# Move EC2 Instance

Jun 2017

This page is not complete, please check back in a short time for the full guide.

## Introduction

There are a couple of reasons you might want to move your EC2 Instance. The first is that you want to host your EC2 Instance in a location closest to your users. The second is that (like me) you setup your first EC2 instance, got it all running, then realised that your server is several thousand miles away, so now you want it hosted in your region.

There are probably more reasons that that, but these are the main two that spring to mind. This tutorial shows you how to move your EC2 instance (or indeed just create a local copy that will be useful for redundancy purposes) to another zone.

Please bear in mind, if you are using the Free Tier system, that you will need enough available space (you get 30GB free) and that you will be running two instances, albeit for a short time, so this could potentially cost you a few pennies, if we we are talking about less than an hour it might not incur any charges.

## **Move EC2 Instance**

Login to the AWS Console and navigate to your EC2 Instance.

🎁 Services -	R	esource Groups	iv <b>%</b>										۵	MR AJ WALKER 👻	Ohio 👻	Support +
EC2 Dashboard	<b>^</b>	Launch Instan	ce Connect	Actions *												0
Tags	12	Q. Filter by tag	is and attributes or se	earch by keyword	-									ØK	< 1 to 1 c	f1 > >
Reports		cq I mor by the														
Limits		Name	<ul> <li>Instance IE</li> </ul>	<ul> <li>Instance Type</li> </ul>	Availability Zone -	Instance State ~	Status Checks ~	Alarm Status	Public DNS (IPv4)	<ul> <li>IPv4 Pt</li> </ul>	Iblic IP - IPv6 IF	Ps - Key Name	<ul> <li>Monitoring</li> </ul>	<ul> <li>Launch Time</li> </ul>	Ŧ	Security Gro
INSTANCES			i-033c7536f	f6bd64c33 t2.micro	us-east-2c	running	2/2 checks	None 为	ec2-52-15-234-144.us	52.15.2	34.144 -	WildWalker	disabled	June 15, 2017 at	5:07:29 PM	launch-wizari
Instances																
Spot Requests																
Reserved Instances																
Dedicated Hosts																
IMAGES																
AMIs																
Bundle Tasks																
ELASTIC BLOCK																
Volumes																
Snapshots																
NETWORK & SECURITY																
Security Groups																
Elastic IPs																
Placement Groups																
Key Pairs																
Network Interfaces																
E LOAD BALANCING																
Load Balancers																
Target Groups		Instance #1.01	2-752666467 22	Dublic DME:2 52 45	224.444											
AUTO SCALING		instance:	33C/336T6D064C33	FUDIIC UNS: ec2-52-15	239-144.US-east-2.com	pute.amazonaws.c	om									
Launch Configurations		Description	Status Checks	Monitoring Tags												
Auto Scaling Groups			Instance ID	i-033c7536f6bd64c33					Pub	ic DNS (IPv4)	ec2-52-15-234-144.u	s-east-2.compute.amazonaw	s.com			
- SYSTEMS MANAGER			Instance state	running						Pv4 Public IP	52.15.234.144					
SERVICES			Instance type	t2.micro						IPv6 IPs	-					
Run Command			Elastic IPs							Private DNS	ip-172-31-35-63.us-e	ast-2.compute.internal				
State Manager			Availability zone	us-east-2c	and as loss				Connect	Private IPs	1/2.31.35.63					
Automations			Scheduled events	No scheduled events	nu rules				Secondi	VPC ID	vpc.dc8he4h5					
Patch Compliance			AMLID	amzn-ami-hym-2017 03 0 2	0170417-x86_64-op2 (ami-	4191b524)				Subnet ID	subnet-c939f184					
Patch Baselines			Platform	-					Netw	ork interfaces	eth0					
	*								100		-					¥
Feedback Q	Englis	h										2008 - 2017, Amazon Web Serv		All rights reserved. Pri	vacy Policy	Terms of Use

In the example above it can be see that my EC2 Instance is in the Availability Zone (AZ) us-east-2c. I am in England, so I really need a closer AZ to where I am.

The reality is that we can't move the EC2 Instance, we need to make a copy, then use that to create a new EC2 instance in a different AZ. The new EC2 Instance will be an exact copy of the original, so everything will work exactly the same as it did before, only a little faster.

Amazon Machine Image or AMI.

To create an AMI, select the Actions button.

1/13

Services V	Resource Groups 🗸 😽										4	MR AJ WALKER * Ohio	* Sup	pport *
EC2 Dashboard Events	Launch Instance Connect	Actions A											÷	¢ Ø
Tags Reports	Q. Filter by tags and attributes o	Connect Get Windows Password										0 K < 1	to 1 of 1	> >
Limits	Name - Instance	Launch More Like This	- Availability Zone -	Instance State -	Status Checks ~	Alarm Status	Public DNS (IPv4)	<ul> <li>IPv4 Public IP</li> </ul>	<ul> <li>IPv6 IPs</li> </ul>	<ul> <li>Key Name</li> </ul>	- Monitoring	- Launch Time	- 1	Security Gro
INSTANCES	i-033c75	Instance Settings	us-east-2c	running	2/2 checks	None 🍃	ec2-52-15-234-144.us	52.15.234.144	-	WildWalker	disabled	June 15, 2017 at 5:07:29	PM	aunch-wizari
Instances		Image 🕨 🕨	Create Image											
Spot Requests		Networking		nce store AMI)										
Reserved Instances		CloudWatch Monitoring +												
Dedicated Hosts														

From the pop out list select Image then Create image.

The Create Image page will open.

Create Image					×
Instance ID (i) i-033c7536f6bd64c33		_			
Image name (i) webSvrBackup Image description (i) Image to move site No reboot (i)					
Volume Type     Device     Snapshot     Size       i     i     Snapshot     i	Туре 🕕	ICPS	Throughput (MB/s) ()	Delete on Termination	Encrypted
Root /dev/xvda snap- 05587b52a77fbbi 6b <sup>8</sup> Magnetic		▼ N/A	N/A		Not Encrypted
Add New Volume					
Total size of EBS Volumes: 8 GiB When you create an EBS image, an EBS snapshot will also be cre	eated for each of the abov	ve volumes.			
				Cance	Create Image

Enter the following information:

**Image name:** A simple name to identify the image. **Image description:** A description for the image. **No Reboot:** If you tick this, the Image may have issues, best to allow reboot if possible.

Size GiB: Size of storage for image (I went with the default) Volume Type: Magnetic, don't need SSD for simple storage.

Select Create Image.

WARNING!: Now I know I go on about this, but the space you use, might not be free. Remember you get 30GB free. If you exceed that you start to pay per hour. Even if you do exceed it, you will finish this process in about 20-30 minutes, and can delete this AMI, so your costs again should be no more than a few pence, if anything at all.

When you select the Create Image button, you will see a confirmation window.

0	Create Image request received.	
	View pending image ami-05240460	
	Any snapshots backing your new EBS image can be managed on the snapshots screen after successful image creation.	

Just accept the message by selecting Close.

The AMI Status will change to Pending.

🎁 Services 🗸	v Resource Groups v 🖡	△ MR AJ WALKER - Ohio - Support -
EC2 Dashboard Events	Launch Actions V	<del>은</del> 🕸 🕖
Tags	Owned by me v Q search: ami-05240400  Add lifter	
Limits	Name      AMI Name      AMI ID      Source      Owner      Visibility      Status      Creation Date      Platform      Root Device 1     Virtualization	
INSTANCES	😯 webSvrBackup ami-05240460 303216744559 Private pending July 26, 2017 at 2:48:58 PM Other Linux ebs hvm	
Instances		
Spot Requests		
Reserved Instances		
Dedicated Hosts		
IMAGES		
AMIs		
Bundle Tasks		

For my EC2 Instance, the AMI creation took around 5 Minutes. I have an EC2 that has an 8Gb Magnetic store, this store is about 80% full.

After the AMI Creation is complete, the status will change to available.

🏹 Services 🗸	Resource Group	5 v 🕇										٩	MR AJ WALKER ¥ OF	io • S	Support 👻	
EC2 Dashboard	Launch Ad	ctions ¥												Ð		9
Tags	Owned by me	e ♥ Q, search : ami-05	240460 🔿 Add fi	ilter			-						Ø K <	1 to 1 of	f1 > >	
Limits	Name	- AMI Name -	AMI ID -	Source	Owner	- Visibility	Status	<ul> <li>Creation Date</li> </ul>	· Platform	<ul> <li>Root Device 1</li> </ul>	Virtualization -					1
INSTANCES		webSvrBackup	ami-05240460	303216744559/	303216744559	Private	available	July 26, 2017 at 2	48:58 PM Other Lin	ux ebs	hvm					
Instances							-									
Spot Requests																
Reserved Instances																
Dedicated Hosts																
IMAGES																
AMIs																
Bundle Tasks																

This is the back process complete.

Next we need to make the AMI available in our new region (AZ).

🎁 Services 🗸	Re	source Gr	oups 🗸 🛧										۵	MR AJ WALKER + Ohio +	Support *	
EC2 Dashboard Events	1	Launch	Actions												0 Ø	0
Tags Reports		Owned b	Spot Request	Add fit	ter									Ø K < 1 to	o1of1 > >∣	l.
Limits		Nan	Deregister Register New AMI	AMI ID -	Source -	Owner -	Visibility	- Status	<ul> <li>Creation Date</li> </ul>	- Platform	<ul> <li>Root Device 1-</li> </ul>	Virtualization ~				
INSTANCES			Copy AMI	mi-05240460	303216744559/	303216744559	Private	available	July 26, 2017 at 2:48:58	M Other Linux	ebs	hvm				
Instances			Modify Image Permissions													
Spot Requests			Add/Edit Tags Modify Root Volume Setting													
Reserved Instances			Modily Boot Volume Setting													
Dedicated Hosts																
IMAGES																
AMIs																
Bundle Tasks																

Select Actions, then Copy AMI.

The Copy AMI page will open.

Сору АМІ		×
AMI ami-05240460 will be copi	ed to a new AMI. Set the new AMI settings below.	
Destination region*	EU (London)	
Name	webSvrBackup	
Description	[Copied ami-05240460 from us-east-2] webSvrBackup	
Encryption	Encrypt target EBS snapshots (i)	
	Cancel Copy AM	

We have to make some initial choices here:

**Destination Region:** This is the new AZ for your EC2 Instance (I want it in London) **Name:** A name to identify the copied AMI (you will need this, so make it obvious)

Select Copy AMI.

A Copy AMI Confirmation window will open.

Сору АМІ	×
AMI ami-05240460 will be copied to a new AMI. Set the new AMI settings below.	
Destination region* EU (London)	
Name webSvrBackup	
Description [Copied ami-05240460 from us-east-2] webSvrBackup	
Encryption Encrypt target EBS snapshots (i)	
Cancel	y AMI

Select Done.

This also took around 5 minutes to complete for my EC2 Instance.

Before you continue, it is very important to ensure that you are now working in the correct AZ (Availability Zone).

2024/05/20 10:38

👔   Services γ   Resource Groups γ   🛊 🗘 🗘	AJ WALKER 👻	London ·
EC2 Dashboard		
Events 4		
lags Owned by me v Q AMI ID: ami-e916078d ⊗ Add filter	0	K < 11
Reports		

Events		€• ¥ Ø
Tags	Owned by me v Q AMI ID: ami-915078d	
Limits	Name      AMI Name      AMI ID      Source      Owner      Visibility     Status      Creation Date      Platform      Root Device 1     Virtualization	
INSTANCES	webSvrBackup ami-e916078d 303216744559/ 303216744559 Private available July 26, 2017 at 3.38.35 PM Other Linux ebs hvm	
Instances		
Spot Requests		
Reserved Instances		
Dedicated Hosts		
IMAGES		
AMIs		
Bundle Tasks		

In the top right of the web interface, ensure you see your zone.

Before you continue, ensure that the status for the AMI is available. What you have just done is to copy the AMI you created in your original AZ, and put it in the AZ where you want the new EC2 Instance to reside.

#### when the AMI is available, select Actions.

🎁 Services 🗸	Resource Groups 🐱 🔭	🗘 MR AJ WALKER	R 👻 London 👻 Support 👻
EC2 Dashboard A	Launch Actions		<del>ତ</del> ବ ଡ
Tags	Owned Lauron dred Add filter		
Limits	Nam Deregister     AMI ID      Source      Owner      Visibility      Status      Creation Date      Platform      Root Device 1     Vin	rtualization -	
INSTANCES	Copy AMI ami-e916078d 303216744559/ 303216744559 Private available July 26, 2017 at 3.38.35 PM Other Linux ebs hvm	m	
Instances	Modify Image Permissions		
Reserved Instances	work to read the setting Modify Book Volume Setting		
Dedicated Hosts			
IMAGES			
AMIS			
Instances Spot Requests Reserved Instances Dedicated Hosts IMAGES AMIS Bundle Tasks	Modify Image Parnisolons AddEdt Taga Modify Boot Volume Setting		

From the menu, select Launch.

What launch does, it to take you through an identical process to when you create a new EC2 Instance.

Ũ	Services ~ Resource Groups ~	*						ondon - Support -
1. Choo	se AMI 2. Choose Instance Type 3. Config	ure Instance 4. Add Stora	ige 5. Add Tags 6. Configu	re Security Group 7. Review				
Step Amazon for your Filter by Curren	2: Choose an Instance Typ EC2 provides a wide selection of instance type applications. Learn more about instance types : All instance types  Current gr type selected: 12 micro (Variable ECUs, 1 vCP	De es optimized to fit different s and how they can meet y eneration  Show/Hi Us, 2.5 GHz, Intel Xeon Fa	t use cases. Instances are virtual iour computing needs. ide Columns amily, 1 GiB memory, EBS only)	servers that can run applications	. They have varying combinations of CPU, r	nemory, storage, and networking capacity, ar	nd give you the flexibility to choose the app	ropriate mix of resources A
	Family	т Туре т	vCPUs (i) -	Memory (GiB) ~	Instance Storage (GB) (i) -	EBS-Optimized Available (i) -	Network Performance (j)	- IPv6 Support (i) -
	General purpose	t2.nano	1	0.5	EBS only	2	Low to Moderate	Yes
	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes
	General purpose	m4.4xlarge	16	64	EBS only	Yes	High	Yes
	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit	Yes
	General purpose	m4.16xlarge	64	256	EBS only	Yes	20 Gigabit	Yes
• Fa	edback Q English					Cancel Previou	IS Review and Launch Next: Co	nfigure Instance Details

Chose an instance type, select t2micro (free tier) and then select Next: Configure Instance Details.

**Configure Instance Details.** 

🎁 Services 🗸 Resource	Groups	v 🖈	4	MR AJ WALKER 👻 🛛 I	ondon 🖌 Si	upport 🗸
1. Choose AMI 2. Choose Instance Type	3. Con	Ifigure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review				
Step 3: Configure Instan Configure the instance to suit your require	nce De ements. Yo	tails ou can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.				
Number of instances	(1)	1 Launch into Auto Scaling Group ()				
Purchasing option	()	Request Spot Instances				
Network	(i)	vpc-5086f39 (default) • Create new VPC				
Subnet		No preference (default subnet in any Availability Zon» • Create new subnet				
Auto-assign Public IP		Use subnet setting (Enable)				
IAM role	(1)	None   C Create new IAM role				
Shutdown behavior	(i)	Stop 🔹				
Enable termination protection	(1)	Protect against accidental termination				
Monitoring	(1)	Enable CloudWatch detailed monitoring Additional charges apply.				
Tenancy	()	Shared - Run a shared hardware instance   Additional charges will apply for dedicated tenancy.				
Advanced Details						
		Cancel Pre	vious	Review and Launcl	Next: Ad	d Storage
🗨 Feedback 🔇 English		© 2008 - 2017, Amazon Web Services, Inc. or its	affiliates.	All rights reserved. Pri	racy Policy Te	erms of Use

Unless you have a good reason, there are no changes required here. Select Next: Add Storage.

## Add Storage.

T Services	<ul> <li>Resource</li> </ul>	Groups 🗸 🚯							l l			A M	R AJ WALKER 👻 I	ondon 👻	Support 🗸
1 Cheere AMI 2 Cl	hoose Instance Tuns	2 Configure Instance	4 Add Storage	5 Add Tone 6	Configure Security Group	7 Review						4			
1. Choose Anni 2. Cr	10050 Instance Type	3. Configure instance	4. Add Storage	5. A00 Tags 0. v	Johngure Security Group	7. Review									
Step 4: Add S Your instance will be lar	unched with the fo	ollowing storage device s	settings. You can atf	tach additional EBS v	olumes and instance store	volumes to your in	stance, or								
edit the settings of the r storage options in Ama	oot volume. You c izon EC2.	can also attach additional	I EBS volumes after	r launching an instand	e, but not instance store v	volumes. Learn mo	re about								
Volume Type (i)	Device (j)	Snapshot (j)	Size (GiB) (j)	Volume Type (i	IOP	i Through (MB/s)	Dele	te on Termination (i)	Encrypted (i)						
Root	/dev/xvda	snap- 0bd301e0caf1a582a	8	Magnetic	▼ N/A	N/A	×		Not Encrypted						
Add New Volume				<u> </u>						1					
				<u> </u>											
General Purpose ( most applications a	SSD) volumes pro and also deliver a	ovide the ability to burst t	to 3000 IOPS per vo	plume, independent of	f volume size, to meet the Purpose (SSD)	performance need	s of								
Free tier eligible cu	istomers can get i	up to 30 GB of EBS Gen-	eral Purpose (SSD)	or Magnetic storage.	Learn more about free us	sage tier eligibility a	ind								
usage restrictions.															
l															
											Cancel	Previous	Review and Lau	nch Ne	xt: Add Tags
Eeedback	English								© 2008 - 2017 J	amazon Web S	ervices Inc. or	its affiliates. All	rights reserved Prin	vacy Policy	Terms of Use

I normally accept the defaults here, but I do change from SSD to Magnetic. Select Next: Add Tags.

Add Tags.

🧊 Services 🗸 Resource Groups 🗸 🔭			⚠ MR AJ WALKER ▼ London ▼ Support ▼
1. Choose AMI 2. Choose Instance Type 3. Configure Instance	4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review		
Step 5: Add Tags A tag consists of a case-sensitive key-value pair. For example, you 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	could define a tag with key = Name and value = Webserver. ut tagging your Amazon EC2 resources.		
Key (127 characters maximum)	Value (255 characters maximum)	Instances $(i)$ Volumes $(i)$	
	This resource currently has no tags		
	Choose the Add tag button or click to add a Name tag. Make sure your IAM policy includes permissions to create tags.		
Add Tag (Up to 50 tags maximum)			
			Cancel Previous Review and Launch Next: Configure Security Group
🗨 Feedback 🔇 English		8 2008 - 201	7, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Nothing to do here, select Next:Configure Security Group.

### **Configure Security Group**

🎁 Services 🗸 Resource Group	os ∽ 1 <b>*</b>		🗘 MR AJ WALKER 👻 London 👻 Supp	oort ≁
1. Choose AMI 2. Choose Instance Type 3.	Configure Instance 4. Add Storage 5. Add Tags 6. Con	igure Security Group 7. Review		
Step 6: Configure Security C A security group is a set of firewall rules that con HTTP and HTTPS ports. You can create a new	Group trol the traffic for your instance. On this page, you can add ru security group or select from an existing one below. Learn mo	les to allow specific traffic to reach your instance. For example, if you want to set up re about Amazon EC2 security groups.	a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access	to the
Assign a security group:	Create a new security group			
	Select an existing security group			
Security group name:	launch-wizard-1			
Description:	launch-wizard-1 created 2017-07-26T15:53:03.138+01:0			-
Туре ()	Protocol (j)	Port Range (j)	Source ()	
SSH T	TCP	22	Custom • 0.0.0/0	8
HTTP Y	TCP	80	Custom • 0.0.0.0/0, ::/0	۲
Warning Rules with source of 0.0.0.00 allow	all IP addresses to access your instance. We recommend set	ing security group rules to allow access from known IP addresses only.		
			Cancel Previous Review and L	Launch

Here we have to open any ports that we were using for the instance we copied earlier. I was using port 80 as my EC2 Instance was a web server.

Add any relevant ports then select Review and Launch.

You will get a warning about storage.

oot from General Purpose (SSD)	×
General Purpose (SSD) volumes provide the ability to burst to 3000 IOPS per volume, independent of volume size, to meet the performance needs of most applications and also deliver a consistent baseline of 3 IOPS/GiB.	
Make General Purpose (SSD) the default boot volume for all instance launches from the console going forward (recommended).	
Make General Purpose (SSD) the boot volume for this instance.	
Continue with Magnetic as the boot volume for this instance.	
Free tier eligible customers can get up to 30GB of General Purpose (SSD) storage.	
Don't show again	ĸt

Because we selected magnetic, we see this page. I have been using magnetic for a few weeks and have not yet incurred any costs.

#### Select Next.

After all the settings pages you will see a **confirmation page**.

Û	Services - R	esource Grou	ps v l¥								🗘 🛛 MR AJ WALKER 👻	London 👻	Support 👻
1. Ch	oose AMI 2. Choose Ins	stance Type 3.	Configure Instanc	ce 4. Add Storage 5.	Add Tags 6. Configur	e Security Group	7. Review						
Ste	o 7: Review Instance lat	stance La	u <b>nch</b> u can go back to	edit changes for each set	ction. Click Launch to a	ssign a key pair t	o your instance and complete the lau	nch proces	55.				
4	Your instances may You can also open a	istances' sec be accessible fi additional ports i	curity. Your se rom any IP addr in your security	ecurity group, launch ress. We recommend that group to facilitate access t	n-wizard-1, is open you update your securit o the application or serv	to the world. y group rules to a rice you're runnin	allow access from known IP addresses g, e.g., HTTP (80) for web servers. E	s only. idit security	r groups				
<b>-</b> A	VI Details												Edit AMI
	A webSvrBacky [Copied ami-052 Root Device Type:	up - ami-e9160 240460 from us-e ebs Virtualization	9 <b>78d</b> ast-2] webSvrBae type: hvm	ckup									
▼ In	stance Type											Edit ins	tance type
	Instance Type	ECUs	VCPUs	Memory (GIB)	Instance Storage (C	3B)	EBS-Optimized Available	Ne	etwork Performance				
	t2.micro	Variable	1	1	EBS only		-	Lov	w to Moderate				
• S	ecurity Groups											Edit secu	rity groups
s	ecurity group name escription	launch-wi launch-wi	zard-1 zard-1 created 2	2017-07-26T15:53:03.138	+01:00								
	Туре 🕕		Prot	tocol (j)	Po	ort Range (i)	Sour	rce (j)					
	SSH		TCP		21	2	0.0.0	0.0/0					
	HTTP		TCP		80	)	0.0.0	0.0/0					
	HTTP		TCP		80	)	::/0						
► In	stance Details											Edit insta	nce details
I S	orage											F	dit storage
. 0												_	
											Canc	el Previou:	Launch
	Feedback 🥥 Englis	h							© 2008 - 2	2017, Amazon Web Services, Inc. or its	affiliates. All rights reserved.	Privacy Policy	Terms of Use

## Select Launch.

Because this is a new EC2 Instance, we need to create a new Key Pair.

Select an existing key pair or create a new key pair ×
A key pair consists of a <b>public key</b> that AWS stores, and a <b>private key file</b> 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
wiki.aws.eu
Download Key Pair
You have to download the <b>private key file</b> (*.pem file) before you can continue. <b>Store</b> it in a secure and accessible location. You will not be able to download the file again after it's created.
Cancel Launch Instances

Select Create a new key pair and enter a Key pair name.

Select Download Key Pair. (Don't lose the key, you will permanently lose access to your EC2 Instance.)

Select Launch Instances.

If you check the status of your EC2 Instance, you will see the following:

🎁 Services 🗸	Re	source Groups 🗸	*											Δ	MR AJ WALKER 👻 🗌 I	London 👻	Support ×	
EC2 Dashboard Events	•	Launch Instance	Connect Actions	,												÷		9
Tags		Q, Filter by tags and	attributes or search by key	word											ØK	< 1 to 1 c	f1 > >	
Reports Limits		Name -	Instance ID *	Instance Type 👻	Availability Zone 🗸	Instance State ~	Status Checks 👻	Alarm Status	Public	DNS (IPv4)	IPv4 Public IP	<ul> <li>IPv6 IPs</li> </ul>	- Key Name	- Monitoring	<ul> <li>Launch Time</li> </ul>	Ŧ	Security G	rc
■ INSTANCES			i-07febd2aa5e15820b	t2.micro	eu-west-2a	running	2/2 checks	None	≽ ec2-35-	176-197-188.eu	35.176.197.188		wiki.aws.eu	disabled	July 26, 2017 at 3	:55:55 PM	launch-wiza	an I
Instances																		

The Availability Zone (AZ) has now changed to the region you selected. Your IP will also have changed, as IPs can't be moved between AZs you will have to update your DNS settings, also if you use Elastic IP Addresses, you will have to recreate new ones for this AZ.

## The Original EC2 Instance

We didn't actually move the EC2 Instance, we simply made a backup, copied the backup to a new AZ and created a new EC2 Instance from that backup.

What this means is that the EC2 Instance that you originally had is still there, and if you left it running, it is still running and potentially costing you money.

From the dashboard, select the AZ where your original EC2 Instance was created (US East (Ohio) in my case.)

🧊 Services 🗸	Re	source Groups 🗸	*											۵	MR AJ WALKER 👻	London +	Supp	port v
EC2 Dashboard Events	•	Launch Instance	Connect Actions *	•											US East (N. Virg US East (Ohio)	inia)	o	¢ 0
Tags Reports		Q. Filter by tags and a	attributes or search by key	word	Ausilability Zone -	Instance State -	Status Chastes	Alasm State		Dublic DNC (Dub)	IDud Dublia ID	- 10xx2 10x	- Key Name	- Menitering	US West (N. Cal	ifornia)	T of 1	> >
INSTANCES			i-07febd2aa5e15820b	t2.micro	eu-west-2a	<ul> <li>running</li> </ul>	<ul> <li>2/2 checks</li> </ul>	None	>	ec2-35-176-197-188.eu	35.176.197.188	* IPV0 IPS	wiki.aws.eu	disable	Canada (Central	)	. la	unch-wizar
Instances															EU (Ireland)			

You can't see instances in different AZs on one page unfortunately, so if you have co-located EC2 Instances, you have to navigate between

AZs.

So here we are, back at the original AZ where our original EC2 Instance is.

🎁 Services 🗸	Resou	rce Groups	* *										Ą	MR AJ WALKER + Ohio +	- Support -
EC2 Dashboard Events	, L	unch Instance	Connect Action	s *											<b>२ ♦ 0</b>
Tags		) Filter by tags a	and attributes or search by	keyword										⊘ K < 1 t	o1of1 > >
Limits		Name	<ul> <li>Instance ID</li> </ul>	Instance Type	Availability Zone -	Instance State -	Status Checks ~	Alarm Status	Public DNS (IPv4)	<ul> <li>IPv4 Public IP</li> </ul>	- IPv6 IPs	- Key Name	- Monitoring	- Launch Time	- Security Gro
INSTANCES		)	i-033c7536f6bd64c	3 t2.micro	us-east-2c	running	2/2 checks	None	ec2-52-15-234-144.us	52.15.234.144		WildWalker	disabled	June 15, 2017 at 5:07:29 Pl	M launch-wizar
Instances															

We have to stop this instance for two reasons. It is using a server, so this is incurring a cost, yes we could just stop it and leave it BUT, it is also consuming hard disk space. Even worse is that we are using a lot of space now because of the copy process, consider this:

Original EC2 Instance is using...8GB The AMI we created is using....8GB The AMI copy is using......8GB The new EC2 Instance is using...8GB

Total.....32GB

Our free allowance is 30GB, so we need to do some cleaning up.

We need to do the following:

Stop the old EC2 Instance. Delete the old EC2 Instance. Delete the AMI Image. Delete the AMI Copy Image.

#### Stop the old EC2 Instance

From the console, navigate to the old EC2 Instance.

🎁 Services 🗸	R	esource Group	s v . 1×											¢	MR AJ WALKER + Ohio	Support +
EC2 Dashboard Events Tags	Î	Launch Instar	ce Con	ect Act	ctions 🔺										Ø K < 11	<b>관 후 @</b>
Reports Limits	L	Name	- Ins	tance I a	Set Windows Password aunch More Like This Instance State )	<ul> <li>Availability Zone</li> <li>Start</li> </ul>	<ul> <li>Instance State -</li> </ul>	Status Checks ~	Alarm Statu	s Public DNS (IPv4)	<ul> <li>IPv4 Public IP</li> <li>52 15 224 144</li> </ul>	- IPv6 IPs	<ul> <li>Key Name</li> <li>WildWalker</li> </ul>	<ul> <li>Monitoring</li> </ul>	Launch Time  June 16, 2017 at 5-07-20 B	<ul> <li>Security Gr</li> </ul>
Instances Spot Requests	L		10.	In In N	nstance Settings ) mage ) letworking )	Stop Reboot Terminate	• tuning	2/2 Chiefes	None	602-02-10-204-144.05-	02.10.234.144		THUTTERE	uisabieu	Sure 13, 2017 at 3.07.291	autorenza
Dedicated Hosts					Loudvvatch Monitoring											

Select Actions, then Instance State then Stop.

You will see a warning page about stopping an Instance.



#### Select Yes, Stop.

It might take a minute or two, but the instance will stop.

🎁 Services 🗸		R 👻 Ohio 👻 Support 👻
EC2 Dashboard Events	▲ Launch Instance Connect Actions ♥	ତ <b>କ ଡ</b>
Tags	Q. Filter by tags and attributes or search by keyword	< < 1 to 1 of 1 > >
Reports Limits	Name      Instance ID     A Instance Type      Availability Zone     Instance State     Status Checks     Alarm Status     Public DNS (IPv4)     IPv4 Public IP     IPv6 IPs     Key Name     Monitoring     Launch Tir	ne – Security Gro
INSTANCES	🕒 I-033c7536Rbd54c33 t2.micro us-east-2c 🥥 stopped None 🍃 WildWaker 📑 disabled June 15, 20	/17 at 5:07:29 PM launch-wizan
Instances		

Keep checking the console until the instance status is stopped.

## **Delete old EC2 Instance**

To delete the old EC2 Instance, from the EC2 Console page.

🎁 Services 🗸 Re	Resource Groups 🗸 🔺		MR AJ WALKER * London	Support *
EC2 Dashboard Events Tags Reports Limits Instances Spot Requests Reserved Instances Dedicated Hosts	Launch Instance Connect Actions A Q. Filer by tags and attributes of Centred Get Windows Plasmood Manne  Instance State  Attributes  Attribut	Monitoring	<ul> <li>K &lt; 11</li> <li>Launch Time</li> <li>July 26, 2017 at 3 56:55 Pi</li> </ul>	O     Image: Constraint of the security of the secu

Select Actions, Instance State, Terminate.

You will get a warning about terminating an instance.

Termi	nate Instances	×
<b>A</b>	Warning On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.	
Are you s • i-0	sure you want to terminate these instances? 33c7536f6bd64c33	
9	Cancel Yes, Terminat	•

Select Yes, Terminate.

Check the status of your old EC2 to check termination is complete.

🎁 Services 🗸	Resource Groups 🗸 🖌		A MR AJ WALKER ▼ Ohio ▼ Support ▼
EC2 Dashboard Events	Launch Instance Connect Actions V		÷ * 0
Tags	Q, Filter by tags and attributes or search by keyword		
Reports Limits	Name      Instance ID     Instance Type      Availability Zone	Instance State * Status Checks * Alarm Status Public DNS (IPv4) * IPv4 Public IP	IPv6 IPs      V Key Name      Monitoring      Launch Time      Security Grc
INSTANCES	i-033c7536f6bd64c33 t2.micro us-east-2c	🧼 terminated None 🍃 -	- WildWalker disabled June 15, 2017 at 5:07:29 PM
Instances			

This might take a minute to two.

## **Delete Old AMI**

Naviage back to the EC2 Console (ensure you are on your old AZ)

🎁 Services 🗸	Resource Groups 🗸 🔺	△ MR AJ WALKER ▼ Ohio ▼ Support ▼
EC2 Dashboard Events	↑ Launch Actions ♥	0 ¢ ¢
Tags	Owned by me 👻 Q, Filter by tags and altitudes or search by keyword	② K < 1 to 1 of 1 > >
Limits	Name * AMII Name * AMII O * Source * Owner * Visibility * Status * Creation Date * Platform * Root Device 1+ Virtualization *	
INSTANCES	web5wBackup ami-05240460 303216744559 303216744559 Private available July 26, 2017 at 2.46.58 PM Other Linux ebs hvm	
Instances Spot Requests		
Reserved Instances		
IMAGES		
AMIs		
Dundie Tasks		

From the menu on the right, go down to Images and select AMIs.

Your AMI will be listed in the main page.

👔   Services 🗤   Resource Groups 🗤   🔺	△ MR AJ WALKER ▼ Ohio ▼ Support ▼
EC2 Dashboard Actions A Events Comed b Launch Comed b South Research by Reynord South Research by Reynord South Research by Reynord South Research by Reynord South Research Boy Research B	€         €         €           @         K < 1to1of1 > X
reignas Links Disk Converter Millo - Source - Owner - Visibility - Satus - Creation Date - Platform - Root Device 1- Virtualization -	
Instructes       Copy AM       ami-05240460 303216744559       Private       available       July 26, 2017 at 2.48.58 PM Other Linux:       ebs       hvm         Spot Requests       Additest times       Modify Image Permitsions       Modify Boot Volume Setting       available       July 26, 2017 at 2.48.58 PM Other Linux:       ebs       hvm         Dedicated Hosts       Modify Boot Volume Setting       Modify Boot Volume Setting       File File File File File File File File	

### Select Actions, Deregister.

You will get a warning about deregistering an AMI.



Select Continue.

