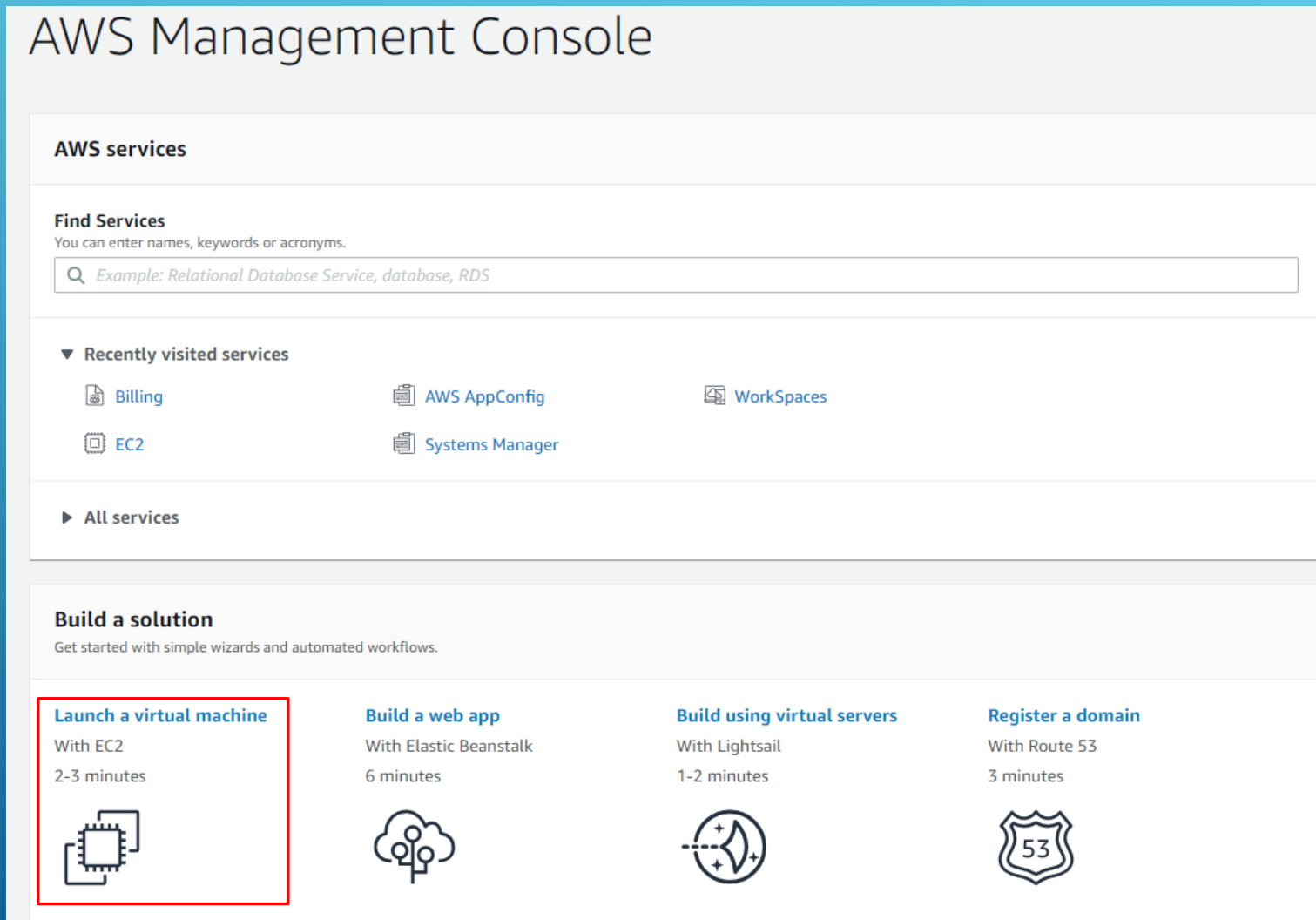





# AWS USAGE EXAMPLE

1. Go to [aws.amazon.com](https://aws.amazon.com) and sign in to the console
2. Launch a virtual machine



### 3. Choose an Amazon Machine Image (AMI) depending on your requirements: OS, Libraries, etc.

	<b>Ubuntu Server 18.04 LTS (HVM), SSD Volume Type</b> - ami-003634241a8fcdec0 (64-bit x86) / ami-003b90277095b7a42 (64-bit Arm) Free tier eligible Ubuntu Server 18.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical ( <a href="http://www.ubuntu.com/cloud/services">http://www.ubuntu.com/cloud/services</a> ). Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes	<b>Select</b> <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
	<b>Ubuntu Server 16.04 LTS (HVM), SSD Volume Type</b> - ami-008c6427c8facbe08 (64-bit x86) / ami-05dff67faab67bc29 (64-bit Arm) Free tier eligible Ubuntu Server 16.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical ( <a href="http://www.ubuntu.com/cloud/services">http://www.ubuntu.com/cloud/services</a> ). Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes	<b>Select</b> <input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
 Windows Free tier eligible	<b>Microsoft Windows Server 2019 Base</b> - ami-0c1ee26e489972734 Microsoft Windows 2019 Datacenter edition. [English] Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes	<b>Select</b> 64-bit (x86)
	<b>Deep Learning AMI (Ubuntu 18.04) Version 29.1</b> - ami-037176e5332a04eb6 MXNet-1.6.0, Tensorflow-2.1.0 & 1.15.2, PyTorch-1.4.0 & 1.5.0, Neuron, & other frameworks, NVIDIA CUDA, cuDNN, NCCL, Intel MKL-DNN, Docker, NVIDIA-Docker & EFA support. For fully managed experience, check: <a href="https://aws.amazon.com/sagemaker">https://aws.amazon.com/sagemaker</a> Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes	<b>Select</b> 64-bit (x86)
	<b>Deep Learning AMI (Ubuntu 16.04) Version 29.1</b> - ami-03bcb4280a671c8a1 MXNet-1.6.0, Tensorflow-2.1.0 & 1.15.2, PyTorch-1.4.0 & 1.5.0, Elastic Inference, Neuron, & other frameworks, NVIDIA CUDA, cuDNN, NCCL, Intel MKL-DNN, Docker, NVIDIA-Docker & EFA. For fully managed experience, check: <a href="https://aws.amazon.com/sagemaker">https://aws.amazon.com/sagemaker</a> Root device type: ebs    Virtualization type: hvm    ENA Enabled: Yes	<b>Select</b> 64-bit (x86)
 Amazon Linux	<b>Deep Learning AMI (Amazon Linux) Version 29.1</b> - ami-05aaf2e000366e54a MXNet-1.6.0, Tensorflow-2.1.0 & 1.15.2, PyTorch-1.4.0 & 1.5.0, Elastic Inference, & other frameworks, NVIDIA CUDA, cuDNN, NCCL, Intel MKL-DNN, Docker, NVIDIA-Docker & EFA support. For fully managed experience, check: <a href="https://aws.amazon.com/sagemaker">https://aws.amazon.com/sagemaker</a>	<b>Select</b> 64-bit (x86)

Examples of AMIs

## 4. Choose an Instance Type

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ	IPv6 Support ⓘ
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes

Examples of instance  
types

4. For now we can just accept default parameters on Configure Instance Details and Add Storage steps
5. Use tags to provide additional information about our server

### Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ	Volumes ⓘ	
<input type="text" value="Name"/>	<input type="text" value="UbuntuServer"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="✕"/>
<input type="text" value="Type"/>	<input type="text" value="MachineLearning"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="✕"/>
<input type="text" value="Purpose"/>	<input type="text" value="Testing"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="✕"/>

(Up to 50 tags maximum)

6. Review Instance and click “Launch”

7. Now choose "Create a new key pair"
8. Create a name for a key pair and memorize it
9. Download Key Pair

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.


Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair name

TestKey

Download Key Pair



You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

Launch Instances

If you use Ubuntu:

10. You can run ssh connection using terminal. Use username "ubuntu" if you chose Ubuntu AMI

### Connect to your instance

Connection method

☒ A standalone SSH client ⓘ  
☐ Session Manager ⓘ  
☐ EC2 Instance Connect (browser-based SSH connection) ⓘ

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))

2. Locate your private key file (TestKeyPair.pem). The wizard automatically detects the key you used to launch the instance.

3. Your key must not be publicly viewable for SSH to work. Use this command if needed:  

```
chmod 400 TestKeyPair.pem
```

4. Connect to your instance using its Public DNS:  

```
ec2-18-191-207-141.us-east-2.compute.amazonaws.com
```

Example:

```
ssh -i "TestKeyPair.pem" ubuntu@ec2-18-191-207-141.us-east-2.compute.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

7

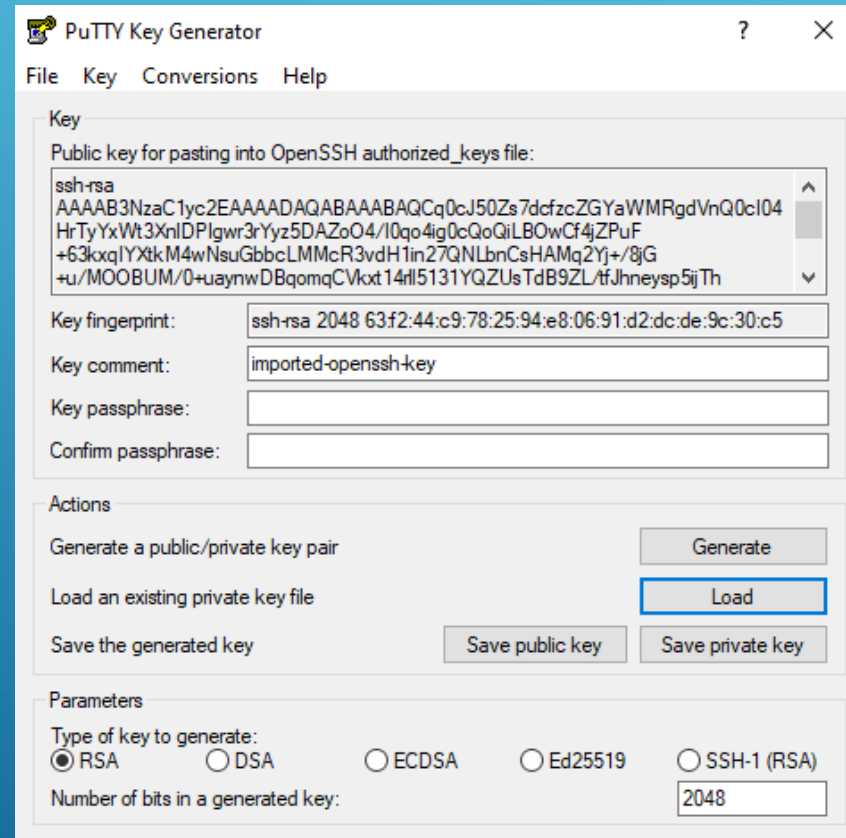
If you use Windows:

10. Download and install PuTTY

(<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>)

11. Open PuTTYgen and load .pem key file

12. Choose “Save private key” option. The saved key should have the same name as Key Pair name from paragraph 9





13. Press “View instances”

14. Right click on instance you want to use and choose “Connect”

15. Copy address of the instance

Connect to your instance

Connection method

☒ A standalone SSH client

☐ Session Manager

☐ EC2 Instance Connect (browser-based SSH connection)

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))

2. Locate your private key file (TestKeyPair.pem). The wizard automatically detects the key you used to launch the instance.

3. Your key must not be publicly viewable for SSH to work. Use this command if needed:  

```
chmod 400 TestKeyPair.pem
```

4. Connect to your instance using its Public DNS:  

```
ec2-18-221-132-57.us-east-2.compute.amazonaws.com
```

Example:

```
ssh -i "TestKeyPair.pem" ubuntu@ec2-18-221-132-57.us-east-2.compute.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

9

16. Open PuTTY and paste address of the machine
17. Open Connection -> SSH -> Auth in PuTTY and choose .ppk file you saved
18. Click "Open" to connect to the machine. Use username "ubuntu" if you chose Ubuntu AMI

