## **Project 7: Launching a Spot Instance with EC2**

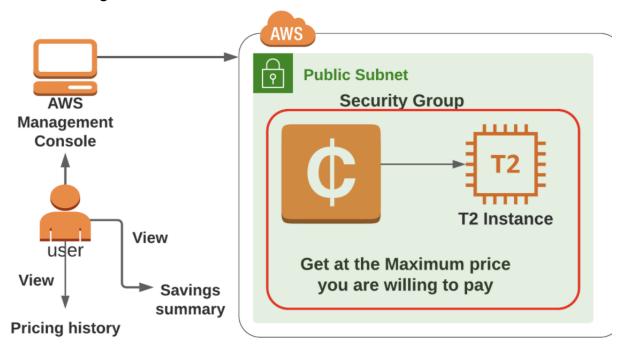
## What is EC2 Spot Instane?

- Spot Instance are an unused part of Amazon EC2, using which you can save up to 90% on cost as compared to On-Demand but AWS can interrupt your spot instances if the Current Price is higher than the Maximum price you specified.

### Objective:

 We will launching an EC2 Spot Instance and we'll explore the Savings Summary and Price History

### **Architecture Diagram:**



Step 1: Launch an EC2 Instance

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0ab4d1e9cf9a1215a (64-bit x86) / ami-0d296d66f22f256c2 (64-bit Arm)

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Select

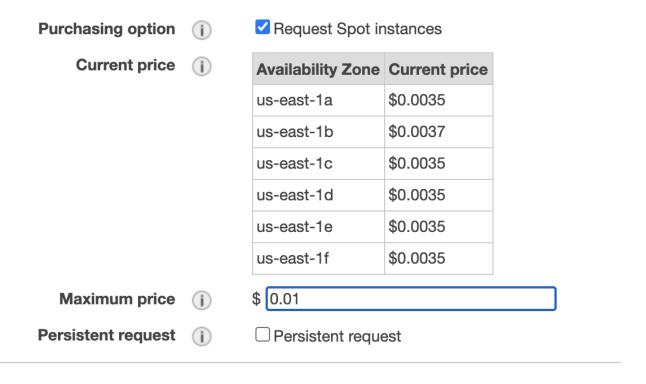
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc
2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on 64-bit (Arm)

December 31, 2020 and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Choosing an Instance Type

- Configuring Instance Details
  - While configuring instance details, we also request spot instances.



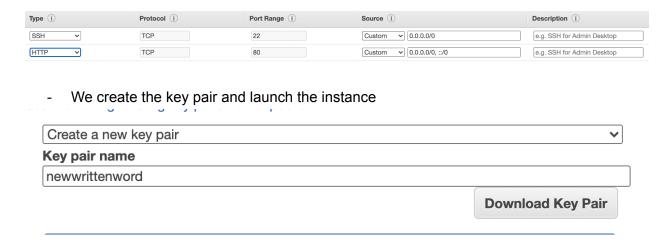
We then add the EBS Volume storage to the instance.



We then add the tags consisting of a key/value pair.



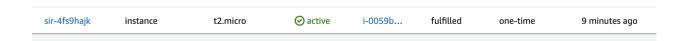
- We then configure the security group which is a set of firewall rules that control traffic to your instance.



We then test the instance by testing it on a browser with the utilization of the IP address. It shows that the instance is working.

# Welcome to Whizlabs Server

**Step 2: View The Spot Request** 



Request ID Max price Request type sir-4fs9hajk \$0.010 instance Persistence Created Key pair name one-time 07/02/2021, 8:39 am State IAM role Status fulfilled EBS-optimized Monitoring Instance Id i-0059b6775b409049e 🔼 no no Interruption behavior Instance type(s) default terminate t2.micro Product description ami-0ab4d1e9cf9a1215a subnet-7be84745 Linux/UNIX Availability Zone Launch group Request valid from us-east-1e Request valid until Availability Zone group

# **Step 3: Explore the Saving Summary and Pricing History**

- Here's the saving summary across all of the running and recently terminated spot instances.

### Spot usage and savings

1	1	1	\$0.01	\$0.00	70%
Spot Instances	vCPU-hours	Mem(GiB)-hours	On-Demand total	Spot total	Savings
				\$0.0035	\$0.0035
				Average cost per VCPU-hour	Average cost per mem(GiB)-hour
<b>5</b>					

### **Details**

t2.micro (1) 1 vCPU hours 1 mem(GiB)-hours \$0.00 total 70% savings	gs	70% savings	\$0.00 total	1 mem(GiB)-hours	1 vCPU hours	t2.micro (1)

- Here's the pricing history consisting of instance type requirements, budget requirements, and applicatio design.

