

Running the SafeArchive System Using Amazon Web Services

Last update: 10/26/2012

The SafeArchive System (SAAS) can easily be run using Amazon Web Services. While SAAS is free-to-use open source software, Amazon Web Services (AWS) charges a fee for web hosting and data storage services. Visit <http://aws.amazon.com> for more information.

Amazon's Getting Starting guide at <http://docs.amazonwebservices.com/AWSEC2/latest/GettingStartedGuide> may also be helpful as you set up the SAAS system using AWS.

Launching the SafeArchive Amazon Machine Instance

The SafeArchive Installation begins in the AWS Management Console within Amazon Web Services. The instructions below provide guidance on launching and running the SafeArchive Amazon Machine Instance (AMI).

1. Launch a supported web browser such as Firefox.



2. Navigate to the Amazon Web Services homepage: <http://aws.amazon.com>. Sign in to the AWS Management console by clicking on the **My Account/Console** button and selecting **AWS Management Console**.

The screenshot shows the AWS homepage with the 'My Account / Console' dropdown menu open. A green arrow points to the 'AWS Management Console' option. The page content includes a main banner, featured events for AWS re:Invent, and various product and service categories.

3. Enter your e-mail address and Amazon password. If you do not have an Amazon account, you can create one for free by selecting "I am a new user."

If you have not yet signed up for AWS, a screen will appear that will instruct you through the process of signing up for AWS.

The screenshot shows the AWS sign-in page. It has a heading 'Sign In or Create an AWS Account' and a sub-heading 'You may sign in using your existing Amazon.com account or you can create a new account by selecting "I am a new user."'.

My e-mail address is:

I am a new user.

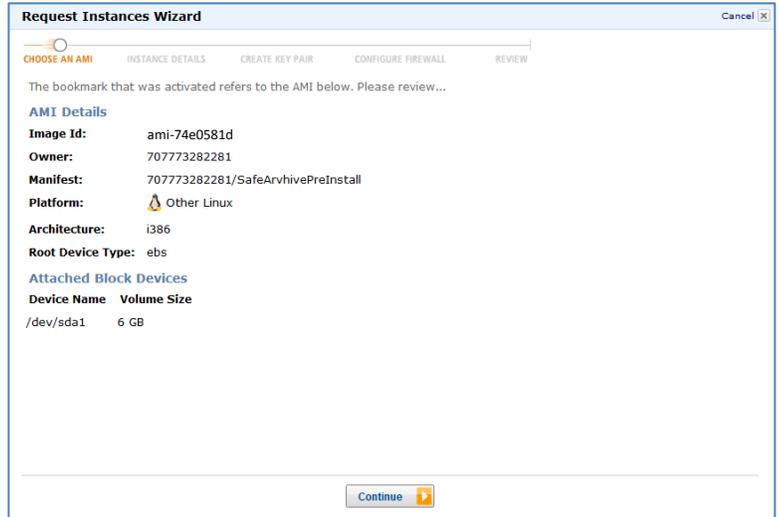
I am a returning user and my password is:

[Forgot your password?](#)

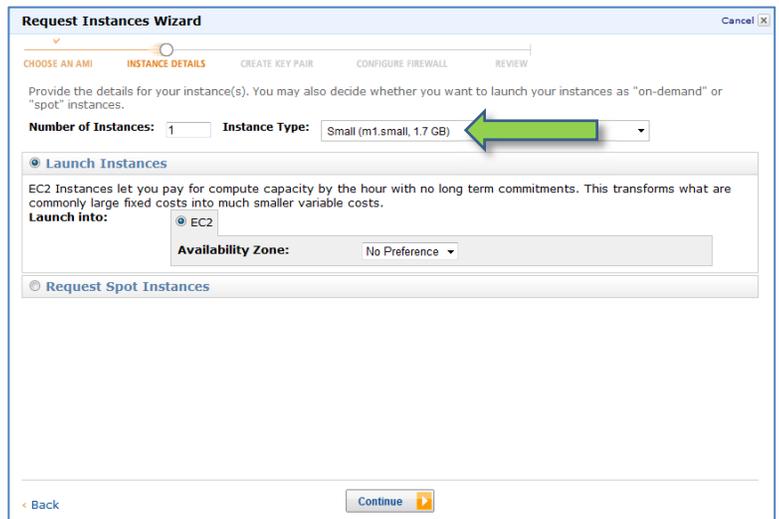
[Has your e-mail address changed?](#)

Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account.

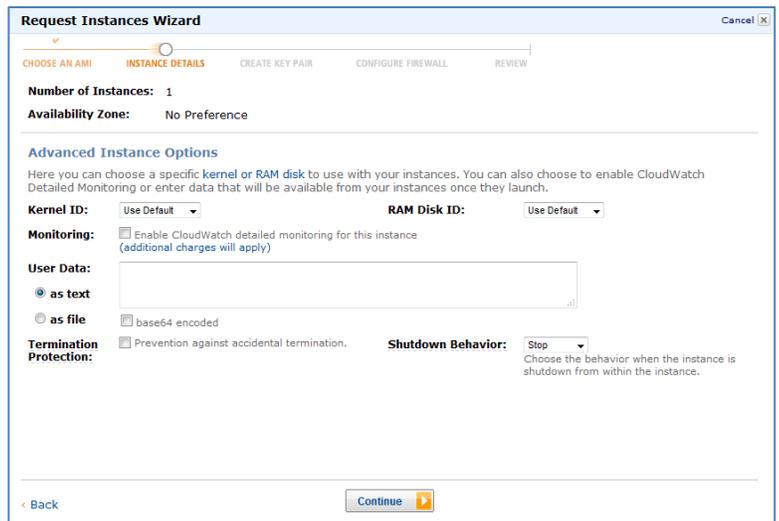
4. Follow the SAAS AMI link <<https://console.aws.amazon.com/ec2/home?region=us-east-1#launchAmi=ami-74e0581d>> to request the SafeArchive Installation AMI. When the Request Instances Wizard dialog box appears, click on the **Continue** button.



5. In the Instance Details step of the Request Instances Wizard, change the Instance type to "Small (m1.small, 1.7GB)." Click on the **Continue** button.



6. On the next screen, keep the default settings. Click on the **Continue** button.



7. Enter a Value for the “Name” Key, which will be used to identify your SAAS instance. Click on the **Continue** button.

Request Instances Wizard Cancel

CHOOSE AN AMI | **INSTANCE DETAILS** | CREATE KEY PAIR | CONFIGURE FIREWALL | REVIEW

Add tags to your instance to simplify the administration of your EC2 infrastructure. A form of metadata, tags consist of a case-sensitive key/value pair, are stored in the cloud and are private to your account. You can create user-friendly names that help you organize, search, and browse your resources. For example, you could define a tag with key = Name and value = Webservers. You can add up to 10 unique keys to each instance along with an optional value for each key. For more information, go to [Using Tags in the EC2 User Guide](#).

Key (127 characters maximum)	Value (255 characters maximum)	Remove
Name	SafeArchive	✖
		✖

Add another Tag. (Maximum of 10)

Back Continue

8. The SAAS Installer has been programmed to operate without the need for a new Key Pair. Select “Proceed without a Key Pair.” Click on the **Continue** button.

Request Instances Wizard Cancel

CHOOSE AN AMI | INSTANCE DETAILS | **CREATE KEY PAIR** | CONFIGURE FIREWALL | REVIEW

Public/private key pairs allow you to securely connect to your instance after it launches. To create a key pair, enter a name and click **Create & Download your Key Pair**. You will then be prompted to save the private key to your computer. Note, you only need to generate a key pair once - not each time you want to deploy an Amazon EC2 instance.

Choose from your existing Key Pairs

Create a new Key Pair

Proceed without a Key Pair

I do not want a keypair installed on this instance.

NOTE:You will not be able to connect to this instance unless you already know the password built in to this AMI.

Back Continue

9. In the Configure Firewall step of the Request Instances Wizard, select the default Security Group. Click on the **Continue** button.

Request Instances Wizard Cancel

CHOOSE AN AMI | INSTANCE DETAILS | CREATE KEY PAIR | **CONFIGURE FIREWALL** | REVIEW

Security groups determine whether a network port is open or blocked on your instances. You may use an existing security group, or we can help you create a new security group to allow access to your instances using the suggested ports below. Add additional ports now or update your security group anytime using the Security Groups page.

Choose one or more of your existing Security Groups

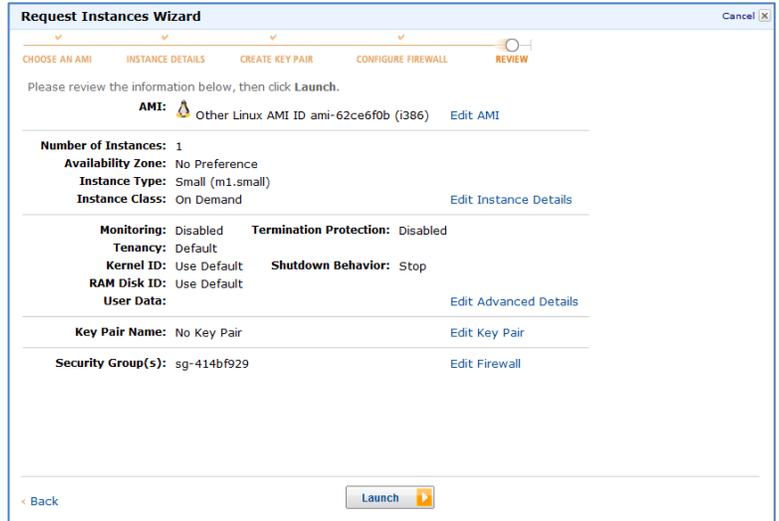
sg-414bf929 - default

(Selected groups: sg-414bf929)

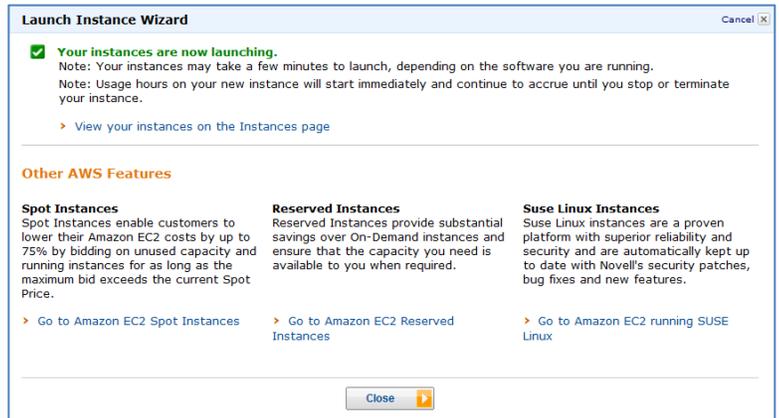
Create a new Security Group

Back Continue

10. Click on the **Launch** button to accept your settings and proceed.



11. The SAAS Instance request process is now complete. **Close** the Launch Instance Wizard dialog box.

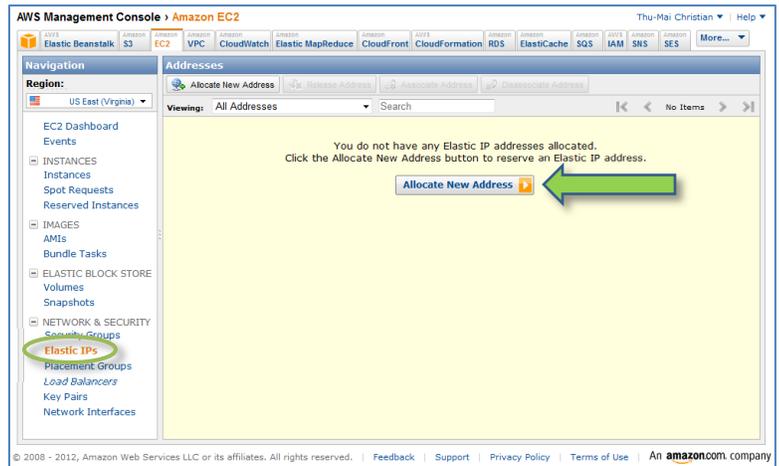


Configuring and Installing the SafeArchive AMI

Once the SafeArchive AMI is running, it will need to be associated with an IP address and TCP ports must be specified prior to running the SafeArchive Installer. The instructions below provide guidance on completing these required tasks.

1. [Creating an Elastic IP](#)
2. [Setting up Security Groups](#)
3. [Running the SAAS Installer](#)

1. Your SAAS installation requires that an IP address be associated with the instance. To generate an IP address, click on the **Elastic IPs** link in the Navigation panel on the left-hand side of the screen. Click on the **Allocate New Addresses** button at the top of the Addresses panel.

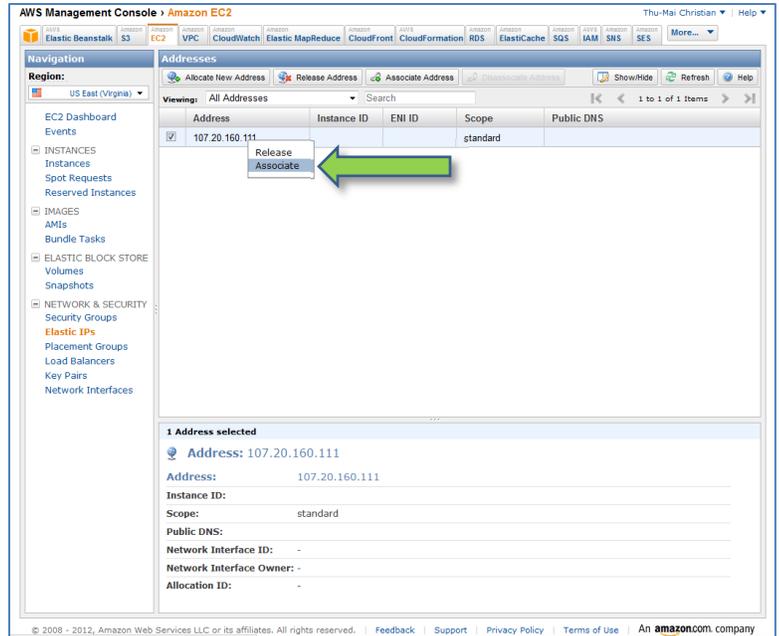


A dialogue box will appear to confirm the IP allocation action. Click on the **Yes, Allocate** button.

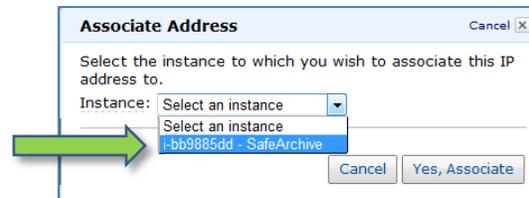


Associate your new elastic IP by right-clicking on the IP address you just generated. Select **Associate**.

Keep a record of your new Elastic IP Address. You will need to refer to it later in the the installation process.



A dialogue box will appear, which allows you to select the instance to which the IP address will be associated. Click on the SafeArchive AMI. Click on the **Yes, Associate** button.

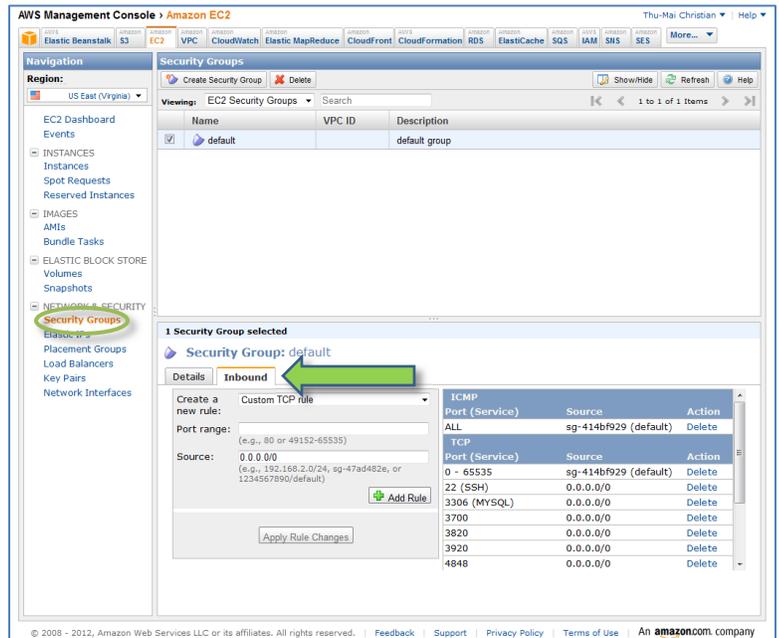


- Running SAAS requires several TCP ports to be open. To specify these ports, click on the **Security Groups** link in the Navigation panel on the left-hand side of the screen. Check the box to the left of your designated security group (the “default” security group will be used for the workshop). In the panel below, click on the **Inbound** tab. In the **Port range** field, enter the port number. Click on the **+Add Rule** button. Complete this process for each of the 8 ports listed in the box below.

22	3306	3700	3820
3920	4848	8080	8686

TCP ports for SAAS installation

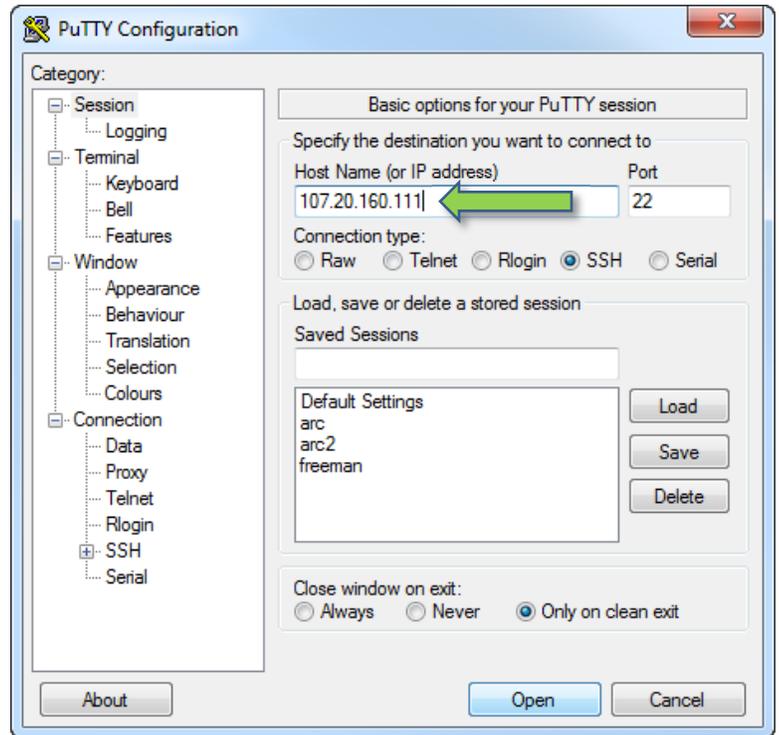
When you have added all of the ports, click on the **Apply Rule Changes** button.



3. To run the SAAS installer, open PuTTY.exe.



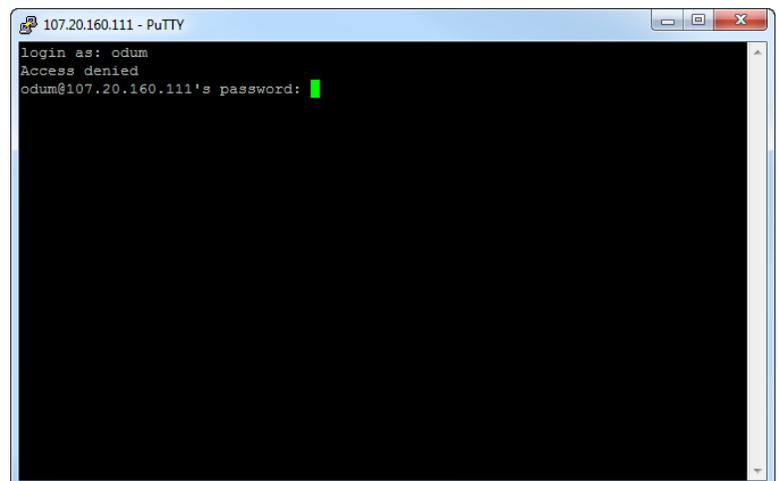
In PuTTY, enter the elastic IP address you allocated in the AWS Management Console in the Host Name (or IP address) field. Click on the **Open** button.



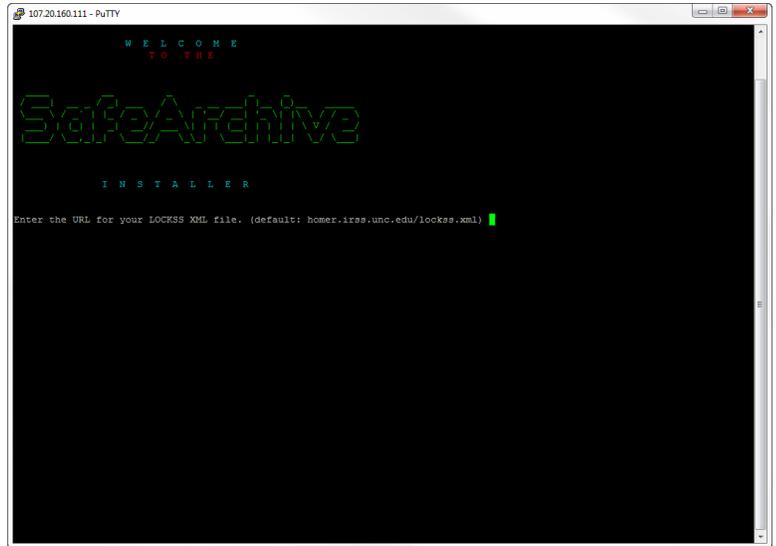
PuTTY will launch a shell script that will prompt you for a login and password. Enter the following information:

login: odum
password: odum

SAAS Installer login & password



The SafeArchive installer will prompt you for a series of inputs to configure the SafeArchive System. Default inputs are provided. To accept the default, press the enter key at the prompt.



Once the system has loaded all necessary applications and configurations, the installer will indicate that Setup is complete. A URL is provided, which links to your SafeArchive instance. Enter this URL into a Firefox browser address bar to launch the SafeArchive System.

