

AWS Requirements (From 6.19)

This document is intended to explain the Requirements of an Amazon Web Services (AWS) Instance in order to run different Nextthink Appliances considering our Hardware Requirements.

Introduction

AWS uses Elastic Compute Cloud (EC2) which allows users to manage and launch "Instances", which are their Virtual Machines in the Cloud. EC2 allows flexibility and scalability for your environments, which means you can modify and improve the Instance resources easily.

There are different Instance Types and categorized in five main groups:

- **General Purpose** (T2, M4, M3)
- **Compute Optimized** (C4, C3)
- **Memory Optimized** (X1, R4, R3)
- **Accelerated Computing Instances** (P2, G2, F1)
- **Storage Optimized** (I2, D2)

These Instances are oriented to different use cases, and they charge you for the usage depending on the balance each has. For example, Memory optimized Instances will charge you less money when using RAM in our Instance as this type is intended for in-memory Databases, which uses a lot of RAM all the time.

For more information and full details on the Instance Types, please visit: <https://aws.amazon.com/ec2/instance-types/>

AWS Requirements

Account type requirements ?

Permissions, Roles ?

Nextthink Requirements

The information below takes the Hardware Requirements reference table from our documentation, and contains the EC2 instance types that are closest to fit the On Premise Official Hardware Requirements.

Therefore, there might be some Instances that have more or slightly less resources than the actually needed by the Appliance. But they must be chosen since there is no other Instance type that suits for some specific Appliance setups.

Portal Appliance:

Max devices	Max complexity	Memory	Data disk size	Details (90 days)	CPU cores	Minimal Amazon AWS requirements
5k	2000	12GB	60 GB	60 GB	2	m4.xlarge with HDD sc1
10k	2000	13GB	100 GB	120 GB	4	m4.xlarge with HDD sc1
20k	4000	17GB	200 GB	220 GB	4	r4.xlarge with HDD sc1
50k	12000	23GB	300 GB	450 GB	6	m4.2xlarge or m5.2xlarge with HDD sc1
100k	40000	41GB	600 GB	700 GB	6	r4.2xlarge or r5.2xlarge with HDD sc1
150k	60000	59GB	1 TB	1 TB	8	r4.2xlarge or r5.2xlarge with HDD sc1

Engine Appliance:

Max Events	Max devices / with Web & Cloud	Max entities	Minimal Amazon AWS requirements
20M	500 / 500	20	c5.large with HDD sc1
50M	3k / 2k	100	c5.2xlarge with HDD sc1
50M	5k / 3-4k	250	c5.2xlarge with HDD sc1
100M	10k / 6-8k	100	c5.4xlarge with SSD gp2
100M	10k / 6-8k	500	c5.4xlarge with SSD gp2
200M	10k / 8k	100	c5.4xlarge with SSD gp2
200M	10k / 8k	500	c5.4xlarge with SSD gp2
>200M	ask	ask	ask

Special considerations:

- Many AWS EC2 Instance types far exceed the Minimum Hardware requirements, and some slightly lack CPU requirements. This is due to the way they are predefined. Customer may evaluate that is the best for them, always considering that choosing an instance lacking number of CPU cores might present slight slowness or small performance issues.
- Ideally, we recommend to use the instance types that far exceed our hardware Requirements, to avoid having performance issues or experiencing slowness when running investigations.