

Spectrum Collaboration Challenge (SC2)



www.SpectrumCollaborationChallenge.com

Downloading Files from an S3 Bucket - Revision 1

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Document Change Summary

Section	Description	Date
ALL	Initial Release, Rev 1	Oct 17, 2016

That should bring up the Add New Account dialog shown below:

Add New Account [online help](#)

Enter new account details and click Add new account

Account Name:

You can assign any name to your account.

Storage Type:

Amazon S3 Storage

Choose the storage you want to work with. Default value is Amazon S3 Storage.

Access Key ID:

Access Key ID can be found here: https://console.aws.amazon.com/iam/home?#security_credential

Secret Access Key:

Secret Access Key can be found here: https://console.aws.amazon.com/iam/home?#security_credential

Encrypt Access Keys with a password:

Turn this option on if you want to protect your Access Keys with a master password.

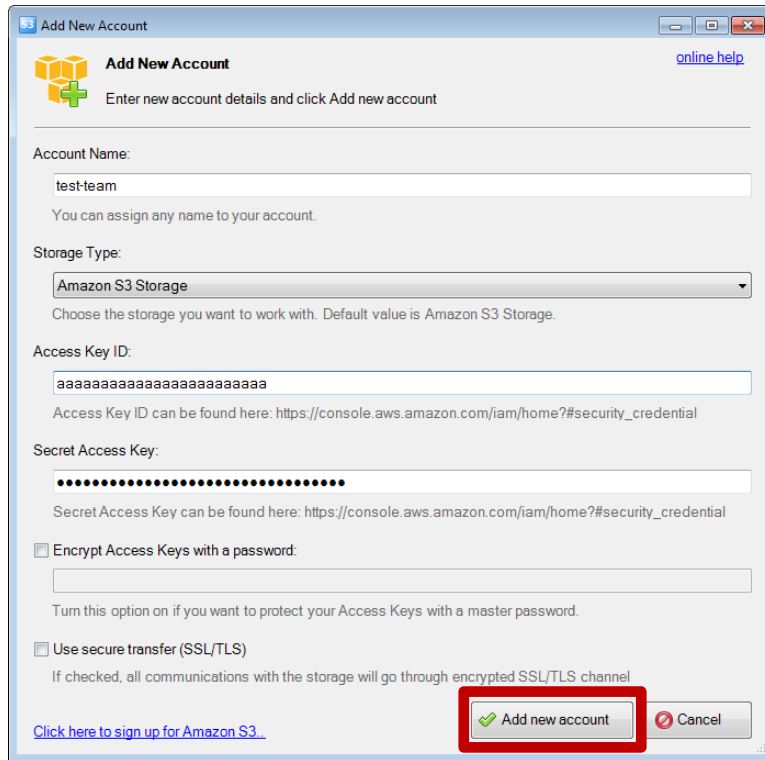
Use secure transfer (SSL/TLS)

If checked, all communications with the storage will go through encrypted SSL/TLS channel

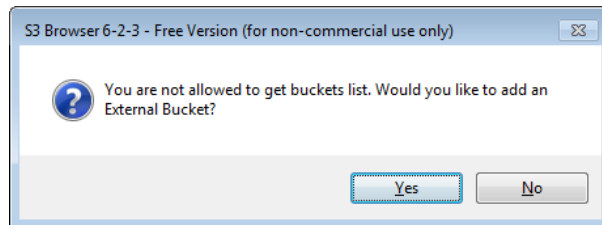
[Click here to sign up for Amazon S3.](#)

Each Open Track team should have received an email with their Amazon S3 credentials. It will have been sent to the email address provided during the Open Track signup process. Fill in the Account Name, Access Key ID, and Secret Access Key fields using the information in that email.

Once the Account Name, Access Key ID, and Secret Access Key fields are filled in, click on the “Add new account” button in the lower right of the dialog box.



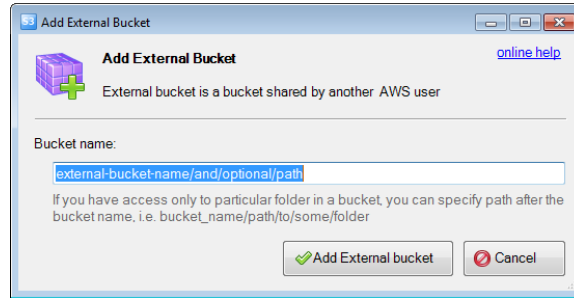
You should then see a popup like the following:



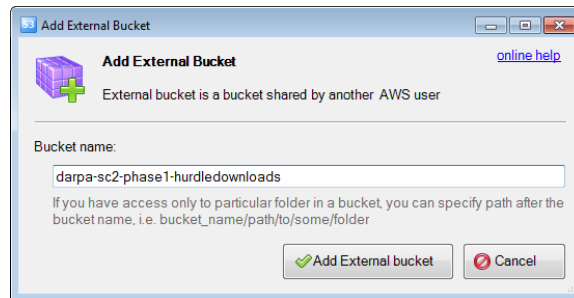
This is the expected behavior. Click Yes.

2.2 Adding External Buckets

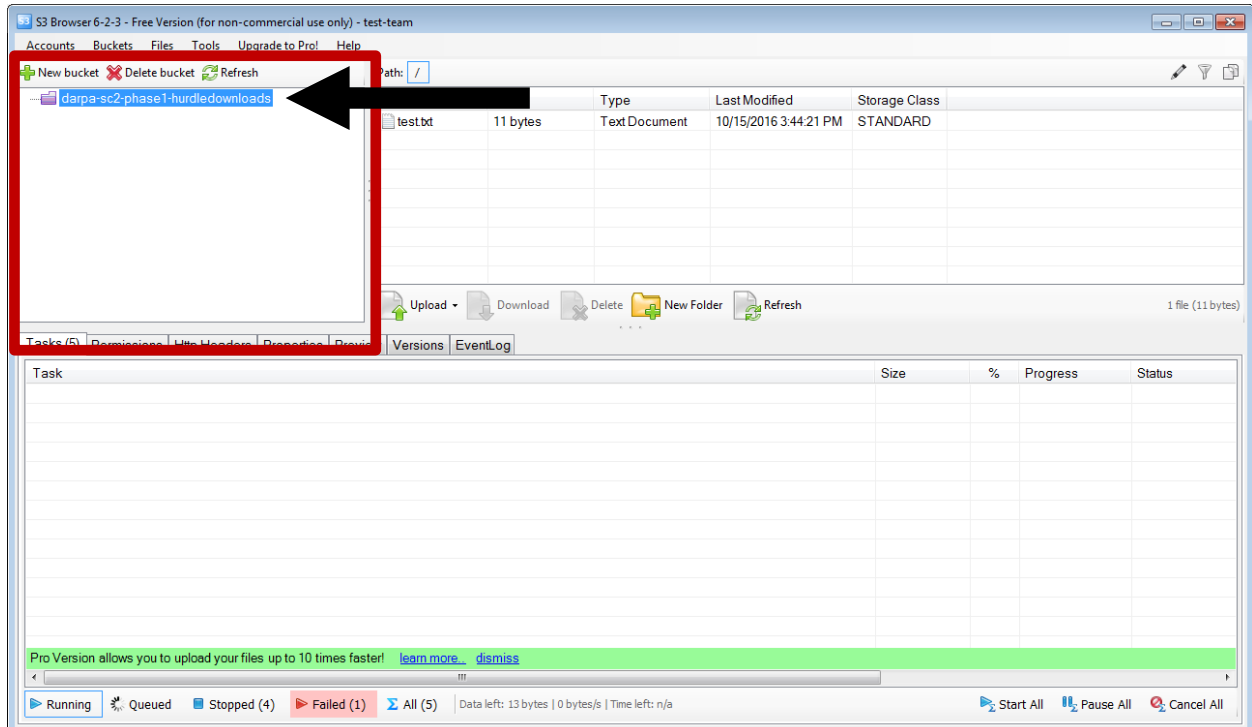
The Add External Bucket dialog box should be automatically shown. If it is not visible, click on the Buckets menu at the top of the screen and select “Add External Bucket”.



Enter “darpa-sc2-phase1-hurdledownloads” to the Bucket name field, as shown below:

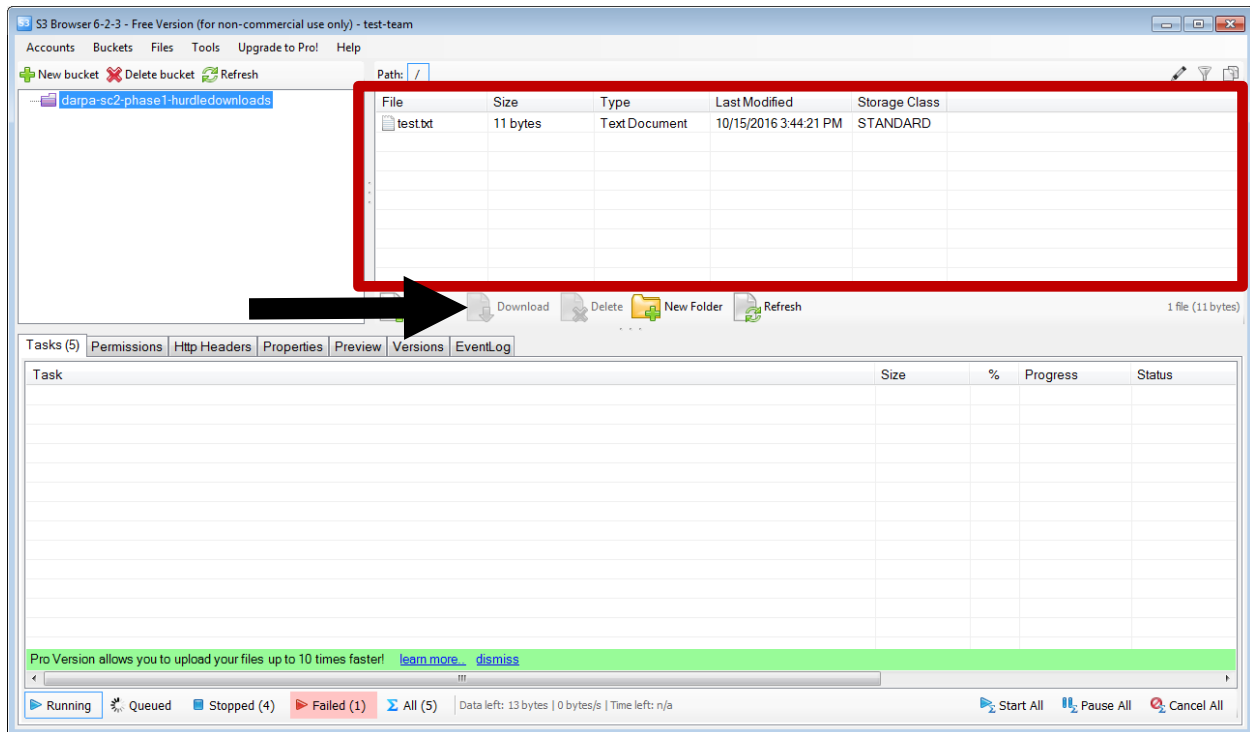


Click the “Add External bucket” button. If you are successful, you should see the new bucket show up in the list of buckets you have access to in the main window:



2.3 Downloading Files

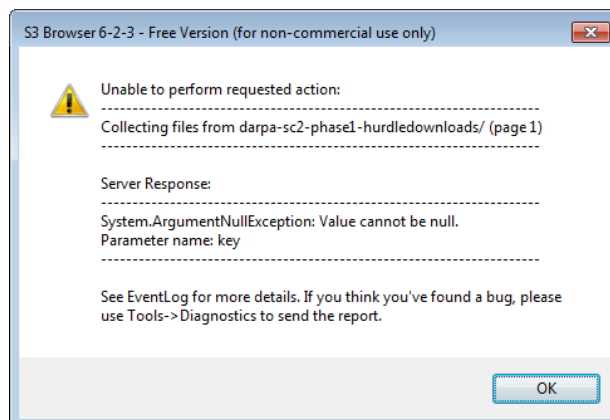
Once your account is properly configured and the hurdle downloads bucket has been added to S3 Browser, download files by selecting them in the Paths pane and clicking on the Download icon.



The file download should start and show up in the Tasks window.

2.4 Common Errors

Sometimes users will see the following dialog box after adding a new External Bucket to S3 Browser:



The resolution for this issue is to close S3 Browser and reopen it.

3 S3cmd

S3cmd is a free command line interface to S3 used to upload, retrieve, and manage data stored on Amazon S3. See: <http://s3tools.org/s3cmd>

Either download and install S3cmd from SourceForge or GitHub as described here: <http://s3tools.org/download> or install S3cmd from your Linux distribution's repository as described here: <http://s3tools.org/repositories>

3.1 Configuring S3cmd

Open up a terminal and run:

```
s3cmd --configure
```

You will be prompted for your Access Key and Secret Key. Each Open Track team should have received an email with their Amazon S3 credentials. It will have been sent to the email address provided during the Open Track signup process. Use the Access Key and Secret Key from that email now.

You will also be prompted for the following:

- Encryption Password: Using a password here would result in all of your uploads being automatically encrypted when stored on S3. Don't fill this in or the SC2 team will be unable to use files you upload later. Just press the enter key.
- Path to GPG Program [/usr/bin/gpg]: The default value should be fine. Just press the enter key.
- Use HTTPS protocol [No]: This will encrypt your uploads and downloads in transit only. Using HTTPS is not required. The default should be fine. Press the enter key.

Finally, s3cmd will prompt you with the following:

```
Test access with supplied credentials? [Y/n]
```

Do not test access, as the SC2 team expects this test to fail. Open Track teams do not have permissions to list all of the S3 buckets associated with their account, causing this test to fail. Type "n" and press enter, and then type "Y" to save your settings.

3.2 Testing Your Account

Test your account settings by running the following command:

```
s3cmd ls s3://darpa-sc2-phase1-hurdledownloads/
```

If your account is properly configured, you will see the current contents of the phase1-hurdledownloads bucket, which should include at minimum the Ubuntu 14.04 VirtualBox VM.

3.3 Downloading Files

To download a file, in this case example.txt, run the following command:

```
s3cmd get s3://darpa-sc2-phase1-hurdledownloads/example.txt ./
```

This downloads the file from S3 and stores it in your current directory.

See <http://s3tools.org/s3cmd-howto> for more details on working with s3cmd.