Client VPN VS Bastion Host   
price comparison

# Client VPN:

## Pricing base:

|  |  |
| --- | --- |
| AWS Client VPN endpoint association | $0.10 per hour |
| AWS Client VPN connection | $0.05 per hour |

Advantage of the service:

* Manged service, without the need of too much configurations
* You will need to download only a VPN Client (AWS VPN Client)
* Can be configured on the console

Disadvantage of the service:

* Configuration on the console requirese a bit more knowledge about the Service
* More pricier than other solutions

## Pricing example: AWS Client VPN with 1 clients 8 hours per day

Using the above informations if you will have only 1 client who uses the connection 8 hours per day and only for 22 days the pricing will be the following:

The endpoint association base price: $0.10 per hour  
22 days \* 8 hours = 176 hours of usage  
176 \*0.10 = **$17.6**   
AWS Client VPN connection base price $0.05 per hour  
22 days \* 8 hours = 176 hours of usage  
176 \*0.10 = **$8.8**   
  
In this use case total price would be:  
17.6+8.8 = **$26.4 per month**

## Pricing example: AWS Client VPN with 10 clients (high usage!)

You create an AWS Client VPN endpoint in US East (Ohio) and associate it with one subnet. You then create **10 Client VPN** connections to your AWS Client VPN endpoint.   
These connections are active for **one hour.**

AWS Client VPN endpoint hourly fee:   
For this AWS Region, you pay $0.10 per hour in AWS Client VPN endpoint hourly fees.

AWS Client VPN connection hourly fee:   
Ten AWS Client VPN connections were active for 1 hour. You pay $0.50 per hour in AWS Client VPN connection fees.

In this scenario, you pay **$0.60 per hour** for AWS Client VPN.  
  
**In this example at the end of the month it would be around $432 dollars per month!**  
*PerHour\*OneDay\*OneMonth*  
*(0.60\*24)\*30*

## Bastion host

You have two kind of access options here but both include havin an EC2 instnace for it.  
The basics is creating an EC2 instance for this purpose which will be able to reach the database.  
As this is only a „jump host” it does not needs to be a big instance as it will only handle your network access nothing else.  
  
From small instance options heres a few recommended with On Demand pricing:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **API Name** | **Instance  Memory** | **vCPUs** | **Network Performance** | **On Demand** |
| T3 Nano | [t3.nano](https://instances.vantage.sh/aws/ec2/t3.nano) | 0.5 GiB | [2 vCPUs for a 1h 12m burst](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/t2-instances.html) | Up to 5 Gigabit | $4.1610 monthly |
| T2 Nano | [t2.nano](https://instances.vantage.sh/aws/ec2/t2.nano) | 0.5 GiB | [1 vCPUs for a 1h 12m burst](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/t2-instances.html) | Low to Moderate | $4.5990 monthly |
| T3 Micro | [t3.micro](https://instances.vantage.sh/aws/ec2/t3.micro) | 1.0 GiB | [2 vCPUs for a 2h 24m burst](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/t2-instances.html) | Up to 5 Gigabit | $8.3220 monthly |
| T2 Micro | [t2.micro](https://instances.vantage.sh/aws/ec2/t2.micro) | 1.0 GiB | [1 vCPUs for a 2h 24m burst](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/t2-instances.html) | Low to Moderate | $9.1980 monthly |
| T3A Small | [t3a.small](https://instances.vantage.sh/aws/ec2/t3a.small) | 2.0 GiB | [2 vCPUs for a 4h 48m burst](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/t2-instances.html) | Up to 5 Gigabit | $14.8920 monthly |

Advantage of the service:

* Fast and cheap solution on the longrun
* We can provide you a tutorial for this

Disadvantage of the service:

* You will need to create the instance yourself
* Need to attach SSM role or install SSM agent on the EC2
* You will need to configure the security groups

## Pricing example: Using the EC2 instance 24/7

In case you would have the instance running for the whole month, without stopping it, you can see even the most expensive EC2 instance would be **around $15 dollars per month**!

Pricing example: Using the instance for only 8 hours per day for 22 workdays only:  
In other calculations if you a t3.micro instance only 8 hours per day in a month it would cost you  
**Instance: 0.012/Hour  
Monthly: 2.11/Month***There are 176 hours usage per month if it is used 8hours per day for 22 days in a month.*  
  
This price can be even more lower if you reserve this instance upfront, and buy it for a year or more.