1st of the Month

2. Give your schedule a meaningful name and description so that it is easy to select in the future. Select **Add Request**.

Create the desired schedule in the Run Requests section. The options are Daily at a given Time, Weekly on a given Day of the week at a given Time, or Monthly on a given Day of the month at a given Time.

Select **Add Request** to add multiple schedule items. Select the **X** next to the Time column to remove a schedule item. Then select **OK**.

When finished, select **Save**.

The screenshot shows the SWAMP software interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, User: swamp1999, Sign Out.
- Title:** Add New Run Request Schedule.
- Breadcrumbs:** Home / Scheduled Runs / Schedules / Add Schedule.
- Form Fields:**
 - Name *: Tues/Thurs
 - Description *: Tuesdays and Thursdays at 8am
- Note:** *Fields are required.
- Run Requests Section:** A table with columns Type, Day, and Time.

Type	Day	Time
Weekly	Tuesday	08:00 AM
Weekly	Thursday	08:00 AM

The "X" button in the Time column of the second row is highlighted with a red box.
- Buttons:** + Add Request (highlighted with a red box), Save, Cancel.

Editing a Schedule

1. On the All Run Request Schedules page, you can edit an existing schedule by selecting the name of a schedule in the Schedule column.

The screenshot shows the 'All Run Request Schedules' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation is a sidebar with various icons. The main area has a title 'All Run Request Schedules' and a breadcrumb trail: Home / All Scheduled Runs / All Schedules. A search bar with filters (any project, all items) and a 'Filters' dropdown is present. A large button '+ Add New Schedule' is on the right. The main content is a table with columns 'Schedule' and 'Description'. The first row, 'Daily 6pm', is highlighted with a red box. Other rows include 'Mondays 9am', 'Fridays 5pm', and '1st of the Month'. Each row has a delete icon ('x') to its right. Below the table is a checkbox 'Show numbering' and a 'Cancel' button.

Schedule	Description
Daily 6pm	Daily assessment run at 6:00pm
Mondays 9am	9am each Monday
Fridays 5pm	5pm each Friday
1st of the Month	Monthly on the 1st of the Month

2. Select Edit Schedule.

The screenshot shows the 'Daily 6pm Run Request Schedule' edit page. The top navigation and sidebar are identical to the previous screen. The main content includes a title 'Daily 6pm Run Request Schedule' and a breadcrumb trail: Home / Scheduled Runs / Schedules / Daily 6pm Schedule. Below this is a table with 'Name' (Daily 6pm) and 'Description' (Daily assessment run at 6:00pm). A section titled 'Run Requests' shows a table with 'Type' (Daily), 'Day' (not specified), and 'Time' (6:00 PM). At the bottom are two buttons: 'OK' and 'Edit Schedule', with 'Edit Schedule' highlighted with a red box.

3. Modify the schedule, and select **Save**.

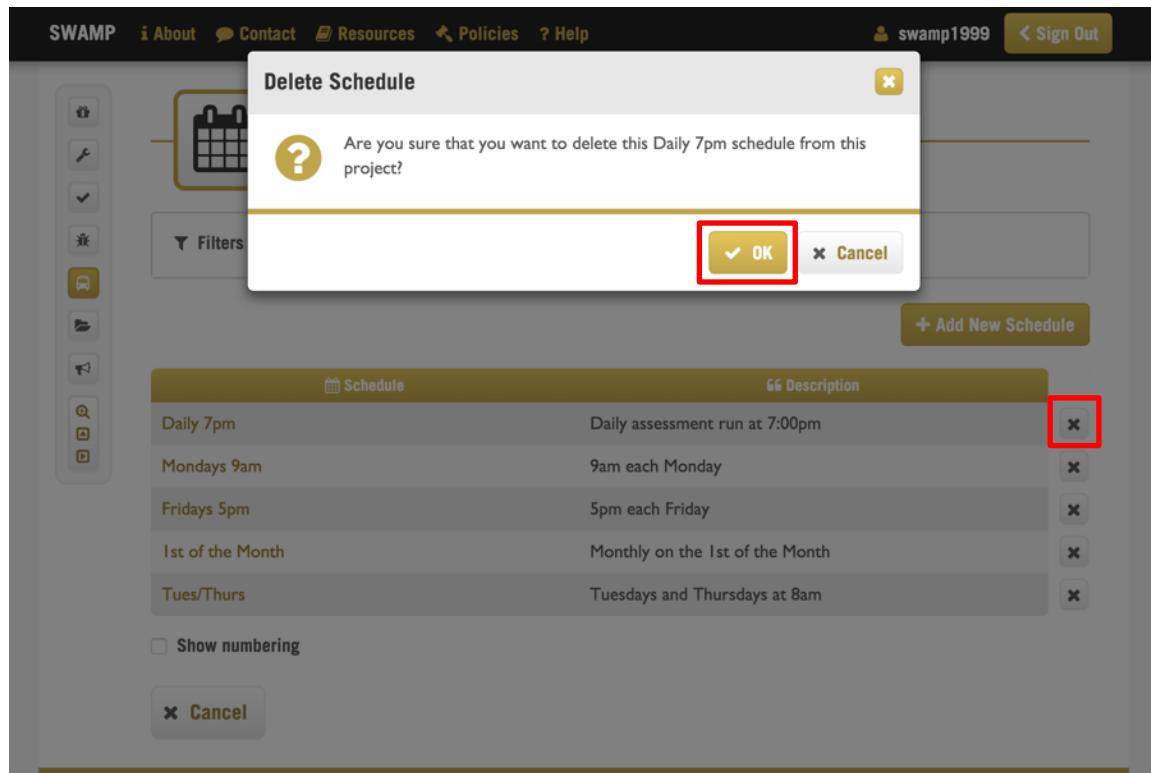
The screenshot shows the 'Edit Daily 6pm Run Request Schedule' page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation is a toolbar with various icons. The main area has a title 'Edit Daily 6pm Run Request Schedule' with a pencil icon. Below the title is a breadcrumb trail: Home / Scheduled Runs / Schedules / Daily 6pm Schedule / Edit Schedule. There are two input fields: 'Name *' containing 'Daily 6pm' and 'Description *' containing 'Daily assessment run at 6:00pm'. A note says '*Fields are required'. Under 'Run Requests', there's a table with columns for Type (set to Daily), Day, and Time (set to 06:00 PM). At the bottom are buttons for '+ Add Request', 'Save' (highlighted with a red box), and 'Cancel'.

Alternatively, you can edit a schedule directly from the Scheduled Runs page. Select the name of a schedule to open the editing screen.

The screenshot shows the 'Scheduled Runs' page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation is a toolbar with various icons. The main area has a title 'Scheduled Runs' with a bus icon. Below the title is a breadcrumb trail: Home / Scheduled Runs. There are two buttons: 'Assessments 1' and 'Results 102'. A note says: 'Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.' Below this is a filter bar with options for project, package, tool, platform, and items. At the bottom right is a button '+ Add New Scheduled Runs'. In the center, there's a section for '1st of the Month' with a calendar icon. Below it, a note says: 'The following assessments are run monthly on the 1st of the month'. There's a table with columns for Package (My Test Package latest), Tool (cppcheck latest), and Platform (Red Hat Enterprise Linux 64-bit latest). Below the table are checkboxes for 'Show numbering' and 'Show Schedules'.

Deleting a Schedule

On the All Run Request Schedules page, you can delete a schedule by selecting the X next to the Description column. Then select **OK**.



Run and Schedule Filters

Run Filters

Filters on the Scheduled Runs page allow you to easily find a Run based upon its Project, Package, Tool, or Platform. You may choose more than one option. Each additional filter chosen will further restrict the set of returned Runs.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Scheduled Runs

 Home / Scheduled Runs

[Assessments 1](#) [Results 102](#)

Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.

Filters [any project](#) [any package](#) [any tool](#) [any platform](#) [all items](#) [X](#)

[+ Add New Scheduled Runs](#)

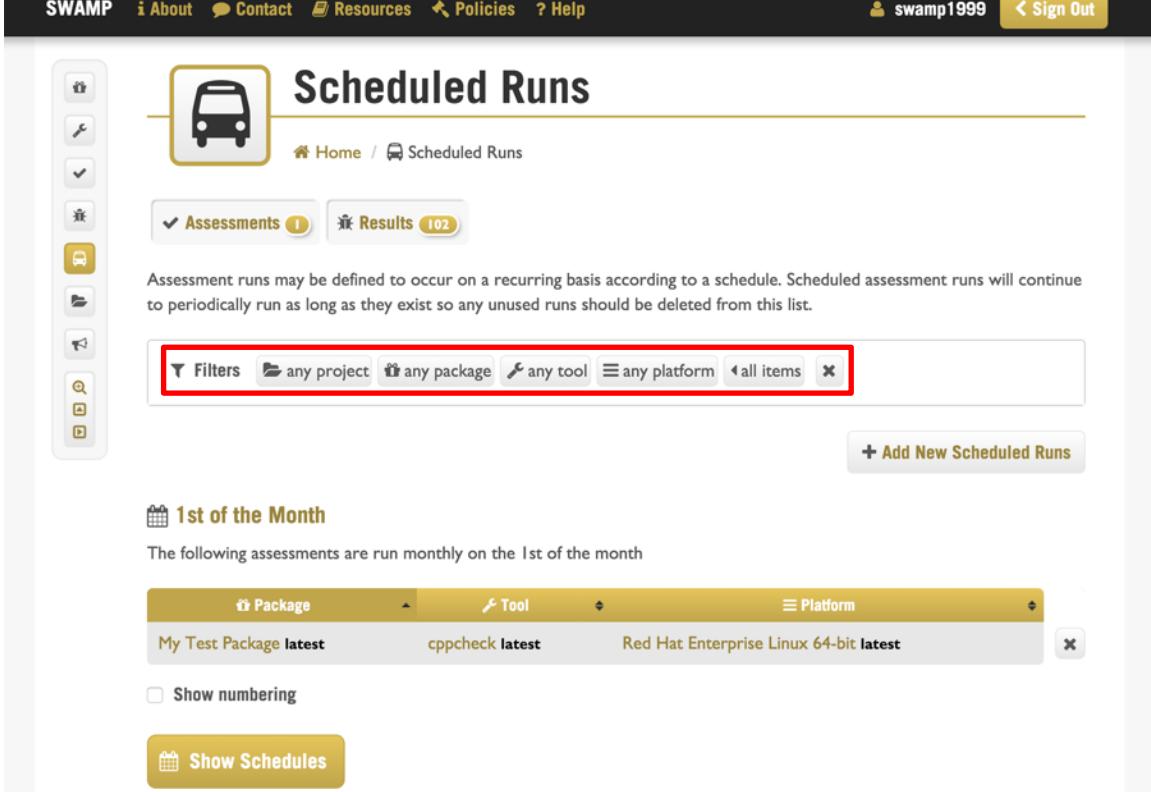
1st of the Month

The following assessments are run monthly on the 1st of the month

Package	Tool	Platform
My Test Package latest	cppcheck latest	Red Hat Enterprise Linux 64-bit latest

Show numbering

[Show Schedules](#)



Select the Project filter to find Runs from Any, None, or a specific Project. In this case, None means your My Project.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [swamp1999](#) [Sign Out](#)

Scheduled Runs

 Home / Scheduled Runs

[Assessments 2](#) [Results 102](#)

Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.

Filters [any project](#) [any package](#) [any tool](#) [any platform](#) [all items](#) [X](#)

Project filter

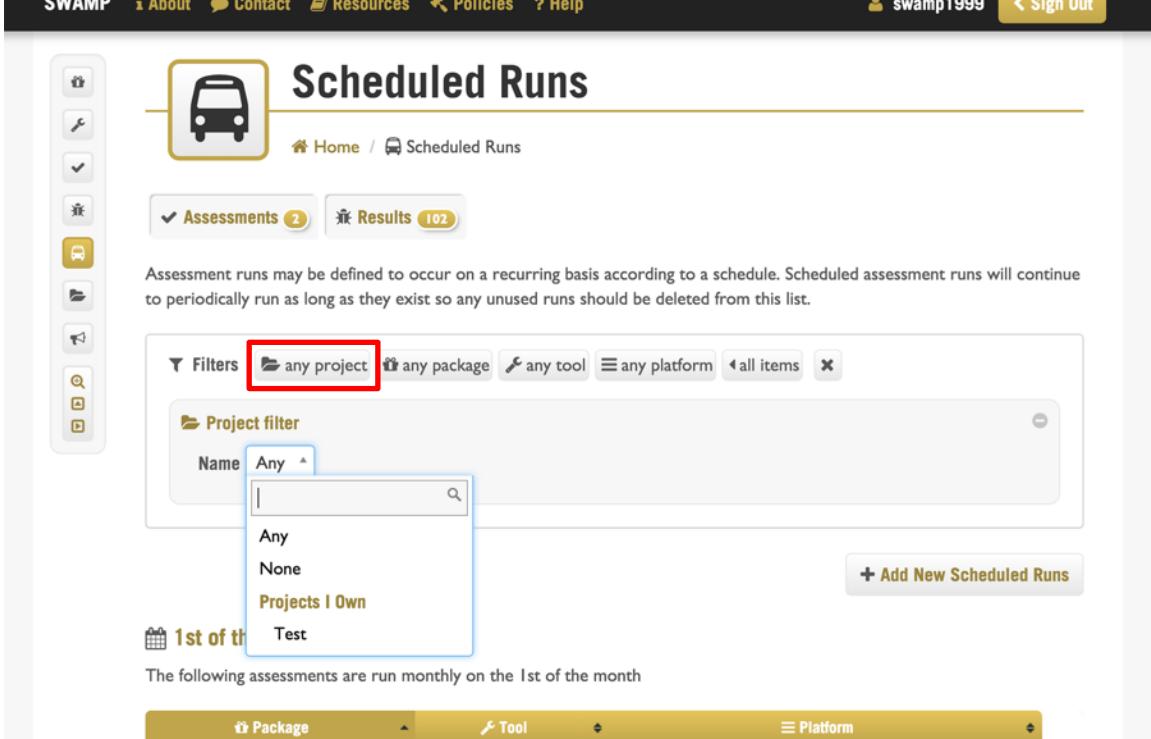
Name
Any
None
Projects I Own
Test

[+ Add New Scheduled Runs](#)

1st of the Month

The following assessments are run monthly on the 1st of the month

Package	Tool	Platform
---------	------	----------



Select the Package filter to find Runs for a specific Package.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out option. The main title is "Scheduled Runs" with a bus icon. Below the title, there are links for Home and Scheduled Runs. A sidebar on the left contains various icons for project management. The main content area displays a message about scheduled runs and a filter bar with several options: "any project", "any package" (which is highlighted with a red box), "any tool", "any platform", and "all items". Below the filter bar is a section titled "Package filter" with a dropdown menu set to "Any". This dropdown shows a list of packages: "Protected Packages" (My Test C Package, My Test Package) and "Public Packages" (2048-android, acpi). A button labeled "+ Add New Scheduled Runs" is visible. On the right side of the screen, there is a "Platform" dropdown menu.

Select the Tool filter to find Runs using a specific Tool.

This screenshot shows the same SWAMP interface as the previous one, but with the "any tool" filter selected (highlighted with a red box). The main content area displays a message about scheduled runs and a filter bar with the "any tool" option selected. Below the filter bar is a section titled "Tool filter" with a dropdown menu set to "Any". This dropdown shows a list of tools: "Public Tools" (Android lint, Bandit, Brakeman, checkstyle, Clang Static Analyzer). A button labeled "+ Add New Scheduled Runs" is visible. On the right side of the screen, there is a "Tool" dropdown menu.

Select the Platform filter to find Runs on a specific Platform.

The screenshot shows the SWAMP application's 'Scheduled Runs' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in/out option. Below the navigation bar, the title 'Scheduled Runs' is displayed next to a bus icon. Underneath the title, there are two tabs: 'Assessments' (2) and 'Results' (102). A descriptive text block states: 'Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.' Below this text is a 'Filters' section with several buttons: 'any project', 'any package', 'any tool', and a red-highlighted 'any platform' button. A dropdown menu titled 'Platform filter' is open, showing a list of platforms under the heading 'Public Platforms': Android, Debian Linux, Fedora Linux, Red Hat Enterprise Linux 32-bit, and Red Hat Enterprise Linux 64-bit. A 'Add New Scheduled Runs' button is located to the right of the dropdown. At the bottom of the page, there is a section titled '1st of the Month' with a note: 'The following assessments are run monthly on the 1st of the month'.

Select the Limit filter to limit the number of Runs displayed.

This screenshot shows the same 'Scheduled Runs' page as the previous one, but with a different filter selected. The 'any platform' button in the top navigation bar is now highlighted with a red box. In the main content area, the 'Limit filter' section is visible, featuring a 'Maximum # of results to display' input field. The rest of the page structure, including the navigation bar, title, and '1st of the Month' section, remains the same as in the first screenshot.

Select “-” to minimize or close an open filter. Multiple filters may be open simultaneously. To reset the values for a single filter, open the filter, and select **Reset**. To reset the values for all filters, select the **X**. Select **OK** to confirm the reset.

The screenshot shows the 'Project Test Scheduled Runs' page. On the left is a sidebar with various icons. The main area has a title 'Project Test Scheduled Runs' with a bus icon. Below it are links for 'Assessments' (1) and 'Results' (2). A message states: 'Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.' A 'Filters' section is shown with a dropdown set to 'Test'. Buttons for 'any package', 'any tool', 'any platform', and 'all items' are available, with 'all items' having a red box around its 'x' button. A 'Project filter' section contains a 'Name' dropdown set to 'Test'. A 'Delete' icon (red box) and a 'Reset' button (red box) are also present. A large red box highlights the 'x' button at the top right of the filters. A 'Daily 8am' section shows a schedule entry: 'The following assessments are run daily 8am schedule in test project'.

The screenshot shows a 'Reset filters' dialog box with a question mark icon and the text 'Are you sure that you would like to reset your filters?'. It includes 'OK' and 'Cancel' buttons, with 'OK' having a red box around it. The background shows the 'Project Test Scheduled Runs' page with a different set of filters applied: 'Package' dropdown set to 'My Test Package latest', 'Tool' dropdown set to 'Clang Static Analyzer latest', and 'Platform' dropdown set to 'Red Hat Enterprise Linux 64-bit latest'. A 'Show numbering' checkbox is also visible. A large red box highlights the 'OK' button in the dialog.

Schedule Filters

Filters on the All Run Request Schedules page allow you to easily find a Schedule based upon its Project.

The screenshot shows the 'All Run Request Schedules' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user account (swamp1999). Below the navigation is a sidebar with various icons. The main title 'All Run Request Schedules' is displayed above a breadcrumb trail: Home / All Scheduled Runs / All Schedules. A 'Filters' section is highlighted with a red box, containing 'any project' and 'all items' buttons. To the right is a '+ Add New Schedule' button. The main content area displays a table of scheduled runs:

Schedule	Description
Daily 6pm	Daily assessment run at 6:00pm
Mondays 9am	9am each Monday
Fridays 5pm	5pm each Friday
1st of the Month	Monthly on the 1st of the Month

Below the table are two buttons: 'Show numbering' (unchecked) and 'Cancel'.

Select the Project filter to find Schedules from Any, None, or a specific Project. In this case, None means your My Project.

The screenshot shows the 'All Run Request Schedules' page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out button. Below the navigation bar, the title 'All Run Request Schedules' is displayed next to a calendar icon. A sidebar on the left contains various icons for file operations like upload, download, and search. The main content area shows a table of scheduled runs. At the top of this table, there is a 'Filters' section with a dropdown menu labeled 'Project filter'. The dropdown menu is open, showing options: 'Any' (selected), 'None', and 'Projects I Own'. A sub-menu for 'Projects I Own' is also open, showing 'Test'. A red box highlights the 'any project' button in the filters section. To the right of the filters, there is a '+ Add New Schedule' button. The table below has columns for 'Schedule' and 'Description'. The data in the table is as follows:

Schedule	Description
Daily 7pm	Daily assessment run at 7:00pm
Mondays 9am	9am each Monday
Fridays 5pm	5pm each Friday
1st of the Month	Monthly on the 1st of the Month
Tues/Thurs	Tuesdays and Thursdays at 8am
Daily 8am	Daily 8am schedule in Test Project

Select the Limit filter to limit the number of Schedules displayed.

The screenshot shows the same 'All Run Request Schedules' page as the previous one, but with a different filter configuration. The 'Filters' section now includes a 'Limit filter' dropdown with a 'Maximum # of results to display' input field. A red box highlights the 'all items' button in the filters section. The rest of the interface and data table are identical to the first screenshot.

Schedule	Description
Daily 7pm	Daily assessment run at 7:00pm
Mondays 9am	9am each Monday
Fridays 5pm	5pm each Friday
1st of the Month	Monthly on the 1st of the Month
Tues/Thurs	Tuesdays and Thursdays at 8am

Navigating Within Runs

On the **Scheduled Runs** page, buttons located at the top of the page take you to the Assessments and Results pages.

By default, no filters will be set when you arrive on the Assessments or Results pages.

The screenshot shows the SWAMP interface with the following details:

- Top Navigation Bar:** Includes links for About, Contact, Resources, Policies, Help, and a user account labeled "swamp1999".
- Scheduled Runs Page Header:** Features a bus icon and the title "Scheduled Runs". Below it is a breadcrumb trail: Home / Scheduled Runs.
- Navigation Buttons:** Two buttons are highlighted with a red box: "Assessments" (with a count of 2) and "Results" (with a count of 102).
- Filter Bar:** A red box highlights the "Filters" section, which includes dropdowns for "Package" (set to "My Test Package latest"), "Tool" (set to "cppcheck latest"), and "Platform" (set to "Red Hat Enterprise Linux 64-bit latest").
- Content Area:** Displays two sections:
 - 1st of the Month:** Describes monthly assessments run on the 1st of the month.
 - Daily 8am:** Describes daily assessments run at 8am.
- Buttons:** A "Add New Scheduled Runs" button is located in the bottom right corner.

If you set one or more of the Filters on the Scheduled Runs page, those filter settings will be preserved on the Assessments or Results pages, narrowing the list of Assessments or Results displayed.

For example, if you select “Test” in the Project filter on the Scheduled Runs page and select the Assessments button, the Project filter will also be set to “Test” on the Assessments page.

The image consists of two vertically stacked screenshots of the SWAMP web application interface.

Screenshot 1: Project Test Scheduled Runs

- Header:** SWAMP | About | Contact | Resources | Policies | Help | swamp1999 | Sign Out
- Left Sidebar:** Icons for Home, Contact, Resources, Policies, Help, User Profile, and Sign Out. The "Assessments" icon (a bus) is highlighted with a red box.
- Title:** Project Test Scheduled Runs
- Breadcrumbs:** Home / Test Scheduled Runs
- Buttons:** ✓ Assessments (1), Results (97)
- Text:** Assessment runs may be defined to occur on a recurring basis according to a schedule. Scheduled assessment runs will continue to periodically run as long as they exist so any unused runs should be deleted from this list.
- Filters:** ▾ Filters, Test, any package, any tool, any platform, all items, X
- Buttons:** + Add New Scheduled Runs
- Section:** Daily 8am
- Description:** The following assessments are run daily 8am schedule in test project
- Filter Bar:** Package (My Test Package latest), Tool (Clang Static Analyzer latest), Platform (Red Hat Enterprise Linux 64-bit latest)
- Checklist:** Show numbering

Screenshot 2: Project Test Assessments

- Header:** SWAMP | About | Contact | Resources | Policies | Help | swamp1999 | Sign Out
- Left Sidebar:** Icons for Home, Contact, Resources, Policies, Help, User Profile, and Sign Out. The "Assessments" icon (a checkmark) is highlighted with a red box.
- Title:** Project Test Assessments
- Breadcrumbs:** Home / Test Assessments
- Buttons:** Results (97), Runs (1)
- Text:** Assessments are triplets of package, tool, and platform identifiers that together specify an assessment to be run. To run or schedule an assessment, select one or more assessments from the list below or create a new assessment.
- Filters:** ▾ Filters, Test, any package, any tool, any platform, all items, X
- Buttons:** ► Run New Assessment
- Filter Bar:** Package (My Test Package latest), Tool (Clang Static Analyzer latest), Platform (Red Hat Enterprise Linux 64-bit latest), Results (0)
- Checklist:** Show numbering
- Buttons:** ► Run Assessments, Schedule Assessments, Delete Assessments

To return to your Scheduled Runs page, you will need to use the back button within your browser to preserve any filters set on that page. Alternatively, you can use the Navigation Bar to return to the Scheduled Runs page with no filters set.

Part 6: Results

Assessment Results

After an Assessment is run in the SWAMP, the results of the assessment Tool on the chosen Software Package and Platform are available on the Assessment Results page.

1. Sign in to your SWAMP account to get to your **Home** screen, and select **Results**.

The screenshot shows the SWAMP Home screen. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user profile for 'swamp1999' with a 'Sign Out' button. Below the navigation bar, a message says 'You last signed in on 01-07 11:09 (2016)'. The SWAMP logo, featuring a gear with 'CONTINUOUS ASSURANCE' and a checkmark, is prominently displayed next to the text 'SWAMP SOFTWARE ASSURANCE MARKETPLACE'. A tagline 'Do It Early. Do It Often.' is visible. Below the logo, there are several cards representing different features:

- Packages**: Upload your code and manage your software packages. (Icon: gift)
- Tools**: Manage your software assessment tools. (Icon: wrench)
- Assessments**: Perform assessments on packages using code analysis tools. (Icon: checkmark)
- Results**: View the status and results of completed assessments. (Icon: bug, highlighted with a red border, and has a badge showing 155)
- Runs**: View assessments scheduled to run at regular intervals. (Icon: bus)
- Projects**: Create projects to share results with other users. (Icon: folder)
- Events**: View events associated with your projects & account. (Icon: megaphone, has a badge showing 7)

- The **Assessment Results** page displays a list of all of your currently running and completed Assessment Runs.

By default, the list is organized by most recent activity and the Limit filter is set to display 50 results. You may apply different filters or click a column header on the results table to sort the results differently.

The screenshot shows the SWAMP Assessment Results page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in link. Below the navigation is a sidebar with various icons. The main area has a title 'Assessment Results' with a bug icon. Below the title, it says 'Home / Assessment Results'. There are two tabs: 'Assessments' (selected) and 'Runs'. A text block explains that assessment results contain the results of an assessment run of a package using a tool on a particular platform. It allows viewing the results of a single assessment run or comparing multiple runs across different tools and platforms. A 'Filters' section at the top right of the results table includes dropdowns for project, package, tool, platform, date/time, and status, with a limit of 50 items. Below the filters are three viewer options: 'Viewer' (selected), 'Code Dx', and 'Native'. Underneath these are buttons for 'Auto refresh' and 'View Assessment Results'. The main content is a table of assessment runs:

	Package	Tool	Platform	Date / Time	Status
<input type="checkbox"/>	My Test Package 1.0	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/03/2016 09:54	finished (4)
<input type="checkbox"/>		cppcheck 1.72			finished (1)

Assessment Run Status

While running, Assessments in the SWAMP may proceed through any number of the following states, viewable in the Status column on the Results page:

- Scheduled:** The Scheduled state happens after you create a Run for the Assessment.
- Enqueued:** The system begins to process a Scheduled Run.
- Running:** The Assessment has begun processing.
- Submitted to HTCondor:** The Assessment job has been submitted to HTCondor for execution.
- Starting virtual machine:** The system is setting up the environment for the Assessment.
- Performing assessment:** The Assessment is being executed.
- Post-Processing:** The Assessment has finished and results are being processed.
- Saving Results:** The Results are being saved.
- Finished:** The scheduled Run has completed successfully, and Assessment Results are available.

10. **Finished with errors:** Your build has failed due to an incorrect Build System and/or incompatibilities between the Software Package and the selected Platform.
11. **Unable to run, queued or Unable to start VM:** There are incompatibilities between the chosen Platform and Software Package.
12. **Invalid:** Assessment failed to launch after being scheduled, possibly due to the Package, Tool, or Platform not being shared with the Project or the Project or User Account being disabled.
13. **Error:** The Assessment was unable to be processed.
14. **Waiting for resources:** Resources are being determined to run the Assessment.

By default, the **Auto refresh** setting is enabled, refreshing the Assessment Results table every few seconds. For Assessments that are actively running, the Status column will update to reflect the current status.

The screenshot shows the SWAMP web interface with the following details:

- Header:** SWAMP, About, Contact, Resources, Policies, Help, swamp1999, Sign Out
- Filters:** no project, My Test Package, any tool, any platform, any date, 50 items
- Viewer Options:** Viewer (selected), Code Dx, Native
- Table Headers:** Package, Tool, Platform, Date / Time, Status (highlighted with a red box)
- Table Data:**

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	performing assessment
My Test Package 1.0	cppcheck 1.72	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	post-processing
My Test Package 1.0	GCC current	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	post-processing
- Buttons:** View Assessment Results, Show numbering, Show grouping, Delete Assessment Results

To disable automatic refreshing, uncheck the box for Auto refresh. Select the Refresh button to manually refresh the Assessment Results table.

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	finished 4
My Test Package 1.0	cppcheck 1.72	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	finished 7
My Test Package 1.0	GCC current	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	finished 170

To view details about an Assessment, click the name of the status in the **Status** column to go to the Assessment Run Status page.

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/03/2016 09:54	finished 4

UUID (Universal Unique IDentifier)

The Assessment Run Status page contains details about an Assessment, including UUIDs (Universal Unique IDentifiers). The UUIDs assigned to each Assessment Run, Assessment Result, and Execution Record help SWAMP support staff address support tickets without requiring personal information. If you submit a support ticket, UUID information may be requested.

The screenshot shows the SWAMP web interface with the title "Assessment Run Status". The main content area displays the following information:

ASSESSMENT	
Package	My Test Package 1.0
Tool	Clang Static Analyzer 3.7
Platform	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit
Status	Finished
Execution record UUID	3c4c8493-e158-11e5-ae56-001a4a81450b
Assessment run UUID	21d22f33-864a-4e56-8dd3-09ca202997d5
Assessment result UUID	c4386a9c-e158-11e5-ae56-001a4a81450b

A red box highlights the three UUID columns: Execution record UUID, Assessment run UUID, and Assessment result UUID.

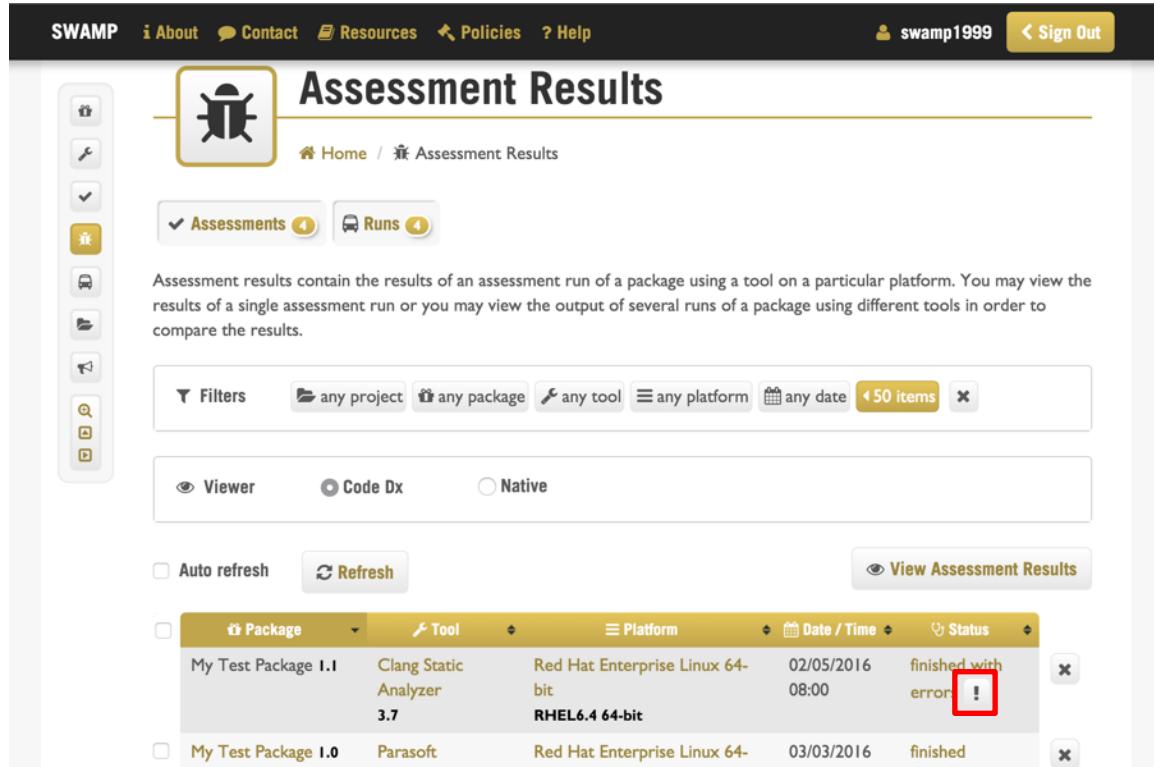
DATES	
Create date	03/03/2016 09:54:40
Run date	03/03/2016 09:55:06
Completion date	03/03/2016 09:58:17
Execution duration	00:03:11

A red box highlights the completion date column.

STATISTICS	
Lines of code	2038

Viewing an Error Report

In the event that an Assessment finishes with errors, an error report is available for troubleshooting. On the Assessment Results page, select the ! button in the Status column for an assessment that “finished with errors.”



The screenshot shows the SWAMP Assessment Results page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation is a sidebar with various icons. The main title is "Assessment Results". Underneath it, there are links for "Assessments" (4) and "Runs" (1). A descriptive text block explains that assessment results contain the results of an assessment run of a package using a tool on a particular platform. It allows viewing results of a single assessment run or comparing multiple runs. Below this is a filter section with dropdowns for project, package, tool, platform, date, and a "50 items" limit. There are also options for "Viewer" (selected), "Code Dx", and "Native". Further down are "Auto refresh" and "Refresh" buttons, and a "View Assessment Results" link. The main content is a table with columns for Package, Tool, Platform, Date / Time, and Status. The first row, for "My Test Package 1.1", has its status cell highlighted with a red box containing an exclamation mark (!). The second row, for "My Test Package 1.0", shows a "finished" status.

Package	Tool	Platform	Date / Time	Status
My Test Package 1.1	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	02/05/2016 08:00	finished with error !
My Test Package 1.0	Parasoft	Red Hat Enterprise Linux 64-bit	03/03/2016	finished

*****Note:** When an Assessment has “finished with errors” the results cannot be viewed in the SWAMP. (There is no check box on the left of the Package column to select the results for viewing.) You must review the error report, address the problem with the package, and re-run the assessment. Contact the SWAMP if additional support is needed.

The Failed Assessment Report contains information to help you address problems with the Software Package. Refer to Part 7 of this User Manual for more information about Troubleshooting, or contact the SWAMP if additional support is needed.

Failed Assessment Report

- [Error messages from assessment](#)
- [Standard out](#)
- [Standard error](#)
- [Version information](#)
- [Download all failed results as a single file](#)

Error messages from assessment

Failing Step Error Message
configure ./configure failed exec error (No such file or directory) at /mnt/in/build_assess_driver line 929.

Standard out

FILE: build/configure_stdout.out from out/build.tar.gz

Standard error

FILE: build/configure_stderr.out from out/build.tar.gz
Can't exec "./configure": No such file or directory at /mnt/in/build_assess_driver line 708.

Version information

Component	Version
SWAMP	1.24.1244
ruby-assess	0.9.4
c-assess	1.0.4
java-assess	2.1.7
python-assess	1.0.4
resultparser	2.1.7

Report generated: Fri Mar 4 18:40:36 2016

Viewing Results

The SWAMP supports multiple results viewers.

1. The SWAMP's **Native** viewer provides a basic, HTML-based summary.
2. **CodeDx™** is a third-party, integrated results viewer. More information about CodeDx™ is available at <http://secureddecisions.com/products/codedx/>.

To view the Results of your Assessments, you will need to select a results viewer along with Assessment Results.

1. Select the option for the desired results viewer, CodeDx or Native.

*****Note:** *Results from the RevealDroid tool can only be viewed using the SWAMP's Native viewer.*

2. Check the box to the left of the Package column corresponding to one or more finished Assessments. Only Assessment runs marked "finished" in the Status column can be viewed with a results viewer.

*****Note:** *Assessment Results are associated with Projects. To view multiple Assessment Results in the same CodeDx viewer, the Package name and version must match.*

*****Note:** *Shift+click will allow you to select a range of check boxes.*

*****Note:** *If you created several Assessments using the All tools option described on page 129, you can easily select all of the related Assessment Results at once. Check the box to **Show grouping** to sort these related Assessment Results together.*

In this view, checking the box next to the first Result in the group will also select all related Results below it, allowing you to easily select and view all related Results for that Package at once. Notice that the related Results share the same background shading. Also, subsequent values in the table are left blank to indicate that they have the same value as the first row/Result in the group.

3. Select **View Assessment Results**.

*****Note:** *If you have already viewed Assessment Results in CodeDx, you do not need to re-select the Results to view them again; this will prevent re-loading the same Results into CodeDx. Simply select the CodeDx viewer and **View Assessment Results** without selecting individual Results. You will receive a notification about launching CodeDx with the Results that you previously viewed. Currently, CodeDx will hold up to 5 different Assessment Results for each Project and preserve status changes and annotations saved in previous sessions.*

The screenshot shows the SWAMP Assessment Results page. At the top, there are navigation links for About, Contact, Resources, Policies, Help, and a sign-out link. The main title is "Assessment Results" with a bug icon. Below the title, there are links for Home and Assessment Results. Underneath, there are two tabs: "Assessments" (with 3 items) and "Runs" (with 0 items). A descriptive text explains that assessment results contain the results of an assessment run of a package using a tool on a particular platform. It allows viewing results of a single assessment run or comparing multiple runs. A filter bar at the top right includes dropdowns for project, package, tool, platform, date, and a search field with a count of 50 items. Below the filters, there are three viewer options: "Viewer" (selected), "Code Dx", and "Native". A checkbox for "Auto refresh" is checked. On the right, a large "View Assessment Results" button is highlighted with a red box. The main content area displays a table of assessment runs. The columns are Package, Tool, Platform, Date / Time, and Status. The rows show:

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	Clang Static Analyzer 3.7	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	03/10/2016 13:39	finished 4
	cppcheck 1.72			finished 7
	GCC current			finished 170

Below the table, there are checkboxes for "Show numbering" and "Show grouping".

4. The Results will open in a new window.

*****Note:** If you do not see your Results, make sure that your browser's pop-up blocker is not blocking the window. It is recommended that you allow pop-ups from <https://www.mir-swamp.org>.

Native Viewer

If you choose to view multiple Results using the Native viewer, a separate window will open to display the Results identified by each assessment Tool.

Cppcheck 1.70 Report

Summary

Total	error	warning	style	performance	portability	information
7	2	1	0	0	4	0

Severity	File	Line	Message
error	snappy-c-master/scmd.c	152	Resource leak: fd
portability	snappy-c-master/snappy.c	244	'iv.iov_base' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined. Arithmetic
portability	snappy-c-master/snappy.c	273	'iov.iov_base' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined.
portability	snappy-c-master/snappy.c	294	'iov.iov_base' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined.
error	snappy-c-master/map.c	28	Memory leak: map
warning	snappy-c-master/sgverify.c	180	%d in format string (no. 4) requires 'int' but the argument type is 'unsigned int'.
portability	snappy-c-master/sgverify.c	44	'p' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined. Arithmetic

Results from the RevealDroid tool can only be viewed using the Native viewer.

revealdroid v2015.11.05 Report

Summary

Total
1

Group	Message
Benign	hello Using '/opt/swamp/android-sdk-linux/platforms/android-17/android.jar' as android.jar Warning: java.lang.ref.Finalizer is a phantom class! Android API Usage Extraction has run for 11557 ms features: FILE,1.0;IPC,66.0;LOG,137.0;NETWORK,1.0;NO_CATEGORY,3920.0; Reputation Confidence: 0.9714285714285714 Reputation: Benign

CodeDx Viewer

If you choose to view multiple Results using CodeDx, the Results from all assessment Tools will be viewable together in a single CodeDx window.

On the CodeDx Project List page, select **Latest Analysis Run** to open your results.

Projects Help Logged in version 1.5.1-SW-1 - 9/29/2014 **CodeDx**
A PRODUCT OF SECURE DECISIONS

Project List

My Test Package

Latest Analysis Run uploaded on 11/18/2015

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Projects **Help** Logged in version 1.5.1-SW-1 - 9/29/2014 **CodeDx**

My Test Package » Analysis Run 1 Created on 11/18/2015 Uploaded on 11/18/2015 11 total weaknesses View ▾

Weakness Flow

Filters	
Weakness count	11 / 11
Tool	Clang (36.4%) Cppcheck (63.6%)
Severity	Unspecified (63.6%) Low (9.1%) Medium (9.1%) High (18.2%)
Codebase Location	
Tool Overlaps	
CWE	
Status	Unresolved (100%)

Displaying all weaknesses Bulk Operations for the 11 matching weaknesses Change status... ▾ Generate report ▾

Weaknesses						
ID	Tool	Rule	CWE	Codebase Location	Status	
8	Clang	Undefined allocation of 0 bytes..	131	sgverify.c:40	Unresolved	
5	Clang	Undefined allocation of 0 bytes..	131	sgverify.c:116	Unresolved	
7	Clang	Result of operation is garbage ...	457	snappy.c:284	Unresolved	
6	Clang	Dead assignment	563	scmd.c:111	Unresolved	
11	Cppcheck	Arithmetic calculations involvin...	628	sgverify.c:44	Unresolved	
10	Cppcheck	Format string requires signed i...	686	sgverify.c:180	Unresolved	
9	Cppcheck	Variable(s) allocated memory ...	401	map.c:28	Unresolved	
4	Cppcheck	Arithmetic calculations involvin...	628	snappy.c:294	Unresolved	
3	Cppcheck	Arithmetic calculations involvin...	628	snappy.c:273	Unresolved	
2	Cppcheck	Arithmetic calculations involvin...	628	snappy.c:244	Unresolved	
1	Cppcheck	Resources acquired without bei...	404	scmd.c:152	Unresolved	

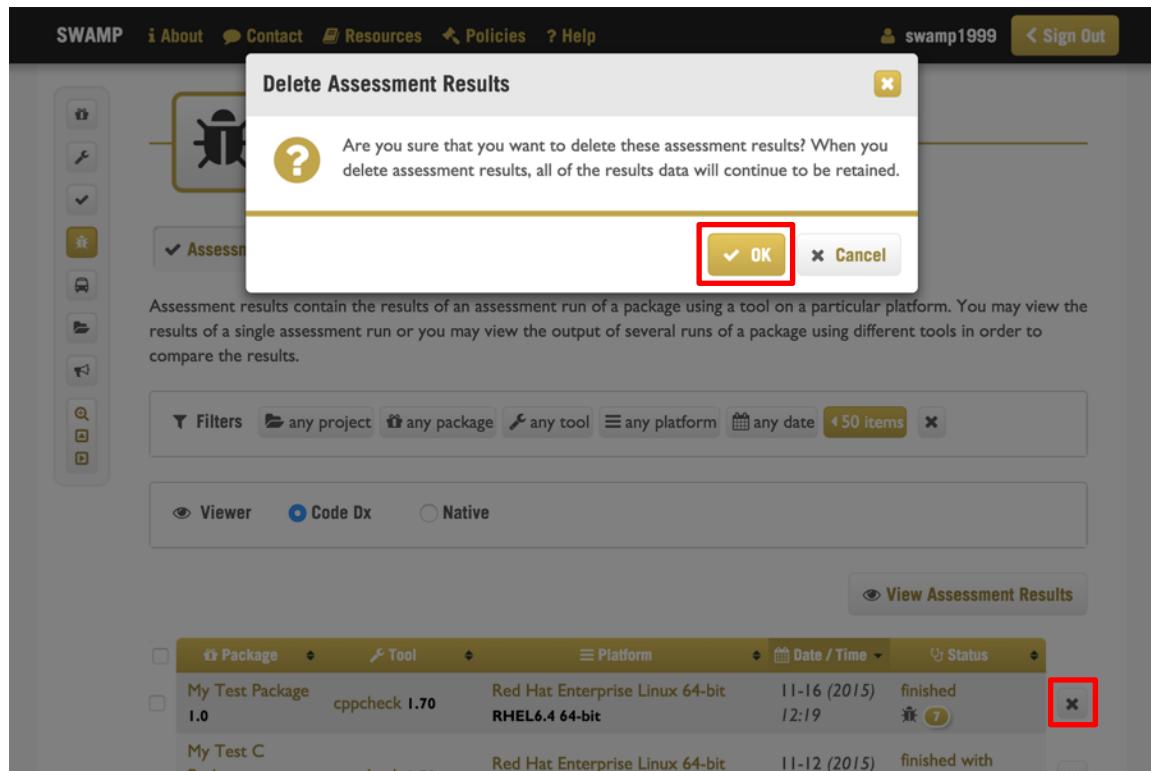
Show 25 ▾ Displaying 1 to 11 of 11 Weaknesses

For more information about using the CodeDx Viewer, select **Help** to open the CodeDx User Guide to Sections 6 – Analysis Results and 7 – Weakness Details.

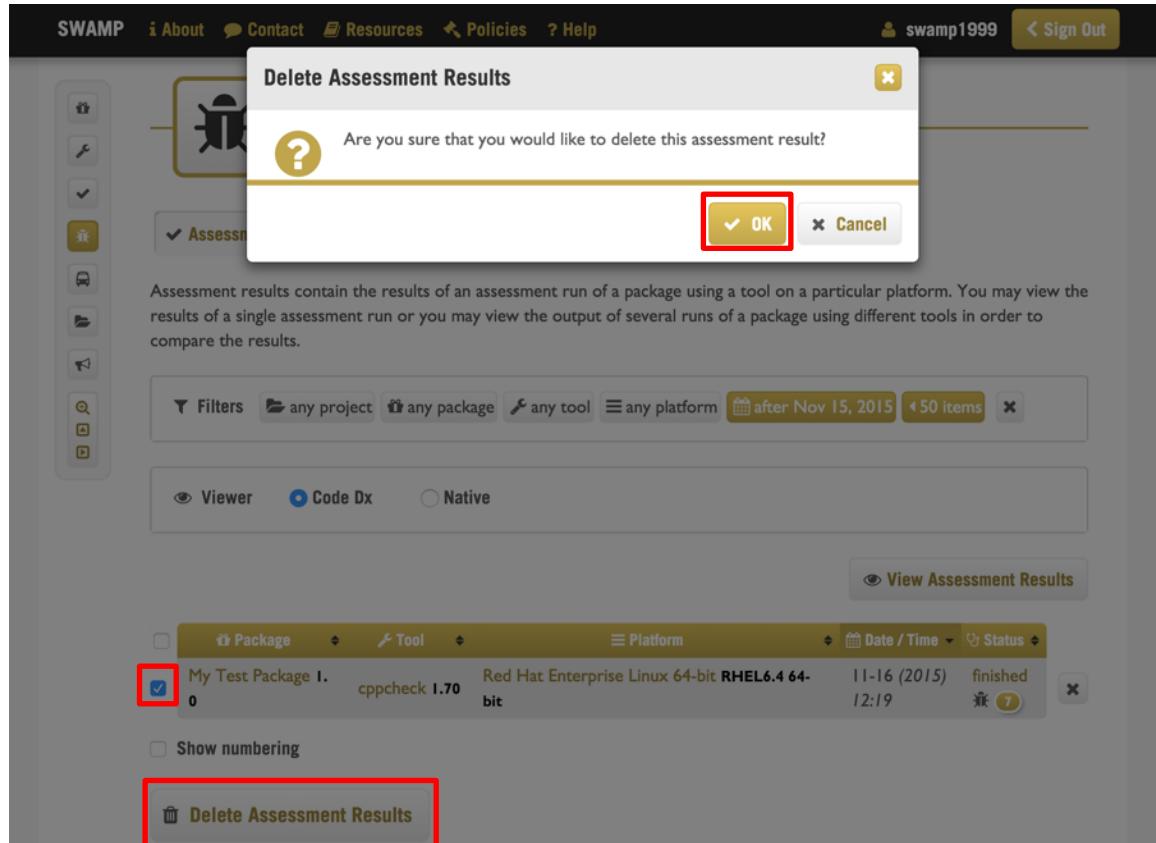
Select **Generate report** to download the assessment results as a CSV, PDF, or XML.

Deleting Results

You may delete Results that you have created. On the Assessment Results page, select the **X** to the right of a Result you wish to delete. Then select **OK**.



Alternatively, you can check the box to the left of one or more Results. Select **Delete Assessment Results**, and then select **OK**.



Result Filters

As Assessments are run and Results are generated, it may become difficult to quickly find the Assessment Results you wish to view. Filters on the Assessment Results page allow you to easily find Results based upon a Project, Package, Tool, Platform, or Date. You may choose more than one option. Each additional filter chosen will further restrict the set of returned Results.

The screenshot shows the SWAMP Assessment Results interface. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation is a sidebar with various icons. The main title is "Assessment Results". Underneath the title, there are two buttons: "Assessments" (with a count of 2) and "Runs" (with a count of 2). A descriptive text block explains what assessment results are and how they can be compared. Below this is a "Filters" section with several dropdown menus: "any project", "any package", "any tool", "any platform", "any date", and a "50 items" button. This entire filters section is highlighted with a red rectangle. Below the filters is a "Viewer" section with radio buttons for "Code Dx" (selected) and "Native". To the right of the viewer section is a "View Assessment Results" button. The main content area displays a table of assessment results. The columns are: Package, Tool, Platform, Date / Time, and Status. There are two rows of data:

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	11-16 (2015) 12:19	finished 7
My Test C Package 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	11-12 (2015) 16:22	finished with errors !

Select the Project filter to find Results from Any, None, or a specific Project. In this case, None means your My Project.

The screenshot shows the 'Assessment Results' page. At the top, there's a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out button. Below the navigation is a sidebar with various icons. The main content area has a title 'Assessment Results' with a bug icon. Below the title are links for Home and Assessment Results. Underneath these are two buttons: 'Assessments' (with a count of 2) and 'Runs' (with a count of 2). A descriptive text block explains what assessment results are. Below this is a 'Filters' section with several dropdown menus. The 'Project filter' dropdown is open, showing options: 'Any', 'None', 'Projects I Own', and 'Test'. The 'None' option is highlighted. A red box highlights the 'any project' dropdown in the filters section. At the bottom right of the filters section is a 'View Assessment Results' button.

Select the Package filter to find Results for a specific Package.

This screenshot is similar to the previous one, showing the 'Assessment Results' page. The layout includes the same navigation bar, sidebar, and main content area. The 'Filters' section is visible, with the 'any package' dropdown highlighted by a red box. This dropdown is open, showing a search input field and a list of packages: 'Any', 'Protected Packages' (with items 'My Test C Package' and 'My Test Package'), and 'Public Packages' (with items '2048-android' and 'acpi'). A 'View Assessment Results' button is located at the bottom right of the filters section. At the very bottom of the page are 'Date / Time' and 'Status' dropdown menus.

Select the Tool filter to find Results using a specific Tool.

The screenshot shows the SWAMP Assessment Results page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in. Below the navigation bar is a sidebar with various icons. The main content area has a title 'Assessment Results' with a subtitle 'Home / Assessment Results'. Below the subtitle are two buttons: 'Assessments 2' and 'Runs 2'. A text block explains that assessment results contain the results of an assessment run of a package using a tool on a particular platform. It allows viewing results of a single assessment run or comparing multiple runs. Below this text is a 'Filters' section with several dropdowns and buttons. One dropdown, 'any tool', is highlighted with a red box. To the right of the dropdown is a 'Tool filter' panel with a search bar and a list of public tools: Android lint, Bandit, and Brakeman. At the bottom right of the filters section is a 'View Assessment Results' button.

Select the Platform filter to find Results run on a specific Platform.

This screenshot is from the same SWAMP Assessment Results page as the previous one. The layout is identical, including the navigation bar, sidebar, and main content area. The 'any platform' filter is highlighted with a red box in the 'Filters' section. To the right of the filter is a 'Platform filter' panel with a search bar and a list of public platforms: Android, Debian Linux, and Fedora Linux. The 'View Assessment Results' button is located at the bottom right of the filters section.

Select the Date filter to find Results based upon the Date/Time of the Assessment Run. Enter a date in the After or Before field. Dates assume a time of 12:00 AM or midnight.

The screenshot shows the SWAMP Assessment Results page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a sign-out link. Below the navigation bar, the title "Assessment Results" is displayed next to a logo of a bug inside a yellow square. A sidebar on the left contains various icons for project management, such as add, edit, delete, and search. The main content area shows a brief description of assessment results and a "Filters" section. The "Date filter" section is highlighted with a red box around the "any date" button. It includes fields for "After" and "Before" dates, each with a calendar icon and a dropdown menu. The "After" field has a calendar showing November 2015, with the 18th selected. A "View Assessment Results" button is located at the bottom right of the filter section.

To enter a date range, click the Date filter again and add the other date. To clear a date, select the X within the date field.

This screenshot shows the same SWAMP Assessment Results page after a date range has been entered. The "Date filter" section now has a red box around the "after Nov 15, 2015" button, indicating the selected date. The "After" field shows "11/15/2015" and the "Before" field shows "mm/dd/yyyy". A "Reset" button is visible at the bottom right of the filter section. The rest of the page, including the sidebar and main content area, remains the same as in the first screenshot.

Select the Limit filter to limit the number of Assessments displayed.

The screenshot shows the SWAMP Assessment Results page. On the left is a sidebar with various icons. The main area has a title 'Assessment Results' with a bug icon. Below it are links for 'Home' and 'Assessment Results'. Underneath are two tabs: 'Assessments 2' (selected) and 'Runs 2'. A descriptive text block follows, followed by a filter bar. The 'Limit filter' section is highlighted with a red box around the '50 items' button. Below it is a dropdown menu for selecting the number of results to display, currently set to 50. At the bottom right of the page is a 'View Assessment Results' button.

Select “-” to minimize or close an open filter. Multiple filters may be open simultaneously. To reset the values for a single filter, open the filter, and select **Reset**. To reset the values for all filters, select the **X**. Select **OK** to confirm the reset.

This screenshot shows the same SWAMP Assessment Results page as above, but with several filters open. The 'Filters' bar at the top has multiple dropdowns open, each with a red box around its close button ('X'). Below the filters is a 'Date filter' section with 'After' and 'Before' fields, also with a red box around its close button. At the bottom right of this section is a 'Reset' button, which is also highlighted with a red box. The rest of the page structure is identical to the first screenshot.

Navigating Within Results

From the Assessment Results page, you can easily view Assessments and Scheduled Assessment Runs.

1. On the **Results** page, buttons located at the top of the page take you to the Assessments and Runs pages.

By default, no filters will be set when you arrive on the Assessments or Runs pages. If you set one or more of the Filters on the Results page, those filter settings will be preserved on the Assessments or Runs pages, narrowing the list of Assessments or Runs displayed.

The screenshot shows the SWAMP Assessment Results page. At the top, there is a navigation bar with links for About, Contact, Resources, Policies, Help, and a user sign-in area. Below the navigation bar is a large icon of a bug inside a shield-like shape. The main title 'Assessment Results' is centered above a breadcrumb trail: Home / Assessment Results. Below the title, there are two buttons: 'Assessments' (with a count of 2) and 'Runs' (with a count of 2), both of which are highlighted with a red box. A descriptive text block follows, explaining what assessment results are. Below this is a 'Filters' bar with several dropdown menus: 'any project', 'any package', 'any tool', 'any platform', 'any date', and a '50 items' button, all of which are also highlighted with a red box. Further down, there are viewer selection options: 'Viewer', 'Code Dx' (which is selected and highlighted with a blue circle), and 'Native'. At the bottom, there is a table header with columns for Package, Tool, Platform, Date / Time, and Status, followed by two rows of data. The first row shows 'My Test Package 1.0' checked, 'cppcheck 1.70', 'Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit', '11-16 (2015) 12:19', and 'finished' with a status badge showing '7'. The second row shows 'My Test C 1.0' checked, 'cppcheck 1.70', 'Red Hat Enterprise Linux 64-bit', '11-12 (2015)', and 'finished with'.

Package	Tool	Platform	Date / Time	Status
My Test Package 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit RHEL6.4 64-bit	11-16 (2015) 12:19	finished
My Test C 1.0	cppcheck 1.70	Red Hat Enterprise Linux 64-bit	11-12 (2015)	finished with

2. To return to your Results page, you will need to use the back button within your browser to preserve any filters set on that page. Alternatively, you can use the Navigation Bar to return to the Results page with no filters set.

Part 7: Helpful Resources

Contact

The **Contact** tab allows you to contact the SWAMP with questions or feedback. You can also report a security incident.

Enter the required information and select **Submit**.

*****Note:** If you are signed in to your SWAMP account, your contact information will automatically populate into the form. If you do not have a SWAMP account or have not signed in to your SWAMP account, you will need to enter your name and email address if you would like us to respond to your inquiry.

SWAMP Support will review your submission and respond as soon as possible.

The screenshot shows the SWAMP website's navigation bar at the top, with the 'Contact' tab highlighted by a red box. Below the navigation is a large 'Contact Us' section featuring a speech bubble icon. A horizontal line separates this from the main content area, which includes links for Email and Security, and a copyright notice at the bottom.

SWAMP [About](#) [Contact](#) [Resources](#) [Policies](#) [Help](#) [Sign In](#)

Contact Us

[Home](#) / [Contact Us](#)

Feel free to contact us with questions, suggested improvements, new feature ideas, praise, criticism, or whatever thoughts you wish to share.

Email

Email us at support@continuousassurance.org.

Security

To report a security incident, click [here](#).

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Resources

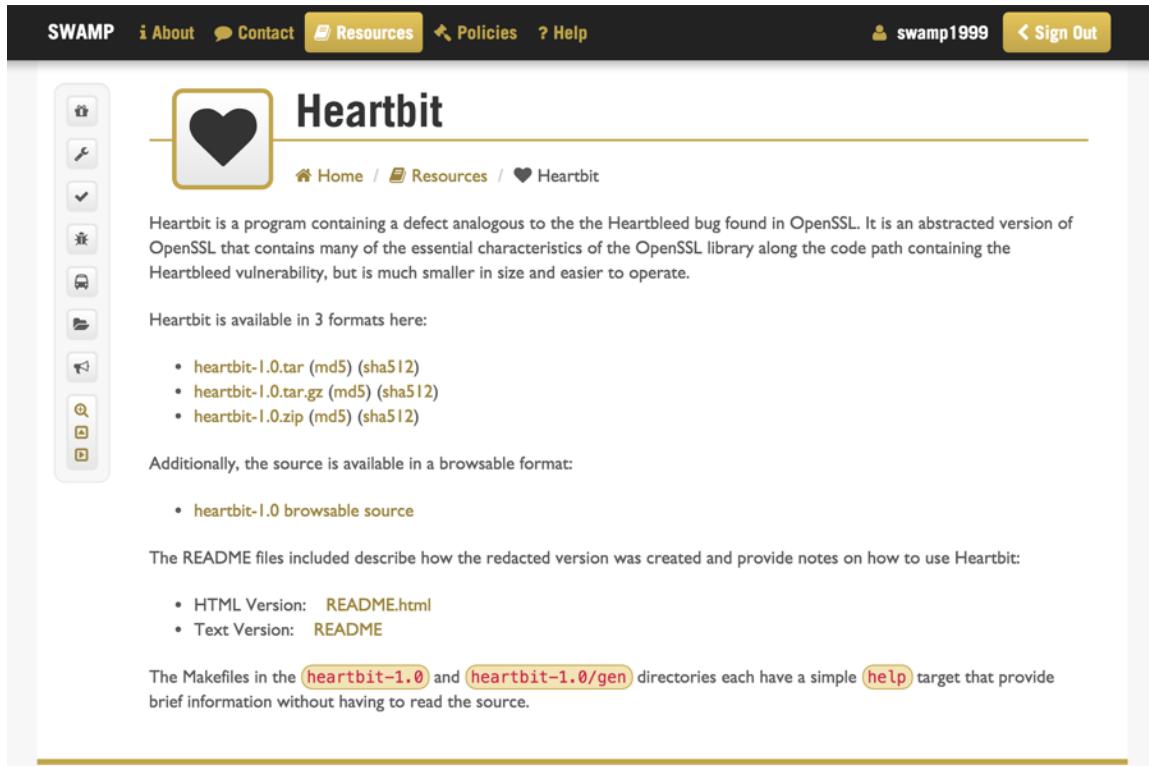
The **Resources** tab contains useful information about the curated packages available in the SWAMP, as well as the supported tools and platforms.

The screenshot shows the SWAMP web application interface. At the top, there is a navigation bar with links: SWAMP, About, Contact, Resources (which is highlighted with a red box), Policies, Help, a user profile icon for 'swamp1999', and a Sign Out button. Below the navigation bar is a sidebar on the left containing various icons. The main content area has a title 'Resources' with a book icon. It includes a breadcrumb trail: Home / Resources. Below this, there is a brief description: 'The SWAMP hosts a collection of community provided software assurance resources for public use and inspection.' followed by four sections: 'Heartbit', 'Packages', 'Tools', and 'Platforms'. Each section has a small icon and a brief description.

- Heartbit**
A dissection and simplification of the OpenSSL code responsible for the Heartbleed bug.
- Packages**
A list of the curated packages that are available to all SWAMP users.
- Tools**
A list of the tools that are available to all SWAMP users.
- Platforms**
A list of the platforms that are available to all SWAMP users.

Heartbit

In response to the Heartbleed bug, SWAMP hosts the **Heartbit** package, a program containing an analogous defect using a smaller, abstracted version of OpenSSL. It is available from the Heartbit page.



The screenshot shows the SWAMP website interface with a dark header bar. The header includes links for About, Contact, Resources (which is highlighted in yellow), Policies, Help, and a user account section for 'swamp1999'. Below the header is the main content area for the 'Heartbit' package. On the left, there is a vertical sidebar with several icons: a gift, a key, a checkmark, a gear, a folder, a speaker, a magnifying glass, and a square. The main content area features a large icon of a heart inside a square frame, followed by the title 'Heartbit'. Below the title is a breadcrumb navigation: Home / Resources / Heartbit. A descriptive text block states: 'Heartbit is a program containing a defect analogous to the the Heartbleed bug found in OpenSSL. It is an abstracted version of OpenSSL that contains many of the essential characteristics of the OpenSSL library along the code path containing the Heartbleed vulnerability, but is much smaller in size and easier to operate.' A section titled 'Heartbit is available in 3 formats here:' lists three download links: 'heartbit-1.0.tar (md5) (sha512)', 'heartbit-1.0.tar.gz (md5) (sha512)', and 'heartbit-1.0.zip (md5) (sha512)'. Another section, 'Additionally, the source is available in a browsable format:', lists a single link: 'heartbit-1.0 browsable source'. A note at the bottom indicates: 'The README files included describe how the redacted version was created and provide notes on how to use Heartbit:'. It lists two versions: 'HTML Version: README.html' and 'Text Version: README'. A final note states: 'The Makefiles in the `heartbit-1.0` and `heartbit-1.0/gen` directories each have a simple `help` target that provide brief information without having to read the source.'

Curated Packages

A complete list of the curated packages that are available to SWAMP users can be found under the **Resources** tab.

Filters are available to narrow the results by package type.

For more information, click the name of a curated package in the Package column.

*****Note:** You must sign in to your SWAMP account to access this additional information.

The following curated packages are available to all SWAMP users.

Package	Description	Type	Versions
2048-android	The android port of the 2048 game (for offline playing)	Android Java Source Code	• 1.95 • 1.8
acpi	Python ACPI parser library	Python2	• 1.0.0
AeroCalc	AeroCalc is a pure python package that performs various Aeronautical Engineering Calculation.	Python2	• 0.11

From the package screen, click the name/number in the Version column to open details about that version of the curated package.

The screenshot shows the SWAMP software package interface. At the top, there is a navigation bar with links for About, Contact, Resources (highlighted in yellow), Policies, Help, and a user account labeled swamp1999 with a Sign Out option. Below the navigation bar, the title "2048-android Package" is displayed, along with a gift icon. A sidebar on the left contains various icons for file operations like upload, download, search, and refresh. The main content area shows the package details: Name (2048-android), Language (Android Java Source Code), Creation date (03/27/2015), External URL (none), and Description (The android port of the 2048 game (for offline playing)). Below this, a section titled "Versions" lists the available versions. The table has columns for Version, Notes, and Date Added. The first row shows version 1.95, which is highlighted with a red box. The second row shows version 1.8. Both rows have the same notes and date added (03/27/2015 15:31).

Version	Notes	Date Added
1.95		03/27/2015 15:31
1.8		03/27/2015 15:31

Select **Run New Assessment** to run an assessment using this package in the SWAMP. You will then be prompted to select a tool and platform. Refer to Part 4 of this User Manual for how to run an Assessment.

Select **Download Version** to download this version of the curated package.

The screenshot shows the SWAMP web interface. At the top, there is a navigation bar with links for About, Contact, Resources (which is currently selected), Policies, and Help. On the right side of the top bar, it shows the user is signed in as 'swamp1999' and provides a 'Sign Out' link. Below the navigation bar, the main content area has a title '2048-android Package Version 1.95'. To the left of the title is a yellow icon containing a gift box. Below the title, there is a breadcrumb trail: Home / Resources / Packages / 2048-android / Package Version 1.95. Underneath the title, there are three buttons: 'Assessments' (with a checkmark icon), 'Results' (with a chart icon), and 'Runs' (with a car icon). Below these buttons is a row of tabs: 'Details' (selected, highlighted in yellow), 'Source', and 'Build'. The main content area displays detailed information about the package:

Package	2048-android
Version	1.95
Filename	2048-android-master.zip
Creation date	03/27/2015
Last modified date	06/17/2015
Release date	03/27/2015
Version notes	none

At the bottom of the page, there are two prominent buttons: 'Run New Assessment' and 'Download Version'. The 'Run New Assessment' button is highlighted with a red box.

Tools

A complete list of the supported tools available to SWAMP users can be found under the **Resources** tab.

For more information, click the name of a tool in the Tool column.

*****Note:** You must sign in to your SWAMP account to access this additional information.

The screenshot shows the SWAMP interface with the 'Resources' tab selected. On the left, there's a sidebar with various icons. The main content area has a title 'Tools' with a wrench icon. Below it is a breadcrumb trail: Home / Resources / Tools. A descriptive text states: 'Tools are software programs that are used to perform static code analysis on your software source code.' Under the heading 'Open tools', it says: 'These tools are free for anyone to use without restrictions.' A table lists five tools:

Tool	Package Types	Description	Versions
Android lint	• Android Java Source Code	Android Lint is a static code analysis tool that checks Android project source files for potential bugs and optimization improvements for correctness, security, performance, usability, accessibility, and internationalization. http://tools.android.com/tips/lint	• 0.1.4
Bandit	• Python2 • Python3	Bandit provides a framework for performing security analysis of Python source code. https://wiki.openstack.org/wiki/Security/Projects/Bandit	• 8ba3536 • 0.14.0
Brakeman	• Ruby on Rails	An open source vulnerability scanner specifically designed for Ruby on Rails applications. http://brakemanscanner.org/	• 3.05
checkstyle	• Java Source Code • Android Java Source Code	Checkstyle is a development tool to help programmers write Java code that adheres to a coding standard. http://checkstyle.sourceforge.net/	• 6.2 • 5.7

Select **Run New Assessment** to run an assessment using this tool in the SWAMP. You will then be prompted to select a package and platform. Refer to Part 4 of this User Manual for how to run an Assessment.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources (which is highlighted in yellow), Policies, Help, and a user account labeled 'swamp1999'. Below the navigation bar, there is a sidebar on the left containing various icons. The main content area is titled 'Brakeman Tool' and displays the following information:

Tool name	Brakeman
Package types supported	<ul style="list-style-type: none">Ruby on Rails
Platforms supported	<ul style="list-style-type: none">Scientific Linux 64-bit
Creation date	08-17 12:48 (2015)
Last modified date	08-24 12:33 (2015)
Description	An open source vulnerability scanner specifically designed for Ruby on Rails applications. http://brakemanscanner.org/

Below this section, there is a heading 'Versions' followed by a table showing one version entry:

Version	Notes	Date Added
3.05		08-17 (2015) 12:48

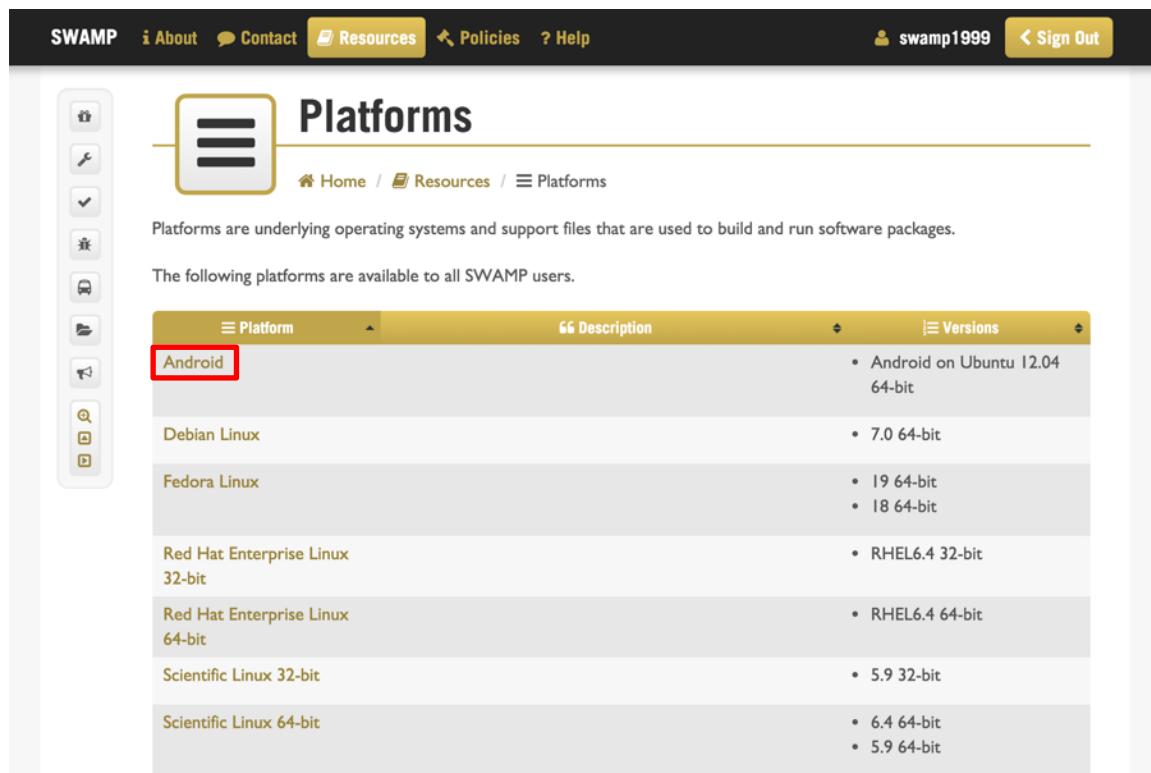
A large red rectangular box highlights the 'Run New Assessment' button at the bottom of the page.

Platforms

A complete list of the supported platforms available to SWAMP users can be found under the **Resources** tab.

For more information, click the name of a platform in the Platform column.

*****Note:** You must sign in to your SWAMP account to access this additional information.



The screenshot shows the SWAMP web interface with the 'Resources' tab selected. The main content area is titled 'Platforms'. A sidebar on the left contains various icons. The main content area displays a table of platforms:

Platform	Description	Versions
Android		<ul style="list-style-type: none">Android on Ubuntu 12.04 64-bit
Debian Linux		<ul style="list-style-type: none">7.0 64-bit
Fedora Linux		<ul style="list-style-type: none">19 64-bit18 64-bit
Red Hat Enterprise Linux 32-bit		<ul style="list-style-type: none">RHEL6.4 32-bit
Red Hat Enterprise Linux 64-bit		<ul style="list-style-type: none">RHEL6.4 64-bit
Scientific Linux 32-bit		<ul style="list-style-type: none">5.9 32-bit
Scientific Linux 64-bit		<ul style="list-style-type: none">6.4 64-bit5.9 64-bit

Select **Run New Assessment** to run an assessment using this platform in the SWAMP. You will then be prompted to select a package and tool. Refer to Part 4 of this User Manual for how to run an Assessment.

The screenshot shows the SWAMP application interface. At the top, there is a navigation bar with links for About, Contact, Resources (which is highlighted in yellow), Policies, Help, and a user account labeled 'swamp1999'. Below the navigation bar, the main content area has a title 'Android Platform' with a corresponding icon. The page displays the following information:

- Platform name: Android
- Creation date: 01-08 14:53 (2015)
- Description: (empty)

Below this, there is a section titled 'Versions' with the sub-instruction: 'The following versions of this software platform are available:'. A table header row is shown with columns for Version, Notes, and Date Added. Under the 'Version' column, there is one entry: 'Android on Ubuntu 12.04 64-bit'. At the bottom of this section is a large yellow button with the text '▶ Run New Assessment'.

Policies

The **Policies** tab contains documents regarding the use of the SWAMP.

The screenshot shows the SWAMP application's navigation bar with tabs for About, Contact, Resources, Policies (which is highlighted with a red box), and Help. On the right, there are user profile and sign-out links. The main content area has a sidebar with various icons. The title "Policies" is displayed above a list of policy documents. The documents listed are: Acceptable Use, Privacy, GitHub Use, and Permissions. Each document entry includes a small icon and a link to the document.

Below are policy documents regarding use of the SWAMP application.

Acceptable Use
SWAMP terms and conditions for acceptable use.

Privacy
SWAMP Privacy Policy (PDF)

GitHub Use
SWAMP terms and conditions for github connection.

Permissions
Project Ownership Use

Help

The **Help** tab contains resources to help you use the SWAMP.

The screenshot shows the SWAMP application's navigation bar at the top with links for About, Contact, Resources, Policies, and Help. The 'Help' link is highlighted with a red box. Below the bar, the main content area has a sidebar on the left with icons for Home, Help, FAQ, Videos, and User Manual. The main content area is titled 'Help' and includes a breadcrumb trail: Home / ? Help. It contains text about resources for using the SWAMP application, a link to the Continuousassurance.org FAQ, a link to the SWAMP YouTube channel, and a link to the SWAMP User Manual (PDF). The entire page is framed by a thick gold border.

Troubleshooting

The information below has been provided to assist with troubleshooting. Contact the SWAMP if additional support is needed.

Assessment Status

After an Assessment has completed, the status of the run will be displayed.

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

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. From the Assessment Results page, select the ! button in the Status column to view errors in the Failed Assessment Report. You can download the .tar ball file and view error messages and version information to determine where the Assessment 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 a compatible **Package** and **Platform** have been selected.

Below is a picture of a **Build** screen from adding a new **Package** or adding a new **Version of a Package**. If the build path/system is incorrect, an error message will be displayed.

The screenshot shows the 'Add New Package' interface. On the left is a sidebar with various icons. The main area has a title 'Add New Package' with a large plus sign icon. Below it are tabs for 'Details', 'Source', 'Build' (which is highlighted in yellow), and 'Sharing'. A breadcrumb navigation shows 'Home / Packages / + Add New Package'. The 'Build' section contains fields for 'Build system' (set to 'Make'), 'Platform version' (a dropdown menu), and 'Dependencies' (a text input field). To the right, there's a 'C/C++ BUILD INFO' section and a 'PACKAGE DEPENDENCIES' section. A red box highlights an error message in a yellow box: 'Error: Could not find a build file called 'makefile' or 'Makefile' within 'clojure-1.5.1/' directory. You may need to set your build path or the path to your build file.' A note at the bottom says '*Fields are required'.

Submitting a Support Ticket

1. Obtain the Unique Universal Identifiers (UUIDs) for a support ticket. (Refer to page 170 of this User Manual for how to obtain the UUIDs.)
 - a. Select **Results** to open the **Assessment Results** page.
 - b. Select the text in the **Status** column for your result.
 - c. The **Assessment Run Status** page contains the **Assessment run UUID**.
2. Navigate to <https://ticket.continuousassurance.org> to submit a support ticket.

Glossary

Assessment: 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.

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 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 Assessments, schedule Runs, and view assessment Results.

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

Software Package: A software component or system used by others. A set of files containing related software or source code that needs to be assessed for vulnerabilities or security issues.

User: A person who has registered to use the Software Assurance Marketplace.