Creating Virtual Machines with Amazon EC2 in AWS _ ocTony

1. Sign in to the AWS Management Console: Go to the AWS Management Console at

https://aws.amazon.com/console/ & sign in with your AWS account credentials. C https://aws.amazon.com _ CD ি≣ ∞ ☆ aws Contact Us Support -English 🗸 My Account -Sign In **Create an AWS Account** Products Solutions Pricing Documentation Partner Network AWS Marketplace Customer > Q Learn

2. **Navigate to EC2**: Once signed in, navigate to the EC2 service. You can find it under the "Compute" section, or you can search for "EC2" in the search bar at the top of the console.



3. **Launch an instance**: Click on the "Launch Instance" button to start the process of launching a new EC2 instance.

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aws Services Q Search		된 🔶 🕜 🎯 N. California 🔺	
EC2 Dashboard X EC2 Global View	Resources	EC2 Global view 🖄 🙆 C	US East (N. Virginia) us-east-1 E(of US East (Ohio) us-east-2
▼ Instances	You are using the following Amazon EC2 resou Instances (running) 0 Auto S	rces in the US West (N. California) Region: icaling Groups 0 Dedicated Hosts 0	US West (N. California) us-west-1 US West (Oregon) us-west-2
Instance Types Launch Templates	Elastic IPs 0 Instance Load balancers 0 Placent	ces 0 Key pairs 0 nent groups 0 Security groups 1	Asia Pacific (Mumbai) ap-south-1
Spot Requests Savings Plans Reserved Instances	Snapshots 0 Volum	es 0	Asia Pacific (Seoul) ap-northeast-2 Vi Asia Pacific (Singapore) ap-southeast-1
Dedicated Hosts Capacity Reservations New	Launch instance To get started, launch an Amazon EC2 instance, which virtual server in the cloud.	is a AWS Health Dashboard	Asia Pacific (Sydney) ap-southeast-2 Asia Pacific (Tokyo) ap-northeast-1
▼ Images AMIs	Launch instance	Region US West (N. California)	Canada (Central) ca-central-1
AMI Catalog Elastic Block Store Valuess	Migrate a server 🖸	Zones	Europe (Frankfurt) eu-central-1 De Europe (Ireland) eu-west-1 vp
Snapshots	California) Region	Zone name Zone ID	Se Europe (London) eu-west-2

4. **Choose an Amazon Machine Image (AMI)**: Select the AMI that you want to use for your instance. An AMI is a pre-configured template that contains the operating system, software, and settings for the instance.

Services Q	Search				[A]	t+S]	2	〕
Name WinServer						Add additional tags	▼ Summary	
							Number of instances Info	
An AMI is a tem applications) re	plate that cont quired to launc	ains the softwar h your instance.	re configuratio Search or Brow	n (operating sys wse for AMIs if y	nto tem, applicati rou don't see v	on server, and vhat you are looking for	Software Image (AMI) Microsoft Windows Server 2022re ami-ocd41521377c6f743	ad more
below Q Search out	full catalog ind	cluding 1000s of	application an	d OS images			Virtual server type (instance type) t2.micro	
Quick Start		Ŷ					Firewall (security group) New security group	
Amazon Linux	Ubuntu	Windows	Red Hat	SUSE Linux	Debia	Q	Storage (volumes) 1 volume(s) - 30 GiB	
aws	ubuntu ^e	Microsoft	📥 Red Hat	SUSE	debiar	Including AMIs from AWS, Marketplace and the Community	Free tier: In your first year includes 750 hours of t2.mic	ro (or
Amazon Machii	ne Image (AMI)						t3.micro in the Regions in wh t2.micro is unavailable) insta	iich nce
Microsoft Win	dows Server 20	022 Base		~_		Free tier eligible		

5. **Choose an instance type**: Select the instance type based on your workload requirements. AWS provides various instance types with different configurations of CPU, memory, and storage.

	▼ Summary
Instance type Info Get advice	Number of instances Info
Instance type	1
Intervention Family: t2 1 vCPU 0.5 GiB Memory Current generation: true On-Demand SUSE base pricing: 0.0069 USD per Hour On-Demand Linux base pricing: 0.0069 USD per Hour On-Demand Windows base pricing: 0.0092 USD per Hour	All generations All generations Compare instance types Software Image (AMI) Microsoft Windows Server 2022read ami-0cd41521377c6f743
Additional costs apply for AMIs with pre-installed software	Virtual server type (instance type) t2.nano
	Firewall (security group)
Key pair (login) Info	New security group
You can use a key pair to securely connect to your instance. Ens before you launch the instance.	re that you have access to the selected key pair Storage (volumes) 1 volume(s) - 30 GiB
Key pair name - required	Free tier: In your first year
keyOCweb	Create new key pair. includes 750 hours of t2.micro (
For Windows instances, you use a key pair to decrypt the administrator pa	sword. You then use the decrypted password to connect to t3.micro in the Regions in which t2.micro is unavailable) instance

- Configure instance details: Configure additional settings such as the number of instances you want to launch, network settings (VPC, subnet, IP addressing), IAM role (if required), and other advanced options.
- 7. **Add storage**: Configure the storage settings for your instance. You can add and configure additional EBS volumes if needed, specify the size and type of the root volume, and configure any additional storage-related settings.
- 8. **Configure security group**: Configure the security group for your instance. A security group acts as a virtual firewall that controls the traffic to and from your instance. You can define inbound and outbound rules to allow specific types of traffic.

Services	Q Search	[Alt	+S]	<u>ک</u> ک
A security gr instance.	roup is a set of firewall rules that	control the traffic for your instance. Add rules to allow specif	ic traffic to reach your	
O Crea	te security group	Select existing security group		▼ Summary
We'll create	e a new security group calle	d 'launch-wizard-1' with the following rules:		Number of instances Info
Allow R Helps yo	RDP traffic from ou connect to your instance	Anywhere		1
Allow H	HTTPS traffic from the inter	net		Software Image (AMI)
Allow H	HTTP traffic from the intern	et		ami-Ocd41521377c6f743
To set up	p an endpoint, for example whe	n creating a web server		Virtual server type (instance type) t2.nano
- 66				Firewall (security group)
▼ Conne	gure storage Info		Advanced	New security group
1x 30	GiB gp2	Root volume (Not encrypted)		Storage (volumes)
				1 volume(s) - 30 GiB
(i) Free	e tier eligible customers car	get up to 30 GB of EBS General Purpose (SSD) or Ma	gnetic storage 🗙	Free tier: In your first year includes 750 hours of t2.micro (or
Add ne	ew volume			t3.micro in the Regions in which t2.micro is unavailable) instance
The selecter volumes from	ed AMI contains more instan rom the AMI will be accessib	nce store volumes than the instance allows. Only the le from the instance	first 0 instance store	Cancel

9. **Review and launch**: Review all the settings you've configured for your instance and make sure everything is correct. Once you're satisfied, click on the "Launch" button to start the instance.

- 10. **Select a key pair**: If you haven't already created a key pair, you'll be prompted to create one. A key pair is used to securely connect to your instance via SSH for Linux instances or RDP for Windows instances.
- 11. **Launch instance**: After selecting the key pair, click on the "Launch Instances" button to launch your EC2 instance.
- 12. **Access your instance**: Once the instance is launched, you can access it using SSH (for Linux instances) or RDP (for Windows instances) using the public IP address or DNS name provided in the EC2 dashboard.

🔁 sftp://ubuntu@18.117.217.150 - FileZilla							_	\Box \times
File Edit View Transfer Server Bookmark	s Help New version available!							
H - B T T # 2 # 8 5	, 🗊 🏝 🔍 🗮 🙏							
Host: sftp://18.117.217.15 Username: ubuntu	Password:	••••••• Port:	Quickconnect	-				
Status: Connecting to 18.117.217.150 Status: Using username "ubuntu". Status: Connected to 18.117.217.150 Status: Retrieving directory listing Status: Listing directory /home/ubuntu Status: Directory listing of "/home/ubuntu	Natio	n112x						^ ~
Local site: C:\Web-created\SchoolFirst\	Settings				×			~
Image: Second	Select page: Connection FTP Active mode FTP Proxy SFTP Generic proxy FTransfers FTP: File Types		tion authentication, FileZilla needs to know the private keys to Comment Data Desk OCAwsWeb ssh-rsa 2048 SHA256:cCVJy3dUc KeyOCweb in AWS					
	- Interface - Passwords - Themes - Date/time format - File lists - File lists - File diting - File diting - Language File diting - Logging - Debug OK Cancel	Alternatively you can u FileZilla does recognize Other SFTP options Enable compression	Add key file se the Pageant tool Pageant.	Remove key from PuTTY to r	nanage your keys,	.ast modified //10/2024 3:51: //10/2024 3:41: //6/2022 8:23:3 //10/2024 3:52: //6/2022 8:23:3 //10/2024 3:53:	Permissions drwx drwx -rw-rr -rw-rr -rw-rr -rw-rr	Owner/Group ubuntu ubu ubuntu ubu ubuntu ubu ubuntu ubu ubuntu ubu ubuntu ubu ubuntu ubu
Selected 1 file. Total size: 20,736 bytes			5 files and 2 direct	ories. Total size:	4,818 bytes			
Server/Local file Direction Ren Queued files Failed transfers Successful tr	note file ansfers	Size Priority Stat	us					
						<mark>∂</mark> Ø	Queue: empty	• • •