How to install an instance of the EnGenius EzMaster server on the Amazon AWS platform.

Introduction

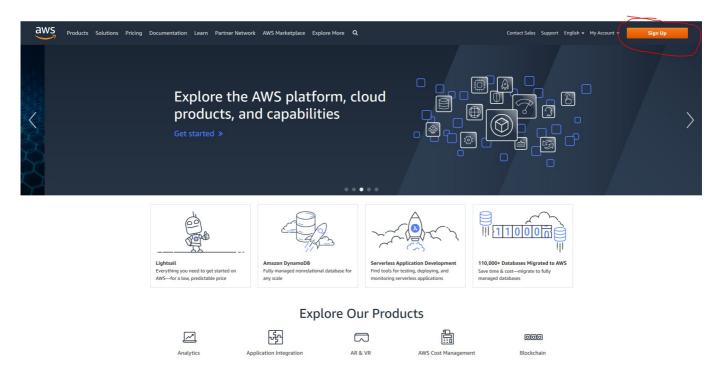
Up until recently, if you wanted to run EzMaster then you needed to do the install on your own server. The installation is trivial, quick and easy to do, and the server demands are quite low so it will run ion even a quite low spec Windows PC. However some users have felt wary of running their own server package.

Anyway there is now a public image file for the EnGenius EzMaster package that allows users to run their own instance on the Amazon AWS platform. The Amazon AWS platform is probably the most popular public server platform out there and used, for example, by a number of large corporate bodies. Generally you need to pay to install and run an 'instance' on the AWS platform but Amazon do have a starter option which gives you a free service. There are limitations on the free option but it should be fine for an EzMaster instance suitable for up to 500 access points.

Setup

First of all you need to go and create an account on the Amazon AWS. This is free...

https://aws.amazon.com/



If you already have an account then you can go direct to console management (you may have to confirm login before you can access this page):

https://eu-west-2.console.aws.amazon.com/console/home?region=eu-west-2#

*

Services 👻 Resource Groups 🗸

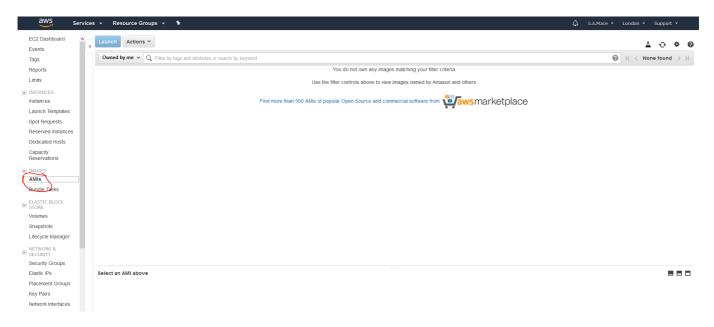
aws

AWS services				Access resources on the go
Find Services /ou can enter names, keywords or acronyms.				Access the Management Console using the AWS Console Mobile App. Learn more
Q Example: Relational Database Service,	database, RDS			
 Recently visited services 				Explore AWS
EC2				Scalable, Durable, Secure Backup & Restore with Amazon S3
 All services 				Discover how customers are building backup & restore solutions
Compute EC2	X Developer Tools CodeStar	Machine Learning Amazon SageMaker	Wobile AWS Amplify	on AWS that save money. Learn more 🖸
Lightsail 🔀 ECR	CodeCommit	Amazon Comprehend AWS DeepLens	Mobile Hub	Amazon RDS
ECS	CodeDeploy	Amazon Lex	AWS AppSync Device Farm	Set up, operate, and scale your relational database in the
EKS	CodePipeline	Machine Learning	Device runn	cloud. Learn more
Lambda	Cloud9	Amazon Polly	383 AR & VR	
Batch	X-Ray	Rekognition	Amazon Sumerian	Transfer (1970) Conver
Elastic Beanstalk		Amazon Transcribe		AWS Marketplace
Serverless Application Repository	Robotics AWS RoboMaker	Amazon Translate Amazon Personalize	Application Integration Step Functions	Find, buy, and deploy popular software products that run on AWS. Learn more [2]
Storage		Amazon Forecast	Amazon MQ	
53	Blockchain	Amazon Textract	Simple Notification Service	Amazon SageMaker
EFS	Amazon Managed Blockchain		Simple Queue Service	Build, train, and deploy machine learning
FSx		Analytics	SWF	models. Learn more
S3 Glacier	I Satellite	Athena EMR		
Storage Gateway AWS Backup	Ground Station	CloudSearch	Eustomer Engagement	
Aws backup		cioudsearch	Amazon Connect	

Make sure the region in the top right suites your location e.g. London. Then select EC2.

AWS Managem	ent Console				A S.A.Mace ▼ Lond US East (N. Virginia) US East (Ohio) US West (N. California) US West (N. California)
AWS services				Access resources on the go	Asia Pacific (Mumbai) Asia Pacific (Seoul)
Find Services You can enter names, keywords or acronyms. Q. Example: Relational Database Service,	database, RDS			Access the Management Cons Console Mobile App. Learn mo	Asia Pacific (Sydney) Asia Pacific (Tokyo)
 Recently visited services EC2 				Explore AWS	Canada (Central) EU (Frankfurt) EU (Ireland)
▼ All services Compute EC? Lightsail C ECS EKS Lambda Batch Elastic Beanstalk Serverless Application Repository	CodeStar CodeStar CodeCommit CodeBuild CodeDeploy CodePipeline Cloud9 X-Ray X-Ray X-Ray AVS RoboNtaker	Machine Learning Amazon SageMaker Amazon Comprehend AWS DeepLens Amazon Lex Machine Learning Amazon Polly Rekognition Amazon Translate Amazon Personalize	Mobile AWS Amplify Mobile Hub AWS AppSync Device Farm AWS AR & VR Amazon Sumerian Application Integration For Everyteere	Scalable, Durable, Secure Backup & S3 Discover how customers are building b on AWS that save money. Learn more Amazon RDS Set up, operate, and scale your relation cloud. Learn more [2] AWS Marketplace Find, buy, and deploy popular software AWS. Learn more [2]	EU (Paris) EU (Stockholm) South America (São Paul
Storage S3 EFS FSx S3 Glacier Storage Gateway AWS Backup	Blockchain Amazon Managed Blockchain Ground Station	Amazon Forecast Amazon Textract Analytics Athena EMR CloudSearch Elasticsearch Service	Step Functions Amazon MQ Simple Notification Service Simple Queue Service SWF Customer Engagement Amazon Connect Pinooint	Amazon SageMaker Build, train, and deploy machine learni models. Learn more [2] Have feedback?	ng

On the next page select AMIs on the left menu:



EnGenius have already uploaded a public accessible copy of the EzMaster server which you can copy onto your own platform.

Change Owned by me to Public Images and then select AMI Name:

oard ^ Lau	nch Actions *									∆ ⊕ ¢
P	iblic images 👻 🔍 Filter by tags and attr	ibutes or search by keyword						e) K < 1 to	50 of 34,500
	Name A AMI ID		AMI ID	Source	Owner	Visibility	Status	Creation Date	Platform	Root Device
	AMI Name		ami-0b6a7a4862157a11a	amis-for-210979	210979525344	Public	available	February 14, 2019 at 6:37:59	Other Linux	instance-store
6	Architecture		ami-0bbf3a398d00ebb5c	amis-for-210979	210979525344	Public	available	February 14, 2019 at 6:37:58	Other Linux	instance-store
15	Creation Date	10272157 beta	ami-0cad2808ec469c987	105249152789/	105249152789	Public	available	October 30, 2018 at 5:41:43	Other Linux	ebs
	Description	10272157.beta	ami-0b550c2fea1a07e07	105249152789/	105249152789	Public	available	November 2, 2018 at 12:18:4	Other Linux	ebs
	Ct Image Type	11132057 beta	ami-04e260307b87dd912	105249152789/	105249152789	Public	available	November 14, 2018 at 1:35:5	Other Linux	ebs
6	CS Kernel ID	01092057.beta	ami-04e260307867dd912	105249152789/	105249152789	Public	available	January 10, 2019 at 9:42:17	Other Linux	ebs
	Permissions	01092057.beta			105249152769	Public		4.1		
	Platform		ami-02f2b218ceacf9e2e	105249152789/			available	January 21, 2019 at 10:27:5	Other Linux	ebs
	CS Product Code	02071945	ami-025abdf2b6c8d6ba8	105249152789/	105249152789	Public	available	February 27, 2019 at 3:16:39	Other Linux	ebs
	00 RAM disk ID	1	ami-009380af915d005ed	143333925950/0	143333925950	Public	available	April 25, 2018 at 5:45:07 PM	Windows	ebs
	⁰¹ Root Device Name		ami-0d6d7169	961012847707/0	961012847707	Public	available	November 1, 2017 at 1:49:40	Windows	ebs
	0 ^r Root Device Type	c0890fa1-671fb39e-246b-4c3f-9514-0acf15d	ami-e2938f86	aws-marketplac	679593333241	Public	available	November 10, 2017 at 12:23:	Other Linux	ebs
	02 Size Source		ami-bad4c2de	264062220902/0	264062220902	Public	available	July 2, 2017 at 6:06:56 PM	Windows	ebs
	02 Status	16c-8a2b-759f13163d51-ami-038b48b581fb7	ami-0e33244a549ee44b0	aws-marketplac	679593333241	Public	available	February 13, 2019 at 9:16:57	Other Linux	ebs
	02 Virtualization type	9720063f5-30aeeda3-e103-43e1-b36c-40575	ami-062fcb61289c279ba	aws-marketplac	679593333241	Public	available	September 10, 2018 at 6:22:	Other Linux	ebs
		ra-196f-416c-8a2b-759f13163d51-ami-0e07e51a	ami-0008e166e5c0659df	aws-marketplac	679593333241	Public	available	March 1, 2019 at 1:15:35 P	Other Linux	ebs
	0239f87a		ami-a73a27c3	453360749497/0	453360749497	Public	available	October 19, 2017 at 10:28:5	Other Linux	ebs
	02513a508a5582222f14	a67b685780c7-59c0fd67-9b92-429e-9162-1e61df	ami-9b9a88ff	aws-marketplac	679593333241	Public	available	October 10, 2017 at 2:03:27	Other Linux	ebs
	03-KUSANAGI-Biz-235	0617a-196f-416c-8a2b-759f13163d51-ami-0050c	ami-0c305b3b94b30e192	aws-marketplac	679593333241	Public	available	January 21, 2019 at 10:58:3	Other Linux	ebs
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s	Name	A AMI ID		AMI ID	Source	Owner	Visibility	Status	Creation Date	Platform	Root Device T
		AMI Name		ami-0b6a7a4862157a11a	amis-for-210979	210979525344	Public	available	February 14, 2019 at 6:37:59	Other Linux	instance-store
		Architecture		ami-0bbf3a398d00ebb5c	amis-for-210979	210979525344	Public	available	February 14, 2019 at 6:37:58	Other Linux	instance-store
		Creation Date	10272157.beta	ami-0cad2808ec469c987	105249152789/	105249152789	Public	available	October 30, 2018 at 5:41:43	Other Linux	ebs
		Description	11012157 beta	ami-0b550c2fea1a07e07	105249152789/	105249152789	Public	available	November 2, 2018 at 12:18:4	Other Linux	ebs
		CE Image Type CE Kernel ID	11132057 beta	ami-04e260307b87dd912	105249152789/	105249152789	Public	available	November 14, 2018 at 1:35:5	Other Linux	ebs
		c. Owner	01092057.beta	ami-0573d780b77da7986	105249152789/	105249152789	Public	available	January 10, 2019 at 9:42:17	Other Linux	ebs
		Permissions	01202057.beta	ami-02/2b218ceacf9e2e	105249152789/	105249152789	Public	available	January 21, 2019 at 10:27:5	Other Linux	ebs
		Platform	02071945	ami-025abdf2b6c8d6ba8	105249152789/	105249152789	Public	available	February 27, 2019 at 3:16:39	Other Linux	ebs
		Product Code	4	ami-009380af915d005ed	143333925950/0	143333925950	Public	available	April 25, 2018 at 5:45:07 PM	Windows	ebs
		RAM disk ID	1	ami-009380ar9150005ed		961012847707				Windows	
		Root Device Name Root Device Type			961012847707/0		Public	available	November 1, 2017 at 1:49:40		ebs
		Size	c0890fa1-671fb39e-246b-4c3f-9514-0acf15d	ami-e2938f86	aws-marketplac	679593333241	Public	available	November 10, 2017 at 12:23:	Other Linux	ebs
		0, 0120 Source		ami-bad4c2de	264062220902/0	264062220902	Public	available	July 2, 2017 at 6:06:56 PM	Windows	ebs
		02 Status	16c-8a2b-759f13163d51-ami-038b48b581fb7	ami-0e33244a549ee44b0	aws-marketplac	679593333241	Public	available	February 13, 2019 at 9:16:57	Other Linux	ebs
		02 Virtualization type	9720063f5-30aeeda3-e103-43e1-b36c-40575	ami-062fcb61289c279ba	aws-marketplac	679593333241	Public	available	September 10, 2018 at 6:22:	Other Linux	ebs
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		0239f87a		ami-a73a27c3	453360749497/0	453360749497	Public	available	October 19, 2017 at 10:28:5	Other Linux	ebs
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ITY			7a-196f-416c-8a2b-759f13163d51-ami-0050c	ami-0c305b3b94b30e192	aws-marketplac	679593333241	Public	available	January 21, 2019 at 10:58:3	Other Linux	ebs
		03ea18801f5f131da5511c8	99d96a060-e385300c-2b32-4d9e-a93a-fc56cd	ami-098b9049db179adba	aws-marketplac	679593333241	Public	available	December 11 2018 at 7:00:5	Other Linux	ebs
c IPs	Select an AMI above										
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Pairs											
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type ezmaster and then press enter. The ezmaster public image should then show, click on Launch:

aunch Action									∆ ⊕ ¢
 Public images v	Q AMI Name : ezmaster 🕥 Add filter							0 K K	1 to 1 of 1 🔿
Name	AMI Name	 AMI ID 	Source	Owner	Visibility	Status	Creation Date	Platform	Root Device
	Engenius ezMaster v1.0.30A_c1.9.21_2018.11.23_x86_64	ami-065595dc041a19187	572562085345/E	572562085345	Public	available	November 26, 2018 at 4:24:1	Other Linux	ebs

The next screen is for you to choose an Instance Type:

Amazon E	Choose an Instance Typ provides a wide selection of instance typ for your applications. Learn more about ins	es optimized to fit different tance types and how they	use cases. Instances are virtua		ns. They have varying combinations of CPU,	memory, storage, and networking capacity	and give you the flexibility to choose the a	ppropriate mix of
-	y selected: 12.micro (Variable ECUs, 1 vCF							
	Family	Туре -	vCPUs (i) -	Memory (GiB) ~	Instance Storage (GB) (i) -	EBS-Optimized Available () -	Network Performance (i)	IPv6 Support (i)
	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
	General purpose	t2.micro Free tier eligible) 1	1	EBS only	-	Low to Moderate	Yes
	General purpose	t2.smail	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	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
	General purpose	t3.2xlarge	8	32	EBS only	Yes	Up to 5 Gigabit	Yes

Select the type you need. For applications up to 500 APs then the free t2.micro is suitable. For larger numbers of APs then you will need to select a more powerful type. e.g. for the full 10000 APs then you need to go for t3.xlarge!

Click on Configure Instance Details in the bottom right of the page:

		N/		11-4-40 01	×		
		Cancel	Previous	Review and Launch Next: Confi	gure Instance Details		
		Gancer		Next Com	gare instance betails	J	
1. Choose AMI 2. Choose Instance Type	3. Config	gure Instance 4. Add Storage 5. Ad	d Tags 6. Confi	e Security Group 7. Review			
Step 3: Configure Instan	Dot	oilo					
			e same AML requi	Spot instances to take advantage of the lower pricing, assign an ac	cess management role to the instance and m	ore	
Number of instances	1	Launc	h into Auto Scaling	roup 🕕			
Purchasing option	() [Request Spot instances					
Network	(i) v	/pc-e445de8c (default)	~ (Create new VPC			
Subnet	(i) I	No preference (default subnet in any Av	vailability Zon ~	Create new subnet			
Auto-assign Public IP	(i) L	Jse subnet setting (Enable)	~				
Placement group		Add instance to placement group					
	-						
Capacity Reservation	U	Dpen	~ (Create new Capacity Reservation			
IAM role		lone		Create new IAM role			
	U I	vone	~ (Create new law role			
Shutdown behavior	1	Stop	~				
Enable termination protection		Protect against accidental termination					
Monitoring	-	Enable CloudWatch detailed monitori					
		dditional charges apply.	-9				
Tenancy	1	Shared - Run a shared hardware instar	ice ~				
	A	dditional charges will apply for dedicate	ed tenancy.				
T2/T3 Unlimited		Enable					
		dditional charges may apply					
 Advanced Details 							
					c	Cancel Previous Review	w and Launch Next: Add Storage

Nothing needs to be set on the next page so go direct to Add Storage...

1. Choose AMI Step 4: Ad	2. Choose Ir		3. Confi	igure Instance	4. Add Sto	orage	5. Add Tags	6.	Configure Security	Group	7. Review								
Your instance will edit the settings o storage options in	be launched f the root vo	with the follo lume. You car																	
Volume Type	D	Device (j)	s	napshot 🕕		Size	e (GIB) 🕕		Volume Type (D			IOPS ()	Through (MB/s)	put i)	Delete on Terr	mination ()	Encrypted	1 ()
Root		/dev/xvda	sr	nap-0a3bc58	a73dce20e7	20		[General Purpos	se SSD (g	3p2)	~	100 / 3000	N/A				Not Encrypte	ed
Add New Volum	ne																		
Free tier eligit usage restrict		rs can get up	to 30 GB	3 of EBS Gen	eral Purpose	e (SSD) o	or Magnetic s	storage	e. Learn more a	bout free	usage tier	eligibi	oility and						

Cancel Previous Review and Launch Next: Add Tags

The default 20GB storage is normally okay but you can use up to 30GB on the free platform. Click on Add Tags...

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				
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

You don't need to add any tags so you can go direct to Configure Security Group:

the HTTP and HTTPS ports. You can create a ne	roup trol the traffic for your instance. On this page, you can add rules to w security group or select from an existing one below. Learn more Dcreate a new security group		f you want to set up a web server and allow Internet traffic to	reach your instance, add rules that allow unrestricted access to
(OSelect an existing security group			
Security group name:	launch-wizard-2			
Description:	launch-wizard-2 created 2019-03-07T10:02:13.512+00:00			
Туре 🕕	Protocol ①	Port Range ()	Source ()	Description ()
SSH ~	TCP	22	Custom ~ 0.0.0/0	e.g. SSH for Admin Desktop
Add Rule				
Warning Rules with source of 0.0.0.0/0 allow a	I IP addresses to access your instance. We recommend setting sec	urity group rules to allow access from known IP addresses	only.	

Cancel Previous Review and Launch

Go direct to Review and Launch....

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

Step 7: Review Instance Launch

Please review your instance	e launch details. Yo	ou can go back	to edit changes for each	section. Click Launch to assign a key	pair to your instance and complete the	launch process.	
Your instances	may be accessible	from any IP ad	dress. We recommend th	ch-wizard-2, is open to the worl at you update your security group rules ss to the application or service you're ru	to allow access from known IP addres		
 AMI Details 							Edit AMI
Engenius ez	ezMaster v1.0.30 zMaster v1.0.30A_c1 vpe: ebs Virtualization	.9.21_2018.11.2	18.11.23_x86_64 - ami- 3_x86_64	065595dc041a19187			
 Instance Type 							Edit instance type
Instance Type	ECUs	VCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	
t2.micro	Variable	1	1	EBS only	-	Low to Moderate	
 Security Groups 							Edit security groups
Security group name Description			2019-03-07T10:02:13.5	12+00:00			
Type (i)		Protocol ()		Port Range (i)	Source (i)	Description (i)	
SSH		TCP		22	0.0.0/0		
Instance Details							Edit instance details
 Storage 							Edit storage
 Tags 							Edit tags
							Cancel Previous Launch

Then go to Launch....

AWS will now ask you to set up a security key:

l	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. Choose an existing key pair Select a key pair
	Solvise Key Solvise Key
	Cancel Launch Instances

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

Select an existing key pair or create a new key pair X
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
Freds Key
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

Next you should download and save the key pair file ...

^d 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.	Opening FredsKey.pem × You have chosen to open: FredsKey.pem
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	which is: Text Document from: https://eu-west-2.console.aws.amazon.com What should Firefox do with this file?
Key pair name Freds Key Download Key Pair	Open with Notepad (default) ✓ Save File
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.	Do this automatically for files like this from now on.
Câncel Launch Instances	

and then you goto Launch Instances.

Launch Status

 Your instances are now launching The following instance launches have been 		
Get notified of estimated charges Create billing alerts to get an email notific	ation when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).	
How to connect to your instances		
Your instances are launching, and it may take a few r	ninutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.	
Click View Instances to monitor your instances' stat	us. Once your instances are in the running state, you can connect to them from the instances screen. Find out how to connect to your instances.	
 Here are some helpful resources to g 	yet you started	
How to connect to your Linux instance	Amazon EC2: User Guide	
Learn about AWS Free Usage Tier	Amazon EC2: Discussion Forum	
While your instances are launching you can also		
Create status check alarms to be notified when th	ese instances fail status checks. (Additional charges may apply)	
Create and attach additional EBS volumes (Addit	onal charges may apply)	
Manage security groups		
		View Instances

Click on the link for the new instance....

2 search : 1-0337	7d72cb04515bc3 🕥 Add	l filter								e) K < 1 to 1 o	$f1 \rightarrow \Rightarrow$
Name	 Instance ID 	▲ Instance Type →	Availability Zone -	Instance State -	Status Checks	Alarm Status	Public DNS (IPv4	- IPv4 Public IF	P - IPv6 IPs	 Key Name 	- Monitoring	- Launch
	i-0337d72cb04515bc3	t2.micro	eu-west-2a	running	🛣 Initializing	None	🍃 ec2-18-130-106-23	1.eu+ 18.130.106.231	1 -	Freds Key	disabled	March 7
stance: I-0337c	172cb04515bc3 Put	blic DNS: ec2-18-130)-106-231.eu-west-2.0	compute.amazona	ws.com							
)-106-231.eu-west-2.6	compute.amazona	ws.com						1	
	Status Checks Moni	toring Tags	0-106-231.eu-west-2.6	compute.amazona	ws.com						1	
	Status Checks Moni		0-106-231.eu-west-2.4	compute.amazona	Ws.com		Public DNS (IPv4)	ec2-18-130-106-231.eu	west-2 compute amaze	onaws.com	1	
Description	Status Checks Moni	toring Tags	D-106-231.eu-west-2.d	compute.amazona	ws.com		Public DNS (IP4) IP4 Public IP	ec2-18-130-106-231.eu- 18.130.106.231	west-2 compute amazo	onaws.com	1	
	Status Checks Moni Instance ID i-0337d7 Instance state running Instance type t2.micro	Tags 72cb04515bc3)-106-231.eu-west-2.d	compute.amazona	ws.com		IPv4 Public IP IPv6 IPs	18.130.106.231 -		onavs.com		
Description	Status Checks Moni Instance ID i-0337d7 Instance state running Instance type t2.micro Elastic IPs	toring Tags 72cb04515bc3)-106-231.eu-west-2.6	compute.amazona	ws.com		IPv4 Public IP IPv6 IPs Private DNS	18.130.106.231 - ip-172-31-21-32.eu-west		onaws.com		
Description	Status Checks Moni Instance ID i-0337d7 Instance state running Instance type t2.micro Elastic IPs wailability zone eu-west	toring Tags 72cb04515bc3 -2a			ws.com		IPv4 Public IP IPv6 IPs Private DNS Private IPs	18.130.106.231 -		on a ws.com		
Description S	Status Checks Moni Instance ID i-0337d7 Instance state running Instance type t2. micro Elastic IPs wailability zone eu-west Security groups autoch-1	toring Tags 72cb04515bc3 -2a wizard-2. view inbound	D-106-231.eu-west-2.d		ws.com		IPv4 Public IP IPv6 IPs Private DNS Private IPs Secondary private IPs	18.130.106.231 - ip-172-31-21-32.eu-west 172.31.21.32		onaws.com		
Description S	Status Checks Monii Instance ID i-0337dJ Instance state running Instance type Elastic IPs walability zone kecunty groups heduled events No schr	Tags 72cb04515bc3		85			IPv4 Public IP IPv6 IPs Private DNS Private IPs	18.130.106.231 - ip-172-31-21-32.eu-west		onaws.com		

Then click on the launch..... link.

							0 ¢
Group ID	: sg-0d363e5296c81d61b 💿 Add fi	lter				Ø K < 1 t	o 1 of 1 >
Name	 Group ID 	Group Name	 VPC ID 	- Owner	- Description		
	sg-0d363e5296c81d61b	launch-wizard-2	vpc-e445de8c	123543299409	launch-wizard-2 created 2019-03-07T10:02:13.	512+00:00	
urity Grou	p: sg-0d363e5296c81d61b						
	\frown						
escription	Inbound Outbound Ta	gs					
-							
Edit							
		0		Port Range (i)	Source (i)	Description (i)	
Type (i)		Protocol (i)		Fort Range ()	source ()	Description ()	

Goto the Inbound security tab and then Edit....

Edit inbo	ound rules				×
Type (i)	Protocol	(i) Port Range	i) Source (i)	Description (i)	
SSH	~ TCP	22	Custom ~ 0.0.0/0	e.g. SSH for Admin Desktop	8)
Add Rule				_	_
		5	0	reated with the new details. This will cause traffic that depends	
		5	lited rule being deleted and a new rule c ntil the new rule can be created.	reated with the new details. This will cause traffic that depen	ds

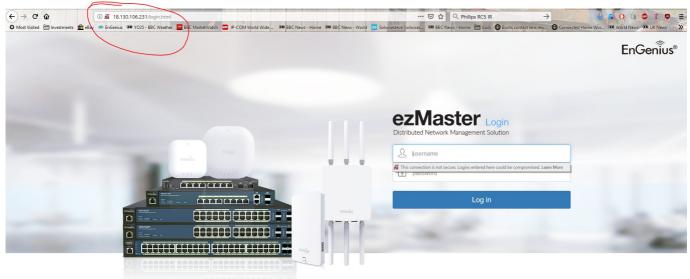
Delete the default SSH entry and then Add Rule. Add rules for HTTP and HTTPS and a Custom UDP for 1234:

Type 🧻	Protocol (i)	Port Range (i)	Source ()	Description (i)	
HTTPS	ТСР	443	Anywhere > 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop	8
HTTP ~	ТСР	80	Anywhere ~ 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop	\otimes
Custom UDP F ~	UDP	1234	Anywhere 🗸 0.0.0/0, ::/0	e.g. SSH for Admin Desktop	×
-	-		rule being deleted and a new rule created with the e new rule can be created.	ne new details. This will cause traffic that depends	

Change the Source to Anywhere to allow clients from any external location to connect. Then click on Save.

EC2 Dashboard	Launch Instan	ce 👻 Connect	Actions 😪									Δ.	e 🕈 🛛
Events	4												
Tags	Q Filter by tags and attributes or search by keyword										< < 1 to 2	of 2 > >	
Reports	Name	 Instance ID 	 Instance Type 	- Availability Zone -	Instance State ~	Status Checks 👻	Alarm Status	Public DNS (IPv4	l) - IPv4 Put	olic IP - IPv6 IPs	 Key Name 	- Monitoring	- Launch T
Limits		i-0337d72cb04515	bc3 t2.micro	eu-west-2a	running	2/2 checks	None	ec2-18-130-106-23	1.eu 18,130,10	06.231 -	Freds Key	disabled	March 7, 2
INSTANCES		i-0a3e2ffcac0c1aff	t2.micro	eu-west-2a	running	2/2 checks	None	ec2-35-176-189-13	15.eu 35.176.18	89.135 -	Solwise Key	disabled	March 7, 2
Instances													
Launch Templates													
Spot Requests													
Reserved Instances													
Dedicated Hosts													
Capacity Reservations													
IMAGES													
AMIs													
Bundle Tasks													
ELASTIC BLOCK STORE													
Volumes													
Snapshots													
Lifecycle Manager													
NETWORK & SECURITY													
Security Groups	٢												>
Elastic IPs	Instance: i-03	37d72cb04515bc3	Public DNS: ec2-18	130-106-231.eu-west-2	.compute.amazon	aws.com							
Placement Groups	Description	Status Checks N	opitoring Tage										
Key Pairs	Description		onitoring Tags										
Network Interfaces			7d72cb04515bc3					Public DNS (IPv4)		31.eu-west-2.compute.ama	zonaws.com		
LOAD BALANCING		Instance state runn Instance type t2.m	-					IPv4 Public IP IPv6 IPs	18.130.106.231)			
Load Balancers		Elastic IPs	1010					Private DNS	ip-172-31-21-32.eu	J-west-2.compute.internal			
Target Groups			est-2a					Private IPs	172.31.21.32	· · · · · · · · · · · · · · · · · · ·			
AUTO SCALING		Security groups laur	ch-wizard-2. view inbo	und rules . view outbound ru	iles			Secondary private IPs					

Click on Instances on the left menu. Then you can see the public IP address that you can use to log into the EzMaster instance.



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Done!! :-)