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



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3. On the EC2 Dashboard, select "Launch Instance"



 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*.



5. For the EFT Enterprise Standalone Server the most economic selection is *Microsoft Windows Server 2012 Base*.



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.

| tep 2 nazon E | 2. Choose Instance Typ Choose an Insta C2 provides a wide selection rking capacity, and give you t | ance Type of instance types optim the flexibility to choose t | e 4. Add Storage ized to fit different use of the appropriate mix of re | 5. Tag instance 6. Col cases. Instances are vin esources for your applic | tual servers that can run applicat ations. Learn more about instar | ions. They have varying combine types and how they can me | nations of CPU, memory, storage |
|------------------|---|---|---|--|---|---|---------------------------------|
| lter by: | All instance types 👻 | Current generatio | on 👻 Show/Hide C | olumns | | | |
| Current | ly selected: t2.medium (Vari | able ECUs, 2 vCPUs, 2 | 5 GHz, Intel Xeon Fam | ily, 4 GIB memory, EBS | only) | | |
| | Family | ~ Type ~ | vCPUs (j) + | Memory (GiB) ~ | Instance Storage (GB) ① ~ | EBS-Optimized Available | Network Performance ① |
| | General purpose | t2.micro Free ter eligible | 1 | 1 | EBS only | 2.23 | Low to Moderate |
| | General purpose | t2.small | (1) | 2 | EBS only | 242 | Low to Moderate |
| | General purpose | t2.medium | 2 | 4 | EBS only | | Low to Moderate |
| | General purpose | m3 medium | 1 | 3.75 | 1 x 4 (SSD) | (*) | Moderate |
| | General purpose | m3.large | 2 | 7.5 | 1 x 32 (SSD) | 122 | Moderate |
| | General purpose | m3.xlarge | 4 | 15 | 2 x 40 (SSD) | Yes | High |
| | General purpose | m3.2xlarge | 8 | 30 | 2 x 80 (SSD) | Yes | High |
| | Compute optimized | c4.large | 2 | 3.75 | EBS only | Yes | Moderate |
| | Compute optimized | c4.xlarge | 4 | 7.5 | EBS only | Yes | Moderate |
| | Compute optimized | c4.2xlarge | 8 | 15 | EBS only | Yes | High |
| | | | | | Cancel Previou | Review and Launch | Next: Configure Instance Det |

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

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| Value (255 characters maxim | um) | |
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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.

| Choose AMI | 2. Choose Instance Type 3. | Configure Instance | 4 Add Storage | 5. Tag Instance | 6. Configure Security Group | 7. Review | | | | |
|---|---|---|---------------------------------------|--|---|--|---------------------------------------|-----------------------------------|------------------------------|------------------------|
| security group I id allow Interne out Amazon EC | onfigure Security G is a set of firewall rules that co t traffic to reach your instance 2 security groups. | Froup ntrol the traffic for y , add rules that allo | our instance. On w unrestricted ac | this page, you can cess to the HTTP | n add rules to allow specific tra and HTTPS ports. You can cre | affic to reach your ins eate a new security g | tance. For exam roup or select fro | ple, if you war im an existing | it to set up a one below. | web serve Learn mor |
| | Assign a security group: | Create a new s | ecurity group | | | | | | | |
| | | Select an exist. | ing security grou | p | | | | | | |
| | Security group name: | EFT Server Secu | urity Group | | | | | | | |
| | Description: | EFT Server Secu | arity Forwards | | | | | | | |
| Type ① | | Protocol () | | | Port Range ① | | Source ① | | | |
| RDP | • | TCP | | | 3389 | | Anywhere • | 0.0.0.0/0 | | |
| Custom TCP R | ule • | TCP | | | 20-21 | | Anywhere • | 0 0 0 0/0 | | |
| Custom TCP R | ule 🔻 | TCP | | | 80 | | Anywhere * | 0.0.0.0/0 | | |
| Custom TCP R | ule 🔹 | TCP | | | 443 | | Anywhere • | 0.0.0.0/0 | | |
| Custom TCP R | ule 🔻 | TCP | | | 22 | | Anywhere • | 0.0.0.0/0 | | |
| Add Rule | | | | | | | | | | |
| A Warnin Rules wi | NG htth:source of 0.0.0.010 allow all | I IP addresses to ac | cess your instan | ce. We recommen | id setting security group rules | to allow access from | known IP addres | ses only. | | |
| | | | | | | | Cance | Previous | Review | and Laur |

9. Review your configuration

| p 7: Review Ir | Instance La | aunch | to edit changes for eac | h section. Click Launch to assign a | key pair to your instance and comp | lete the launch process. | |
|---|--|---|--|--|---|---|--|
| Improve your ins Your instances may You can also open a | stances' secur be accessible fr additional ports i | rity. Your sec om any IP add n your security | ress. We recommend the group to facilitate access | rver Security Group, is open t at you update your security group ru s to the application or service you're | the world. Uses to allow access from known IP a running, e.g., HTTP (80) for web so | addresses only. ervers. Edit security groups | |
| Your Instance co To launch an instan usage restrictions. | onfiguration is ce that's eligible | for the free us | for the free usage til age tier, check your AMI | er selection, instance type, configurati | ion options, or storage devices. Lear | rn more about <u>free usage lier</u> eligi Doo1 shoe | ibility and |
| | | | | | | | |
| MI Details | /indows Server | 2012 Base - a | mi-bb634e8b | | | | Edit |
| MI Details Microsoft Win Free Ber eligible Root Device Type | findows Server dows 2012 Standa e: ets Virtualizatio | 2012 Base - a and edition with 6 e type: hvm | i mi-bb634e8b 4-bit architecture. [English] | | | Edi | Edit t instance |
| MI Details Microsoft Win Free Ber eligible National Control Control Root Device Type Instance Type | Tindows Server dows 2012 Standa e: ebs Virtuelizatio ECUs | 2012 Base - a nd edition with 6 n type: hvm VCPUs | Imi-bb634e8b 4-bit architecture. [English] Memory (GIB) | Instance Storage (GB) | EBS-Optimized Available | Edi Network Performa | Edit t instance ance |
| MI Details Microsoft Wink Rect Device Typ Instance Type 12 medium | Andows Server dows 2012 Standa e: ebs Vittuatzato ECUs Variable | 2012 Base - a rd edition with 6 n type: twm VCPUs 2 | Memory (GIB) | Instance Storage (GB) EBS only | EBS-Optimized Available | Edit Network Performa Low to Moderate | Edit t instance |
| MI Details Microsoft Win Pres Set etigibil Microsoft Win Not Device Type Instance Type 12. medium Eccurity Groups | findows Server dows 2012 Standa e: ebs Virtualizatio ECUs Variable | 2012 Base - a rd edition with 6 n type: hvm vCPUs 2 | Imi-bb634e8b 4-bit architecture. [English] Memory (GIB) 4 | Instance Storage (GB) EBS only | EBS-Optimized Available | Edit Network Performs Low to Moderate Edit s | Edit t instance ance security gri |

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.

| Events 4 | Launch Instand | Connect | Actions * | | | | | | | | | | ÷ | ¢ 6 |
|--|-------------------------------|--|---|--|--------------------------------------|-------------------|--|--|--|--|-------------------------|--------------------|--------|---------|
| Tags | Q Fifter by tage | and attributes or p | earch by keywon | d: | | | | | | | 0 | < < 1 to | 2 of 2 | 0.01 |
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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.

| AWS - Serv | ices 🛩 Edit 🛩 | | |
|---|--|--|-------------|
| EC2 Dashboard Events 4 | Launch Instance Connect | Actions * | 0 0 0 |
| Tags | Q. Filler by tags and attributes or a | much by Keyword. | 2 of 2 2 21 |
| Limits | Name - 1 | stance ID + Instance Type + Availability Zone + Instance State + Status Checks + Alarm Status Public DNS + Public IP | - Key Nam |
| ⊟ INSTANCES | AWSEFTTest1 | 276a474 t2.medium us-west-2a 🛛 anning 🛛 2/2 checks. None 🍗 ec2-54-149-245-135.us- 54.149-245-13 | awsEFTT |
| Instances Spot Requests | EFT Test Server 2 | Connect To Your Instance X | awsEFTTi |
| Reserved Instances EI IMAGES AMIS Bundle Tasks | | You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below: Download Remote Desktop File | |
| STELASTIC BLOCK STORE | | When prompted, connect to your instance using the following details: Public IP 54,187.88.1 | |
| Snapshots | A R. C. | User name Administrator | |
| S NETWORK & SECURITY | Instance: I-96feb95f (EFT T | Password Get Password | 880 |
| Security Groups | Description Status Chec | Ruonius lalend your instance to a directory you can use your directory contracting to connect to your | |
| Placement Groups | Instance Instance sta | If you yee pamer you instance, to a unexony, you can see you unexony creationation connection documentation. If you need any assistance connecting to your instance, please see our connection documentation. 60.1 | |
| Key Pairs Network Interfaces | Instance ty Private DI Private I | Ctose 1/2c: anve: Security Group , view rules | |
| S AUTO SCALING | Secondary private IPs | Scheduled events No scheduled events | |
| Auto Scaling Groups | VPC ID | vpc-a3ac1166 MMHD Windows_Server-2012;RTM-English-64Bit Base- 2015;03:11 (am-66554e8b) | |
| | Subnet ID | subnat-t9/b35a0 Platform windows | |
| | Network interfaces | eth0 IAM rola - | |
| | Source/dest. check | True Key pair name awsEFTTest | - |
| © 2008 - 2015, Amazun Web S | ervozes, Toc. or its affiliates. All rights re | Annal Privacy Policy - Terms of Use | Feedback |

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 |
| - | FFTTest1.rdp | 3/24/2015 8:28 AM | Remote Deskton | 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.

| EC2 Dashboard | Launch Instance | Conne | ect To Your Instance | × | | 0 0 0 |
|---|----------------------|--|--|---|--|--------------|
| Tags Reports | Q. Filler by tags an | You can download | onnect to your Windows instance using a remote desk ing and running the RDP shortcut file below: | op client of your choice, and by | | o 2 of 2 🔿 🕅 |
| Limits | Name | | Download Remote Desktop | File | m Status Public DNS - Public IP | - Key Nam |
| | AWSEFTTest | | | | e 💊 ec2-54-149-245-135 us 54.149-245-1 | 35 awsEFTT |
| Instances | EFT Test Serv | When pro | mpted, connect to your instance using the following de | alls: | e 🍃 ec2-54-187-88-1.us-we 54.187.88.1 | BASEFTT |
| Spot Requests | | | Public IP 54,187,88,1 | | | |
| Reserved Instances | | | User name Administrato | r i l | | |
| SE IMAGES | | | Password LFucantSSg | | | |
| AMIS | | If you've | oined your instance to a directory, you can use your di | ectory credentials to connect to your | | |
| Bundle Tasks | | instance. | | | | |
| W ELASTIC BLOCK STORE | | ii you nee | d any assistance connecting to your instance, please s | ee our connection documentation. | | |
| Volumes | | | | (Sector | | |
| Snapshots | | | | Close | | |
| S NETWORK & SECURITY | Instance: i-96feb | ST (EFT Test | Server 2) Public DNS: ec2-54-187-88-1.us-west- | .compute.amazonaws.com | | 880 - |
| Security Groups | - | | Concernant Concerned | | | |
| | Description | | | | | |
| Elastic IPs | o composition . | RIFILIS CORCUS | instructing tags | | | |
| Elastic IPs Placement Groups | e suprov | Instance ID | i-StrebBSt | Public DNS | ec2-54-187-88-1 us-west-2 compute amazonawa.com | |
| Elastic IPs Placement Groups Load Balancers | Treatment 185 | Instance ID Instance state | i-strebst numing | Public DNS Public IP Etaste 19 | ec:2:54-197-59-1 us-west-2 compute amazonawa com 54:197-69.1 | |
| Elastic IPs Placement Groups Load Balancers Key Pairs | Company 185 | Instance ID Instance state Instance type Private DNS | 1-957eb951 Anning 12 medum 1372-33-0-191 museed-2 romude internal | Public DNS Public IP Elastic IP Availability cross | ec2-54-197-88-1 us-west-2 compute amazonawa com 54-197-88-1 | |
| Elastic IPs Placement Groups Load Balancers Key Pairs Network Interfaces | | Instance ID Instance state Instance type Private DNS Private IPs | Anning 12 medium 9-772-310-191 us-rest-2 compute internal 172 310-191 | Public DNS Public IP Elastic IP Availability zone Security arous | ec2-54-197-69-1 us-west-2 compute amazonawa.com 54-197-59-1 us-west-2c EPT Server Security Group, view rules | |
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| Elastic IPs Piacement Groups Load Balancers Key Pars Network Interfaces Launch Configurations Auto Scaling Groups | Second | Instance ID Instance ID Instance state Instance type Private DNS Private IPs My private IPs VPC ID Subnet ID | Verseburg verseburg Anning 12 metium (p-172-31-0-191 us-west-2 compute internal 172-31-0-191 vpc-abac 11c6 subret-191b/360 | Public DNS Public IP Etastic IP Availability come Security groups Scheduled events AMI ID Platform | ec2-64-197-86-1 us-west-2 compute amazonawa.com 64-197-86-1 | |
| Eliastic IPs Piacement Groups Load Balancers Key Pars Network Interfaces Auto SCADIG Launch Configurations Auto Scaling Groups | Second | Instance ID Instance ID Instance state Instance type Private DNS Private IPs vy private IPs VPC ID Subnet ID ork interfaces | Version of the second s | Public DNS Public IP Elastic IP Availability come Security groups Scheduled events AMI ID Platform IAM role | ec2-54-197-69-1 us-west-2 compute amazonaws.com 54-197-69-1 us-west-20: EPT Server Security Group: view rules No incheduled events. Windraw, Server 2012;RTM-English-EdRit Base- 2015;03:11 (am-b0534e80) windraws. | |

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)