

# Amazon Web Services (AWS)

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Amazon Web Services allows the creation of Virtual Machines in a Cloud environment. A user can create anything from a single VM running a web server, to a multi server system containing many Virtual Machines. Everything you create in AWS has a potential cost, and these items are (but not limited to):

Processor (vCPU) type and quantity  
Amount of RAM  
Amount and Type of Storage  
Selected OS

For this overview, we are going to be using the Free Tier components, this means we can create an AWS virtual machine with components that cost nothing for the first 12 months. Actually, if you don't exceed your resources, you can play with the numbers, you actually get 750 hours per month on the t2Micro server. This means, you could run two servers for two weeks without incurring charge, but they would have to be down for half the month as well.

This example uses the free tier server, RAM and HDD options to give you a server that you can run for free, for 12 months. When I say **run** this is important, running a server might be free, but if you start to move a lot of data into or out of this server, you may also incur costs, so be careful (there is a built in cost explorer, you can set alerts for charges and you can see any charges very easily.)

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## Topics

- [Creating an Amazon AWS EC2 Instance](#)
- [Elastic IP Address](#)
- [Elastic IP Address and DNS](#)
- [Transferring files to an EC2 Instance](#)
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