AWS USAGE EXAMPLE

1. Go to aws.amazon.com and sign in to the console
2. Launch a virtual machine

AWS Management Console

AWS services

Find Services
You can enter names, keywords or acronyms.

🔍 Example: Relational Database Service, database, RDS

▼ **Recently visited services**

📄 Billing   📑 AWS AppConfig   🖼 WorkSpaces

🖥 EC2   📑 Systems Manager

▶ **All services**

Build a solution
Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes

Build a web app
With Elastic Beanstalk
6 minutes

Build using virtual servers
With Lightsail
1-2 minutes

Register a domain
With Route 53
3 minutes

2

3. Choose an Amazon Machine Image (AMI) depending on your requirements: OS, Libraries, etc.

Examples of AMIs

4. Choose an Instance Type

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

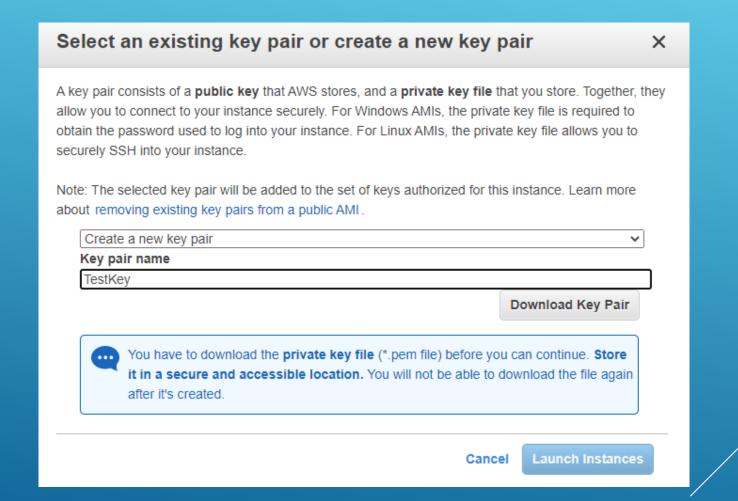|	Family	Type	vCPUs (i)	Memory (GiB)	Instance Storage (GB) (i)	EBS-Optimized Available (i)	Network Performance (i)	IPv6 Support (i)
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☑	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
☐	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
☐	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
☐	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
☐	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
☐	General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
☐	General purpose	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes

Examples of instance
types

4

4. For now we can just accept default parameters on Configure Instance Details and Add Storage steps
5. Use tags to provide additional information about our server

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.

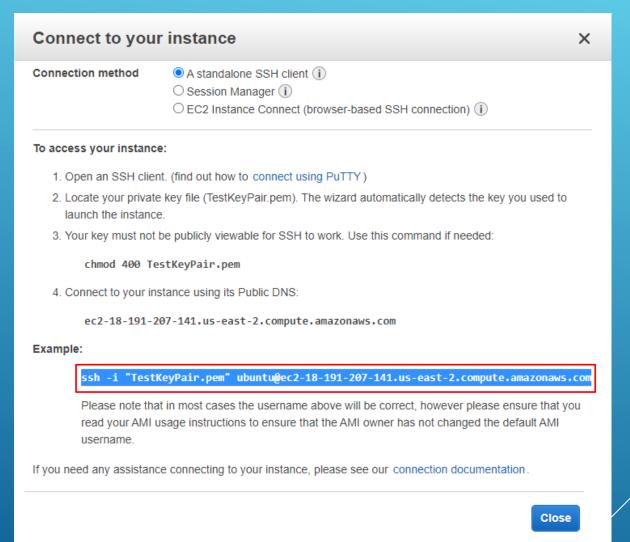| Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ	Volumes ⓘ	
Name	UbuntuServer	☑	☑	✕
Type	MachineLearning	☑	☑	✕
Purpose	Testing	☑	☑	✕

Add another tag   (Up to 50 tags maximum)

6. Review Instance and click "Launch"

5

7. Now choose "Create a new key pair"
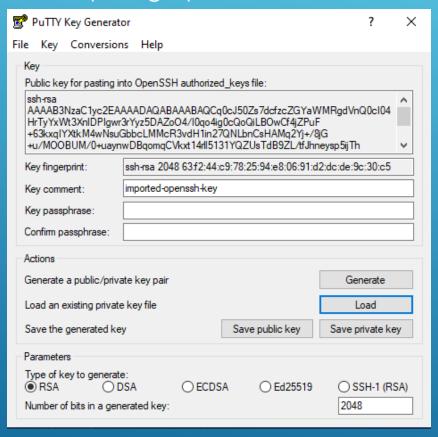8. Create a name for a key pair and memorize it
9. Download Key Pair

6

If you use Ubuntu:
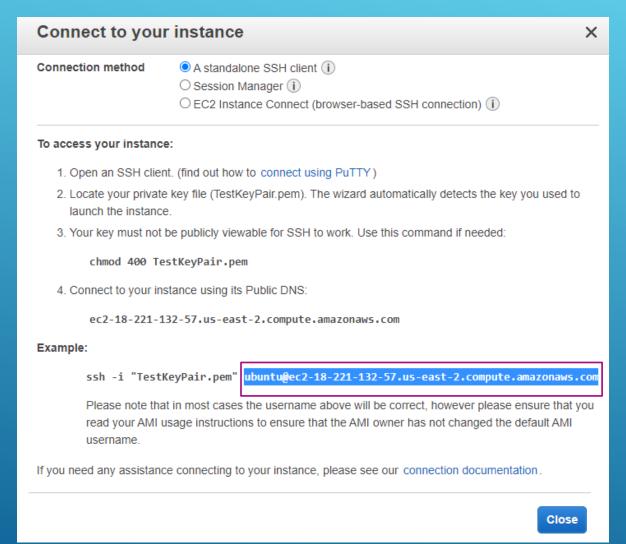10. You can run ssh connection using terminal. Use username "ubuntu" if you chose Ubuntu AMI

If you use Windows:
10. Download and install PuTTY
(https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html)
11. Open PuTTYgen and load .pem key file
12. Choose "Save private key" option. The saved key should have the same name as Key Pair name from paragraph 9

13. Press "View instances"
14. Right click on instance you want to use and choose "Connect"
15. Copy address of the instance

16. Open PuTTY and paste address of the machine
17. Open Connection -> SSH -> Auth in PuTTY and choose .ppk file you saved
18. Click "Open" to connect to the machine. Use username "ubuntu" if you chose Ubuntu AMI