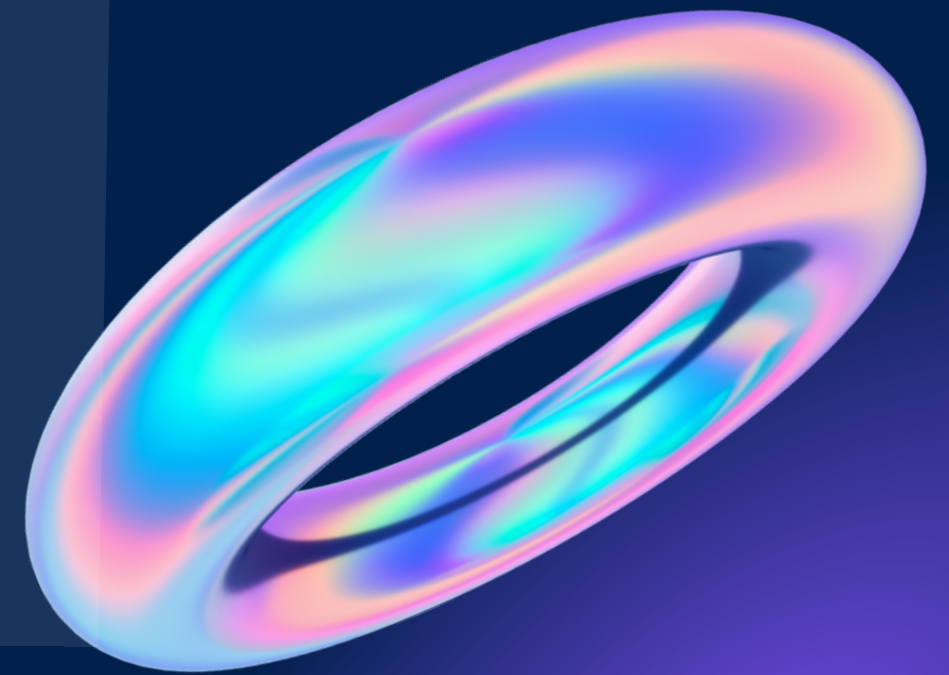


# STEPS TO CREATE EC2



## STEP 1: Choose an Amazon machine image {AMI}:


- AMI is a template that consists of software configuration ( os, application server, application)required to launch your instance.
- it consists of AMI ID which is region specific.we can buy ,sell ,share the AMI''s.
- we need to use free tier AMI's only.


▼ **Application and OS Images (Amazon Machine Image)** [Info](#)


An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below


🔍 *Search our full catalog including 1000s of application and OS images*


**Quick Start**


Amazon Linux  


macOS  


Ubuntu  


Windows  


Red Hat  


SUSE Li  


🔍 [Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

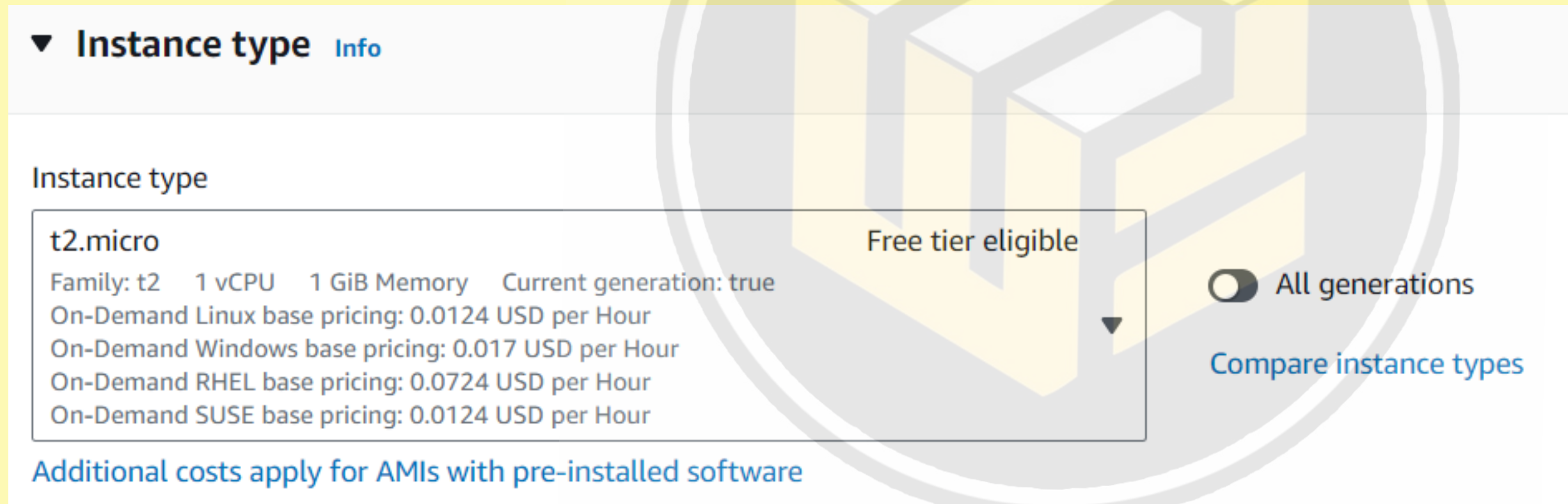
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type  
ami-0a6ed6689998f32a5 (64-bit (x86)) / ami-02643bbd3f82ce3b5 (64-bit (Arm))  
Virtualization: hvm   ENA enabled: true   Root device type: ebs

Free tier eligible ▼

**Description**

## STEP 2: choose an instance type

- we are providing cpu & memory to our instance.
- here we need to select an instance that is under the free tier.
- t2 micro instance have (1 CPU& 1 GB).
- total instance families are 90 available.



The screenshot shows the AWS Management Console interface for selecting an instance type. A dropdown menu is open for 'Instance type', showing the 't2.micro' option. A tooltip for 't2.micro' is displayed, indicating it is 'Free tier eligible' and listing its specifications: 1 vCPU, 1 GiB Memory, and current generation status. Pricing information for Linux, Windows, RHEL, and SUSE is also shown. To the right, there is a toggle for 'All generations' and a link to 'Compare instance types'. A note at the bottom states 'Additional costs apply for AMIs with pre-installed software'.

▼ Instance type [Info](#)

Instance type

t2.micro  
Family: t2 1 vCPU 1 GiB Memory Current generation: true  
On-Demand Linux base pricing: 0.0124 USD per Hour  
On-Demand Windows base pricing: 0.017 USD per Hour  
On-Demand RHEL base pricing: 0.0724 USD per Hour  
On-Demand SUSE base pricing: 0.0124 USD per Hour

Free tier eligible

☐ All generations

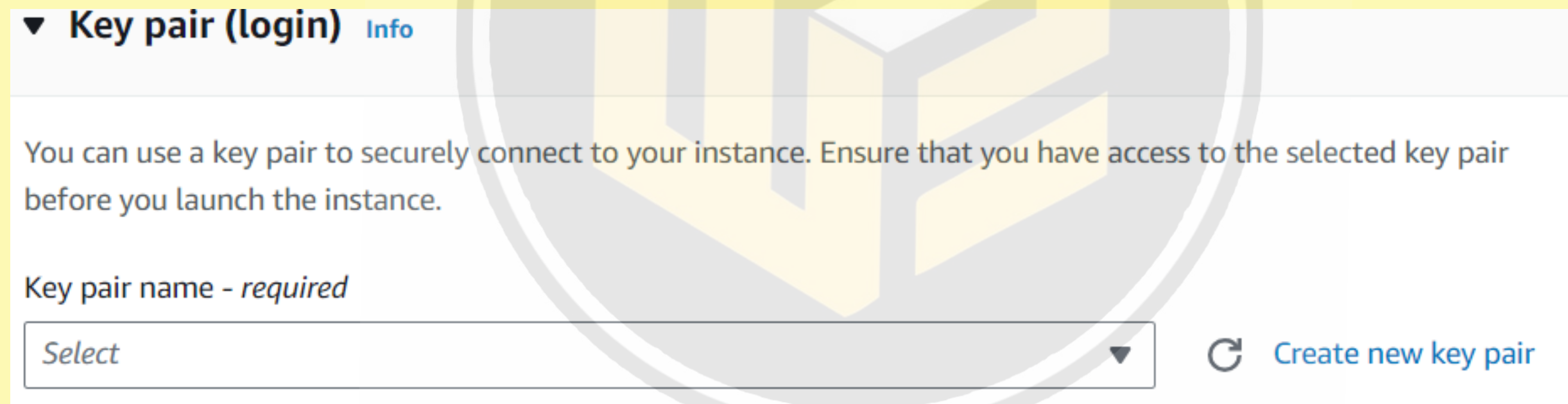
[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software



### STEP 3: configure your instance.

- configure the instance to suit your requirements. you can launch multiple instances from the same AMI's request spot instances to take advantage of the lower pricing, assign access management role to the instance, and more.
- Here you need to configure all your instance details like no. of instances, subnets, vpc, IAM role, tenancy and all other details.



▼ **Key pair (login)** [Info](#)

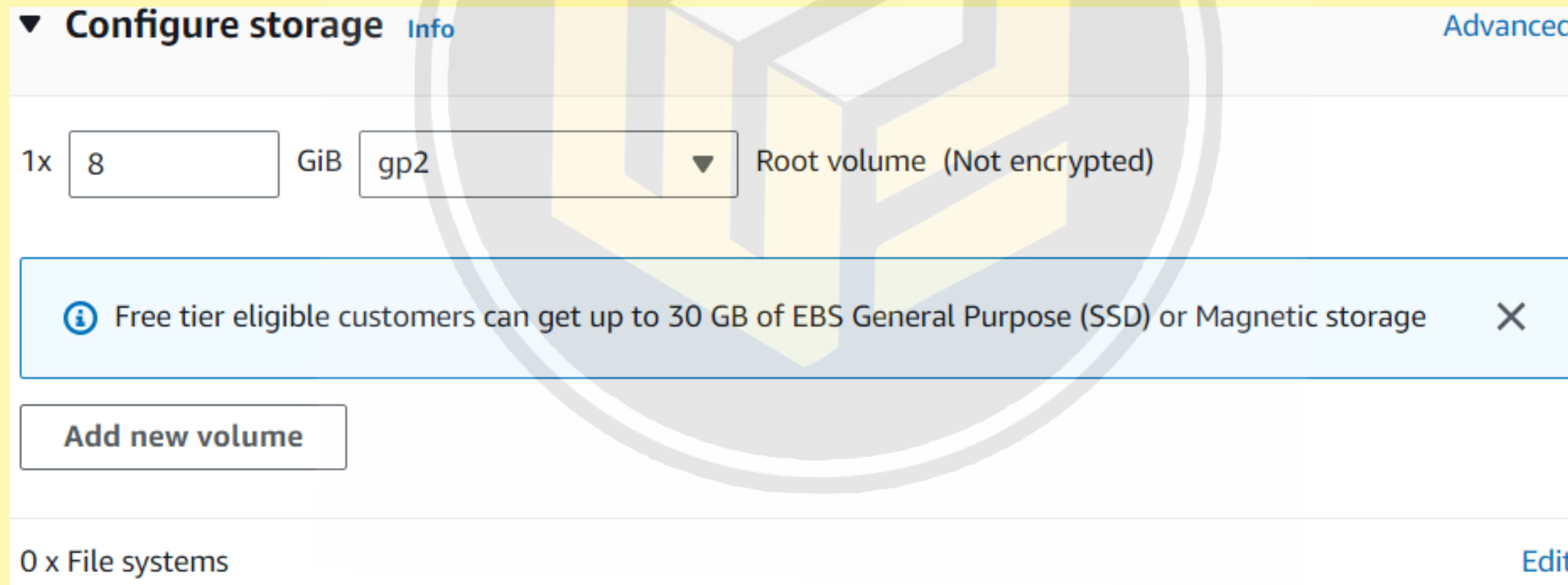
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

▼ [Create new key pair](#)

## STEP 4: Add storage:

- To store the data in server we use Ebs volumes.
- ebs means elastic block storage.
- for single server we can use attach multiple ebs volumes.
- os will run on ebs volumes.
- free tier eligible customer can get up to 30GB of EBS general purpose.



The screenshot shows the 'Configure storage' section of the AWS EC2 console. It features a header with a dropdown arrow, the text 'Configure storage', an 'Info' link, and an 'Advanced' tab. Below the header, there is a configuration row for a single volume: '1x' followed by a text input containing '8', the unit 'GiB', a dropdown menu showing 'gp2', and the label 'Root volume (Not encrypted)'. A light blue informational banner below this row states: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'. Below the banner is a button labeled 'Add new volume'. At the bottom of the section, it shows '0 x File systems' and an 'Edit' link.

▼ **Configure storage** [Info](#) Advanced

1x  GiB  ▼ Root volume (Not encrypted)

**i** Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage **X**

**Add new volume**

0 x File systems Edit

## STEP 5: Add tags

- You can give name to your instance.



**Name and tags** [Info](#)

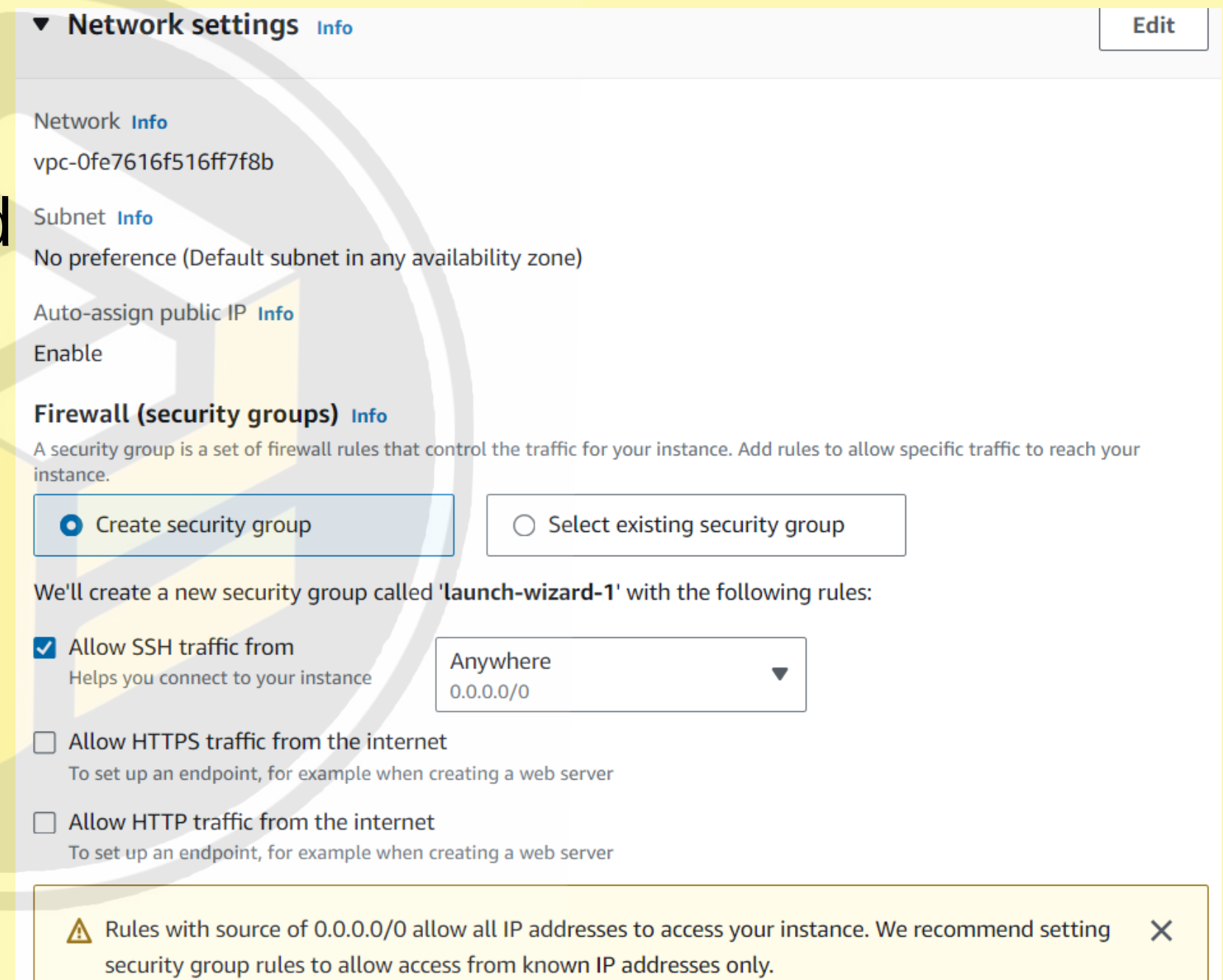
Name

*e.g. My Web Server*

[Add additional tags](#)

## STEP 6: Configure security group:

- A security group is set of firewall rules that control the traffic for your instance.
- these are region and network specific.
- The port range is 0 to 65535.
- It deals with the inbound and outbound traffic.



The screenshot shows the 'Network settings' section of the AWS Management Console. Under 'Firewall (security groups)', there are two radio buttons: 'Create security group' (selected) and 'Select existing security group'. Below this, a message states: 'We'll create a new security group called 'launch-wizard-1' with the following rules:'. There are three checkboxes for rules: 'Allow SSH traffic from' (checked), 'Allow HTTPS traffic from the internet' (unchecked), and 'Allow HTTP traffic from the internet' (unchecked). The 'Allow SSH traffic from' rule has a dropdown menu set to 'Anywhere' with the IP range '0.0.0.0/0'. A warning message at the bottom states: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)  
vpc-0fe7616f516ff7f8b

Subnet [Info](#)  
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)  
Enable

**Firewall (security groups)** [Info](#)  
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from  
Helps you connect to your instance

☐ Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server

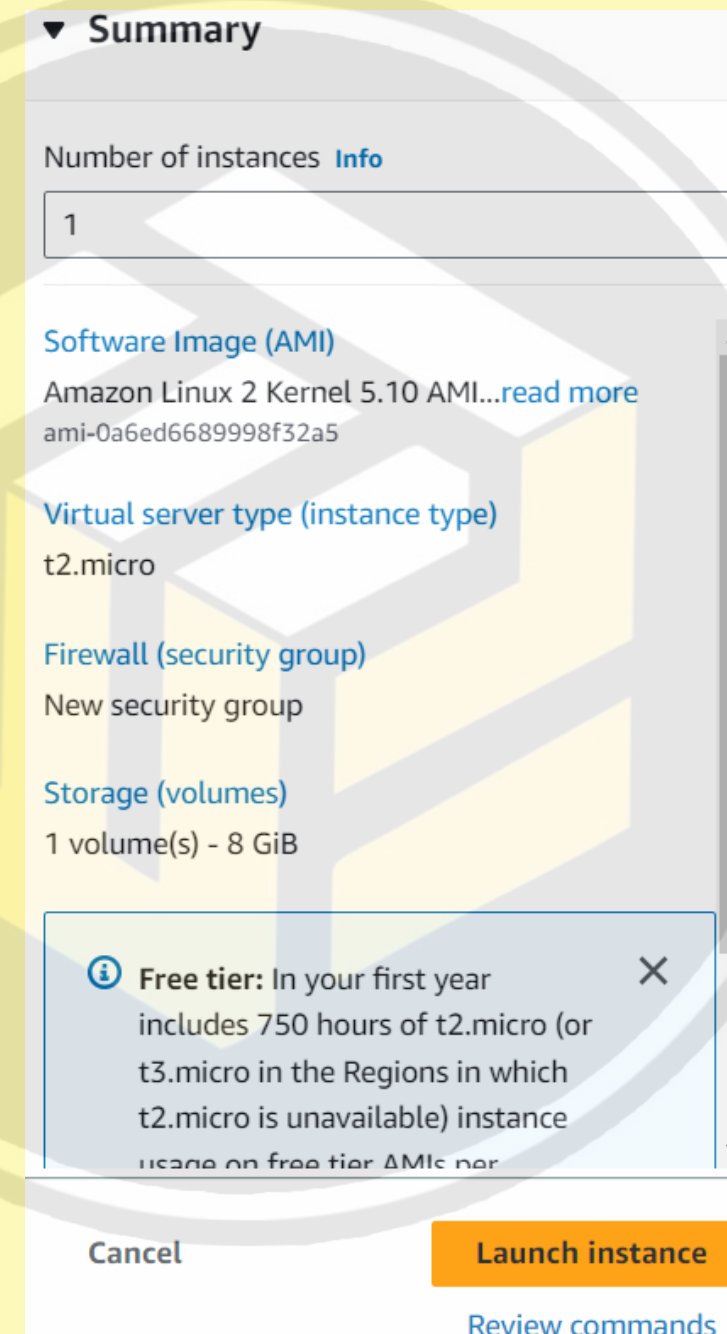
☐ Allow HTTP traffic from the internet  
To set up an endpoint, for example when creating a web server

Anywhere  
0.0.0.0/0

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. ✕

## STEP 7: Review and launch

- At the last step we need cross verify the details of an instance and then proceed to launch the instance.



The screenshot shows the 'Summary' tab of the AWS Management Console during the EC2 instance launch process. The configuration details are as follows:

- Number of instances:** 1
- Software Image (AMI):** Amazon Linux 2 Kernel 5.10 AMI...read more (ami-0a6ed6689998f32a5)
- Virtual server type (instance type):** t2.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

A notification box at the bottom states: **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per...

At the bottom, there are three buttons: 'Cancel', 'Launch instance' (in orange), and 'Review commands' (in blue).