

# Set the Instance Type

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When creating an Instance, you have many choices for hardware, these choices include (but are not limited to):

- How many CPUs (vCPU)
- How much RAM
- How much Hard Disk Space
- Permanent Storage (S3 Buckets)
- Data transfer per month
- DHCP or Elastic IP Addresses

For a server that is hosting thousands of people, this will require some dimensioning to calculate the projected requirements. However, for our test script we can use the lowest available (and free while in your free tier period) Instance.

When you manually create an EC2 Instance, you will be presented with a list of options regarding the Instance Type, here is part of that list of options:

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	10 Gigabit	Yes
<input type="checkbox"/>	General purpose	m4.16xlarge	64	256	EBS only	Yes	20 Gigabit	Yes

Above we can see that the t2.micro is the default free tier server, and this is the one we shall use in our example. The t2.micro has the following hardware specification.

t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

So for our script, the instance type will be:

```
instance_type = "t2.micro"
```

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