Amazon EC2 Instance Deployment Guide for Standalone EFT Enterprise POC

This document provides the steps necessary to create an *EC2 – Virtual Servers in the Cloud* instance. (Note that Amazon charges a fee for this service, and the fee increases with the amount of bandwidth you need.)

Please read ALL of the steps before you begin.

(At the time of this writing, the screen shots provided were accurate. When you go through this process, the screens may be different.)

Virtual Server Creation

1. The initial step is to create an Amazon AWS account. In order to do this you will need to visit the main AWS site http://aws.amazon.com and follow the online instructions
2. Choose EC2 – Virtual Servers in the Cloud
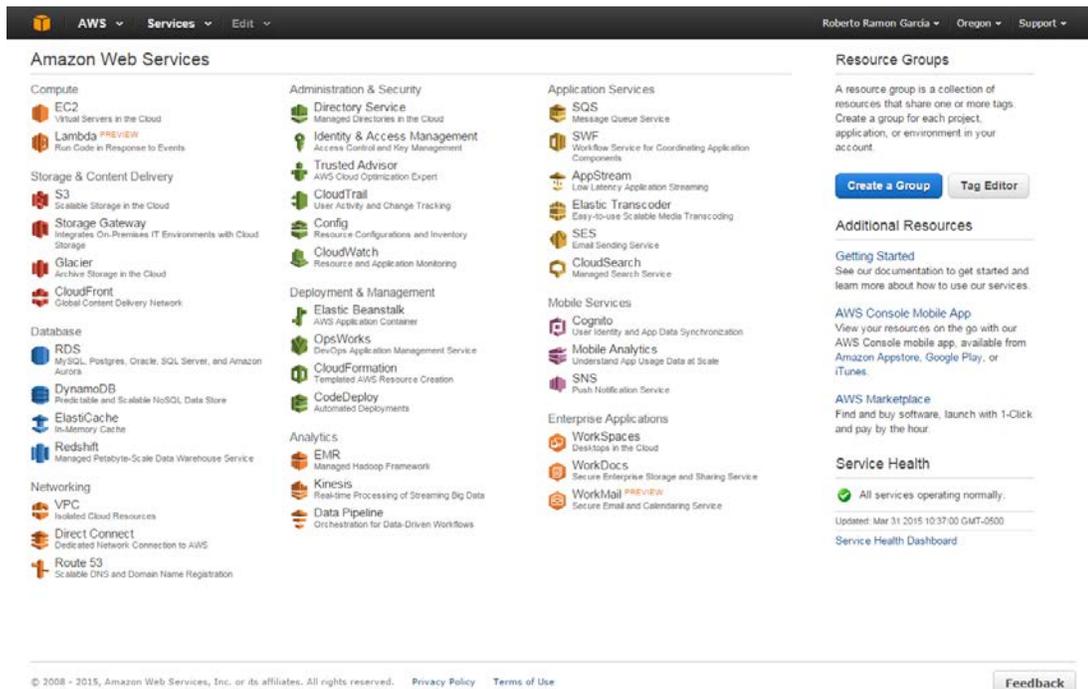
3. On the *EC2 Dashboard*, select "Launch Instance"

4. This will start an instance of a wizard-like process walking you several configuration options. The first option is the selection of the base AMI (*Amazon Machine Image*). For the EFT Enterprise Standalone Server the most economic selection is **Microsoft Windows Server 2012 Base**.

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6. The next step is to define the instance type. This will allow you to pre-select a template, which defines the CPU, memory and other parameters. The most economic choice is **t2.medium**. If your POC requires more bandwidth, memory or cores you may choose an alternate instance type but this will increase your monthly costs.

7. The next step is to define a Tag for your server if needed/wanted.

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 5: Tag Instance
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. Learn more about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	
Name		⊗

Create Tag   (Up to 10 tags maximum)

Cancel   Previous   **Review and Launch**   **Next: Configure Security Group**

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8. This step is ***VERY IMPORTANT***. The security group plays an important role in allowing external connections to EFT. You DO NOT have to set this up during the wizard process. You can come back to it as needed. Each listening port on the server will need a firewall rule defined, which will allow interaction. The rules that you define will depend on the manner in which EFT Sites are configured. The following screen shot is an example of a set of rules defined. These will need to be changed to taste.

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Tag Instance   6. Configure Security Group   7. Review

Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

Assign a security group: ● Create a **new** security group
                           ○ Select an **existing** security group

Security group name: EFT Server Security Group
Description: EFT Server Security Forwards

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	
RDP ▾	TCP	3389	Anywhere ▾ 0.0.0.0/0	⊗
Custom TCP Rule ▾	TCP	20-21	Anywhere ▾ 0.0.0.0/0	⊗
Custom TCP Rule ▾	TCP	80	Anywhere ▾ 0.0.0.0/0	⊗
Custom TCP Rule ▾	TCP	443	Anywhere ▾ 0.0.0.0/0	⊗
Custom TCP Rule ▾	TCP	22	Anywhere ▾ 0.0.0.0/0	⊗

Add Rule

⚠ **Warning**
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel   Previous   **Review and Launch**

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9. Review your configuration
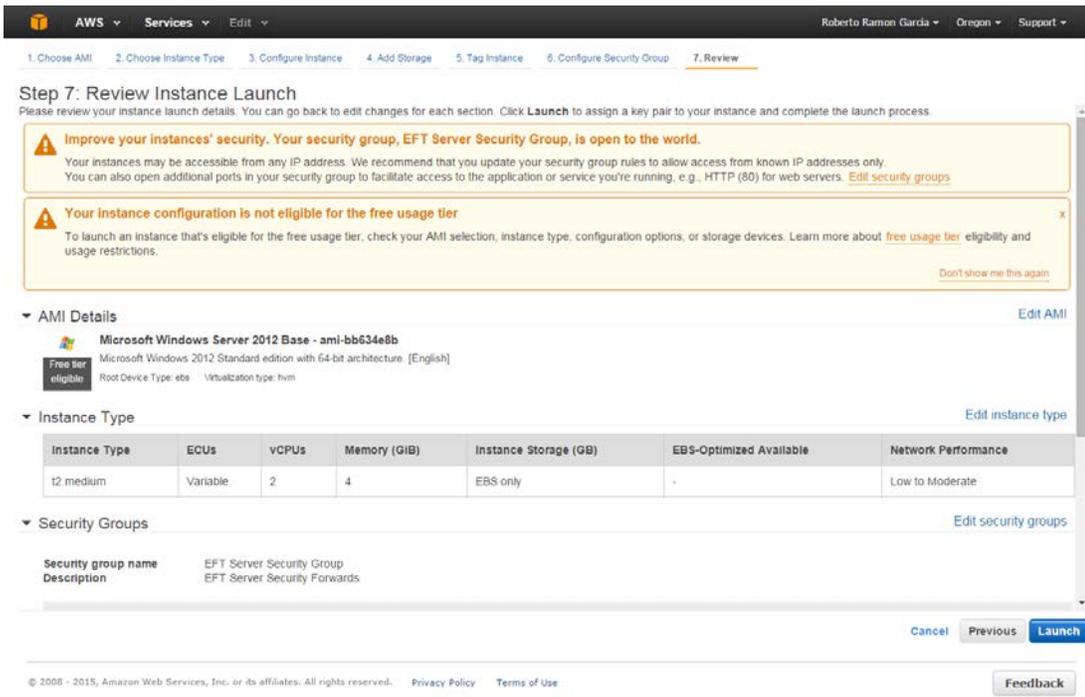
10. This step is ***VERY IMPORTANT***. You will need to create a public and private key in order to remotely log onto the created Virtual Machine. If you DO NOT set this up, you will not be able to RDP into your created instance.
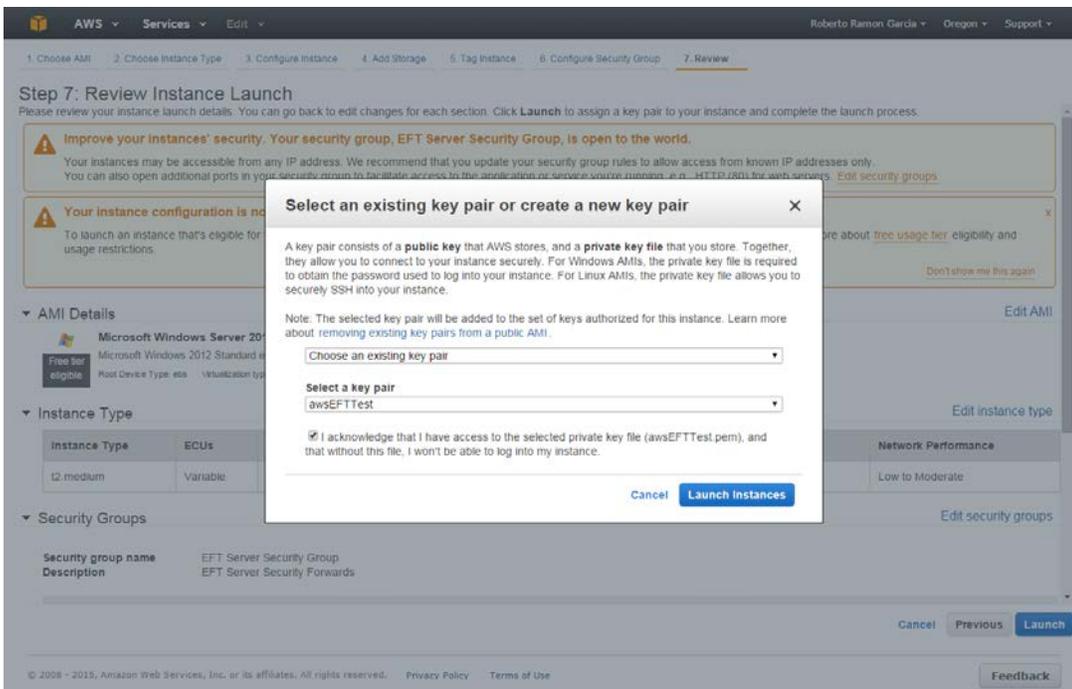
11. Once you have created your private/public key pair, the Amazon AWS logic will use this to create the login Administrator user. After waiting about 5 minutes, your new AWS instance will be available.
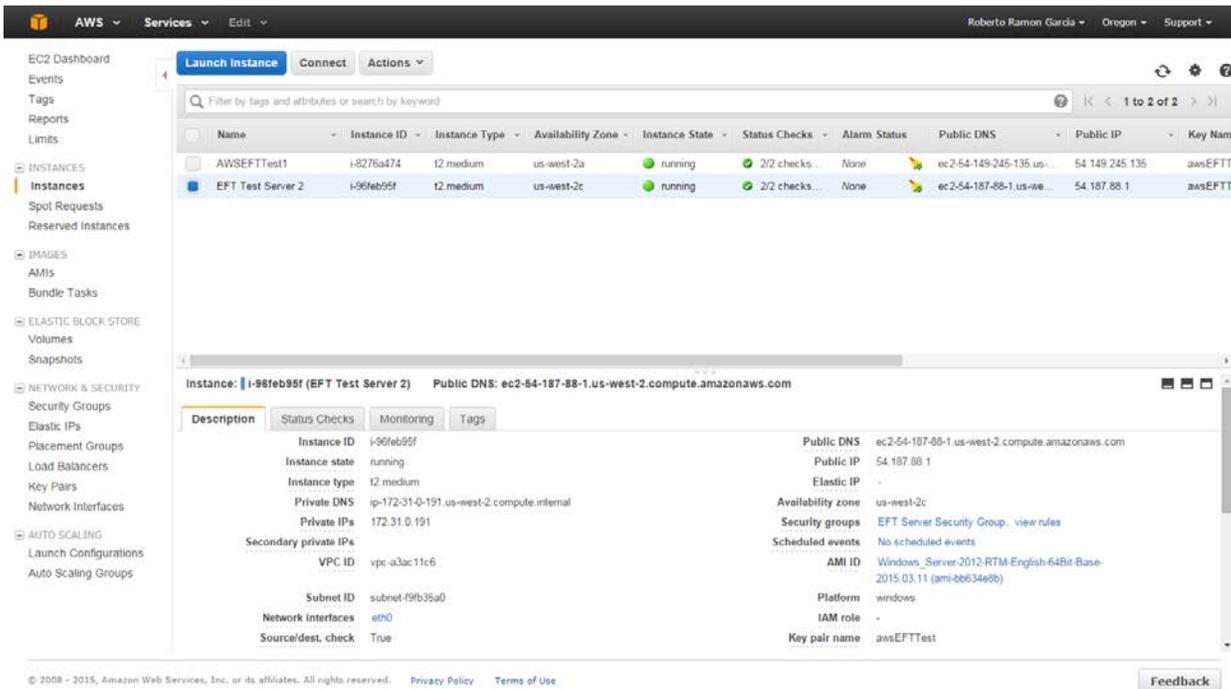
Launch and Connect to your Virtual Machine

1. Once you have created the instance, you will want to remotely connect to it. You will need to select the target instance. Once selected, you can connect by pressing the "Connect" button.
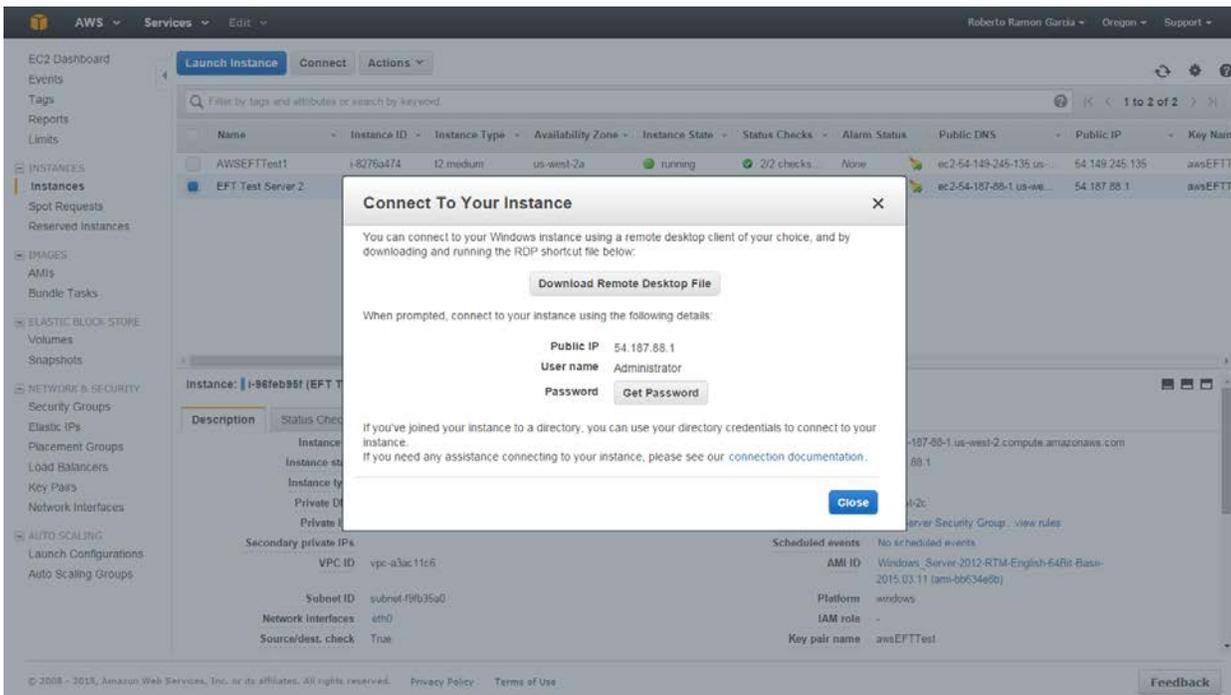
2. You will need to "Get Password" before you execute Remote Desktop. To do this, you will need to press the "Get Password" button which will ask you to locate the .pem file that was created in the previous private/public key creation process.

54.149.245.135.rdp	3/24/2015 10:34 AM	Remote Desktop ...	1 KB
awsEFTTest.pem	3/24/2015 10:31 AM	PEM File	2 KB
EFTTest1 (1).rdp	3/24/2015 10:24 AM	Remote Desktop ...	1 KB
EFTTest1.rdp	3/24/2015 8:28 AM	Remote Desktop ...	1 KB
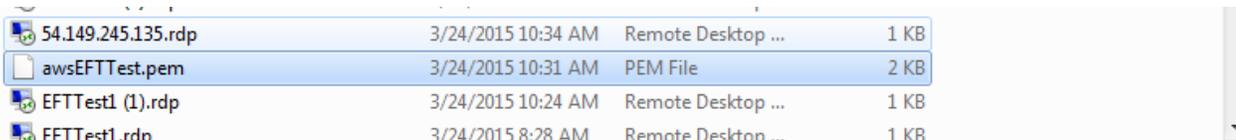
3. After this is done, you will see an ASCII representation of your private key.
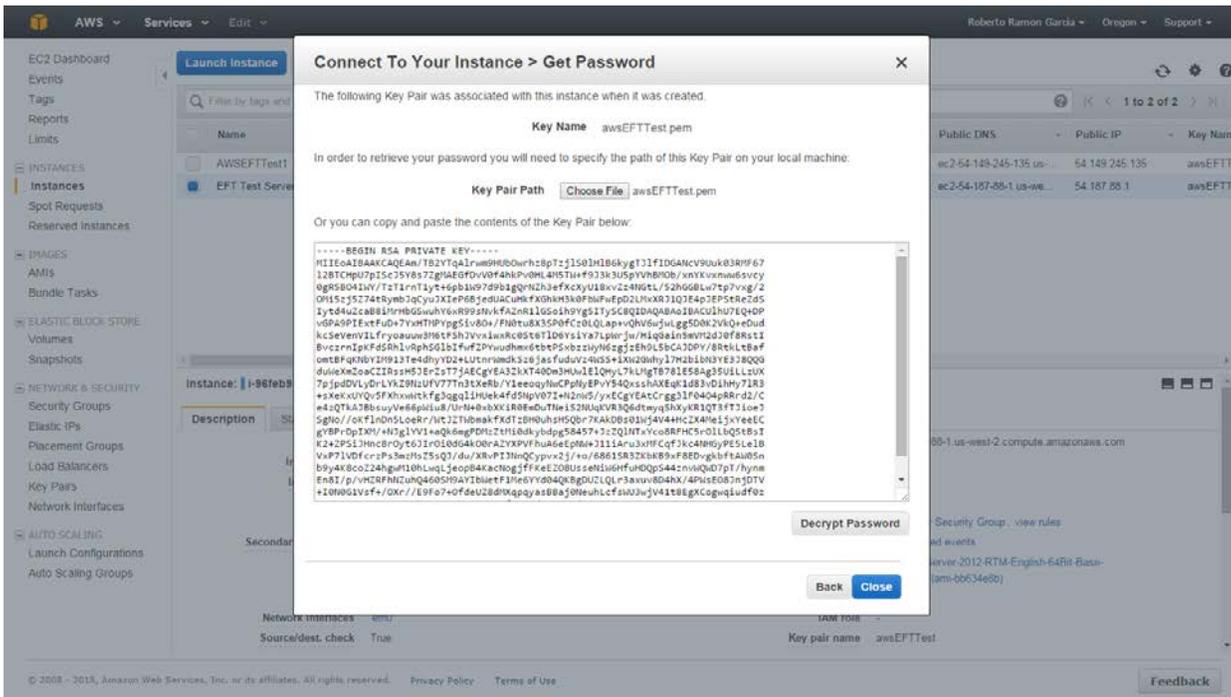
4. The ASCII representation of the private key can be decrypted. This will expose the username and password necessary for a remote desktop connection. Pressing the "Download Remote Desktop File" will download an .RDP file, which can be used by Remote Desktop Connection software on most windows environments.
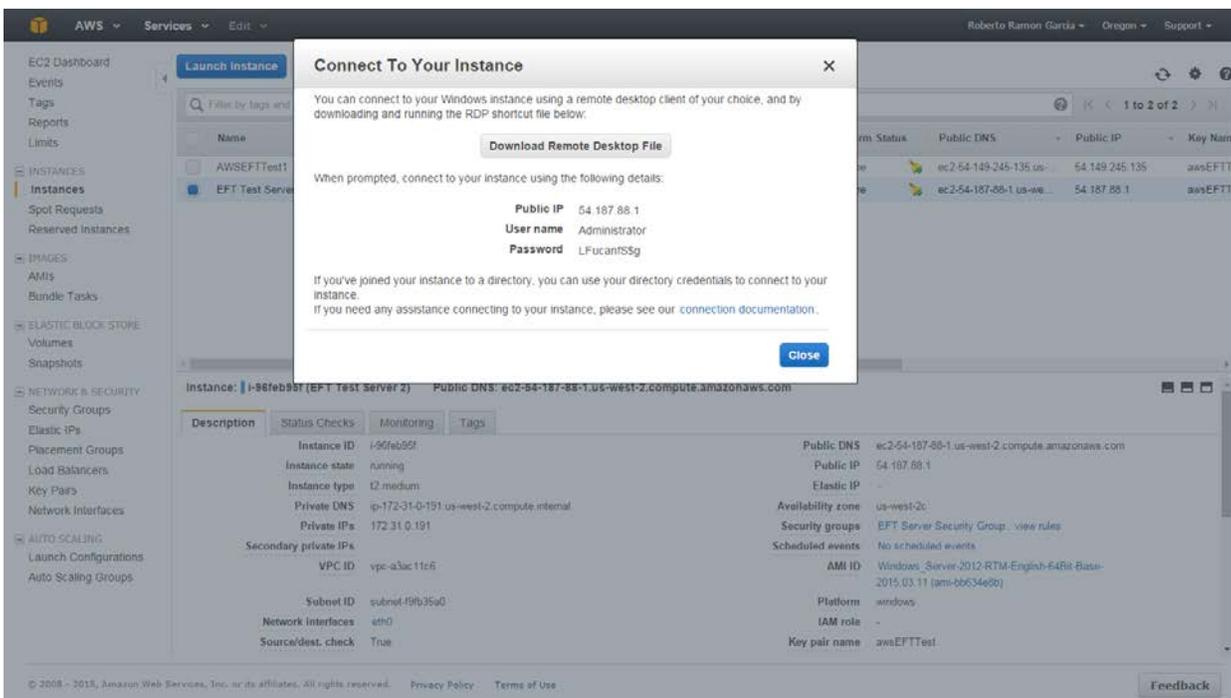
Installing EFT and other Components on your Virtual Machine

Once your virtual environment is up and running, you can copy the EFT Enterprise installer and install the product normally. It is recommended that you use the *eftserver-ent.exe* or *eftserver.exe* that provides the bundled SQL Server 2008 Express database. Do not install the version that DOES NOT provide the database. The economic impact of installing the full SQL Server Enterprise database may make using a cloud-based POC prohibitive. If you wish, you can also install the SQL Server 2008 Express Management Console, which you can download from the Microsoft website.

(http://www.microsoft.com/en-us/download/details.aspx?id=7593)