

# **EC2** = **E**lastic **C**ompute **C**loud

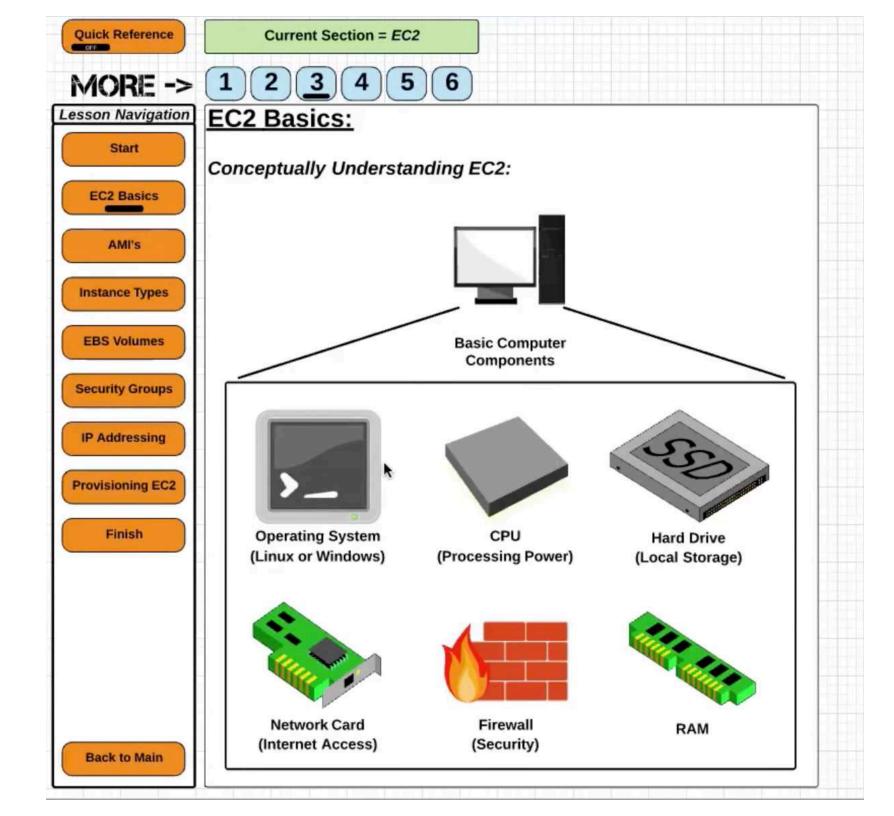
## What is EC2?

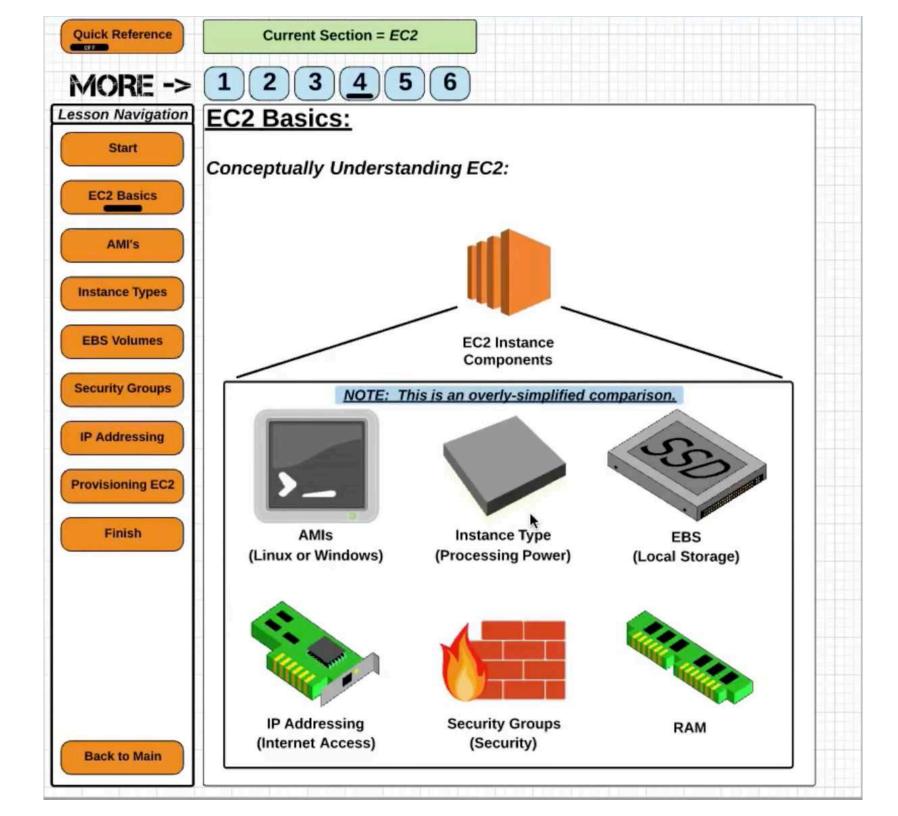
### Simplified Definition:

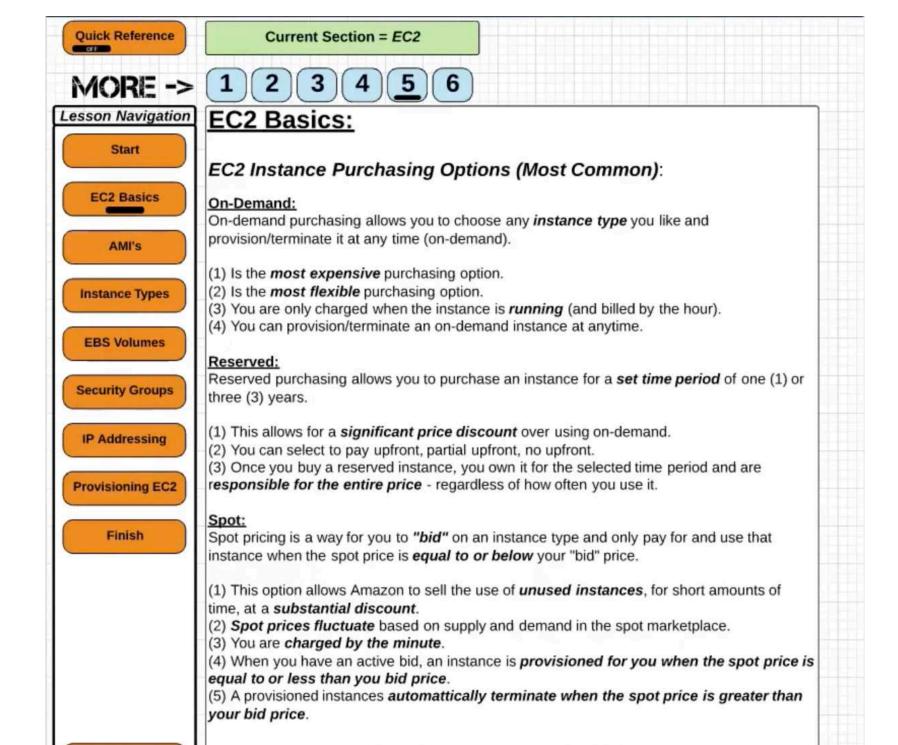
Think of EC2 as your basic desktop computer.

"Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic."



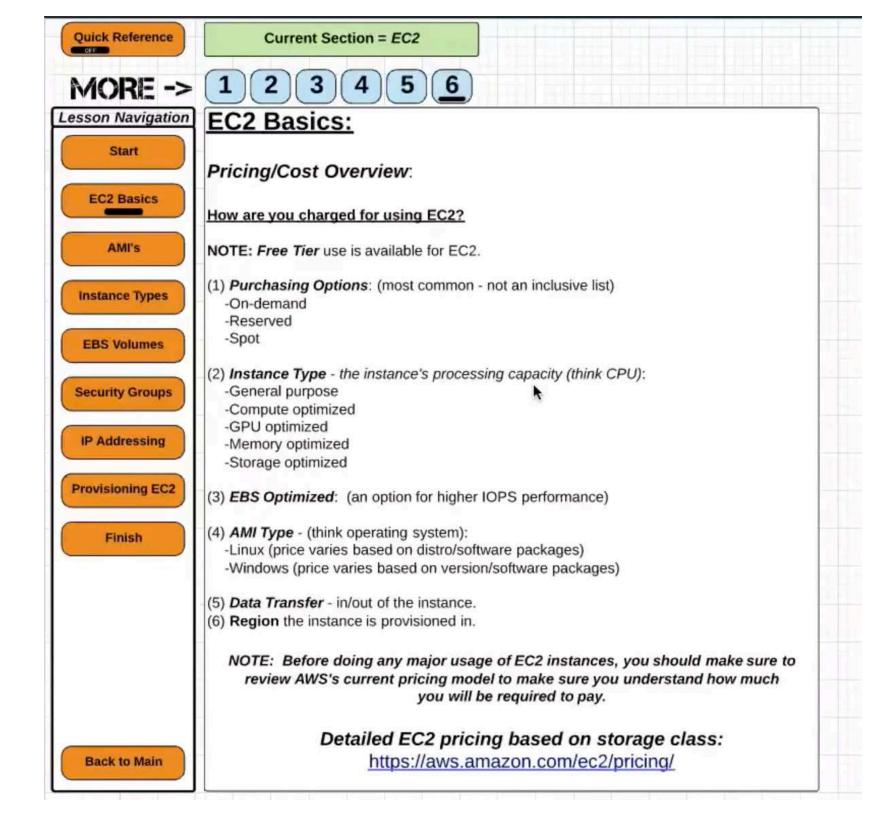


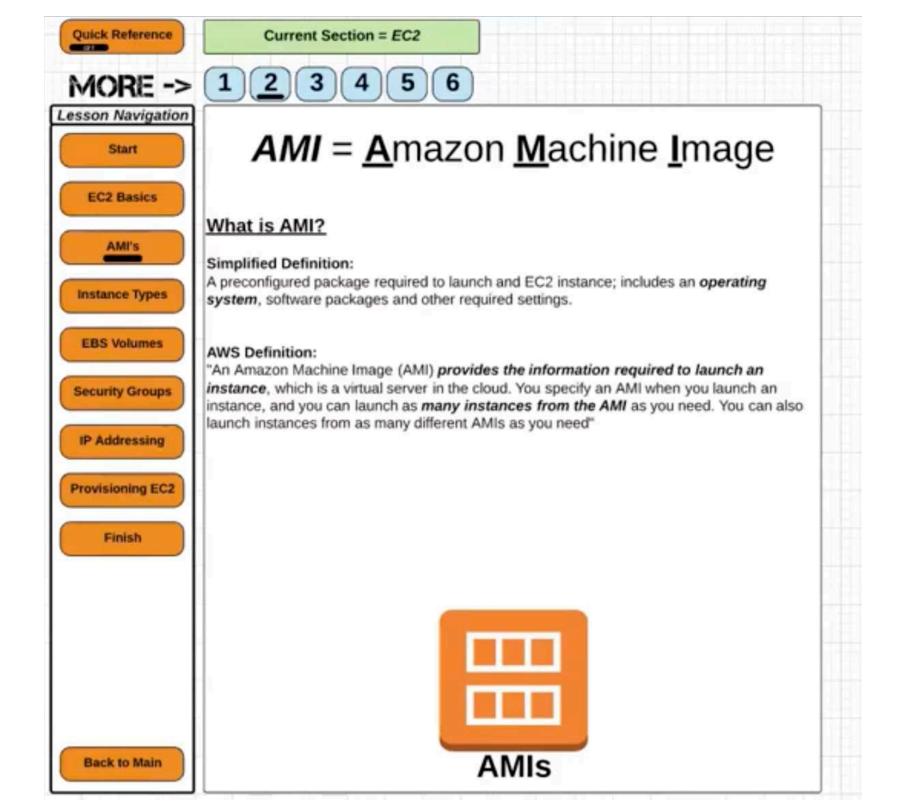


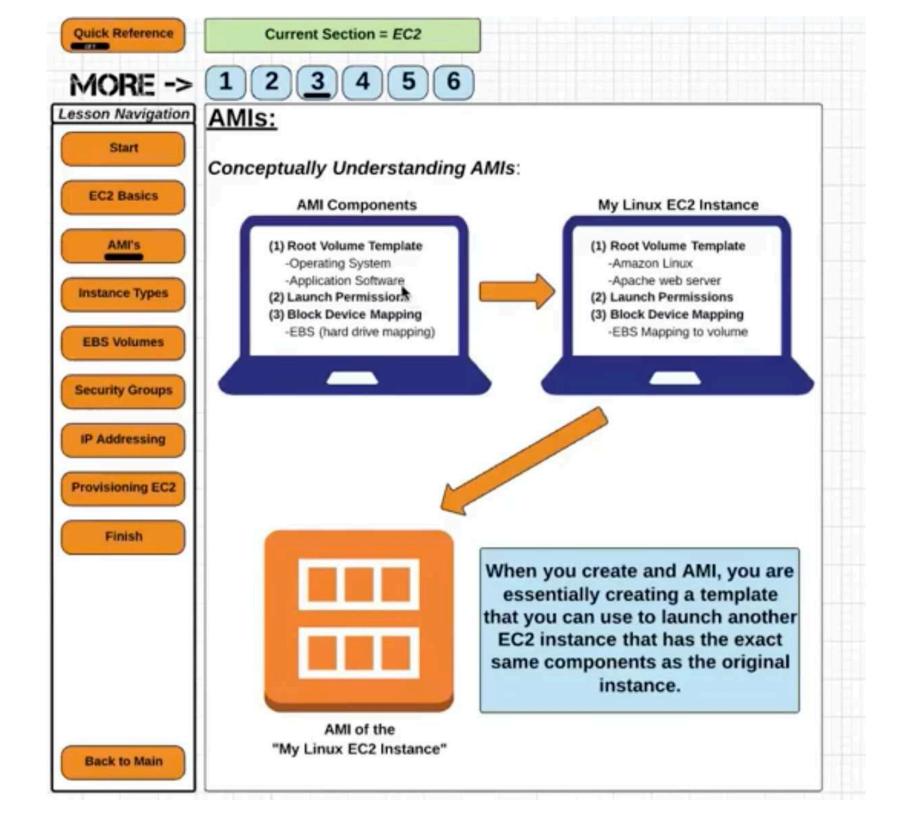


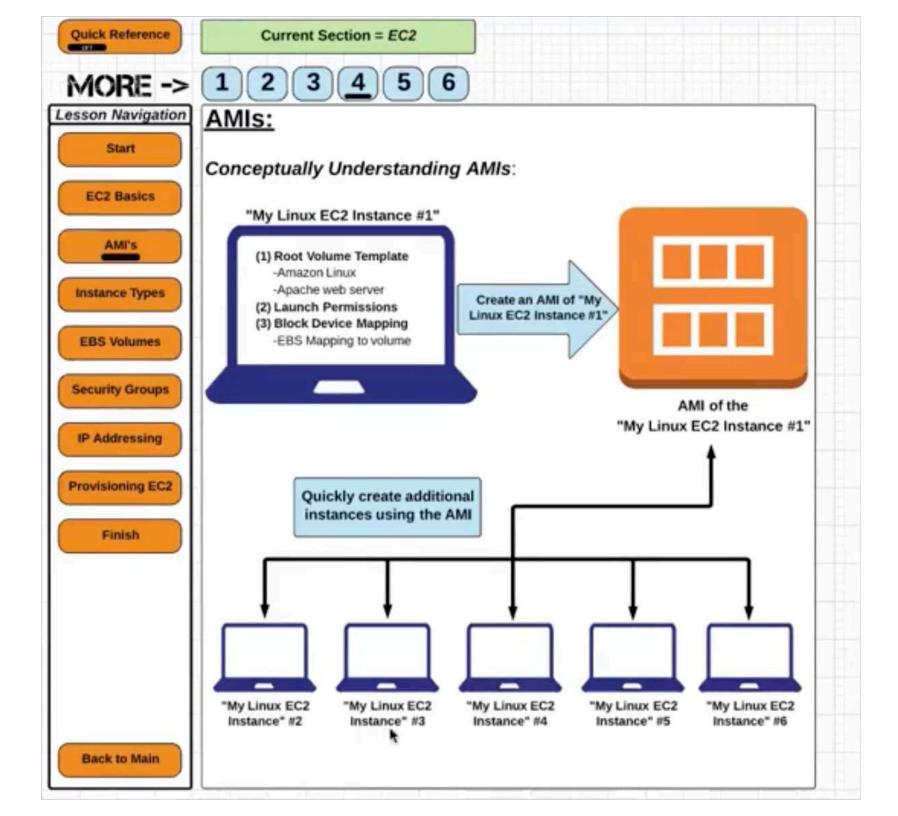
Full list of Instance Purchasing Options:

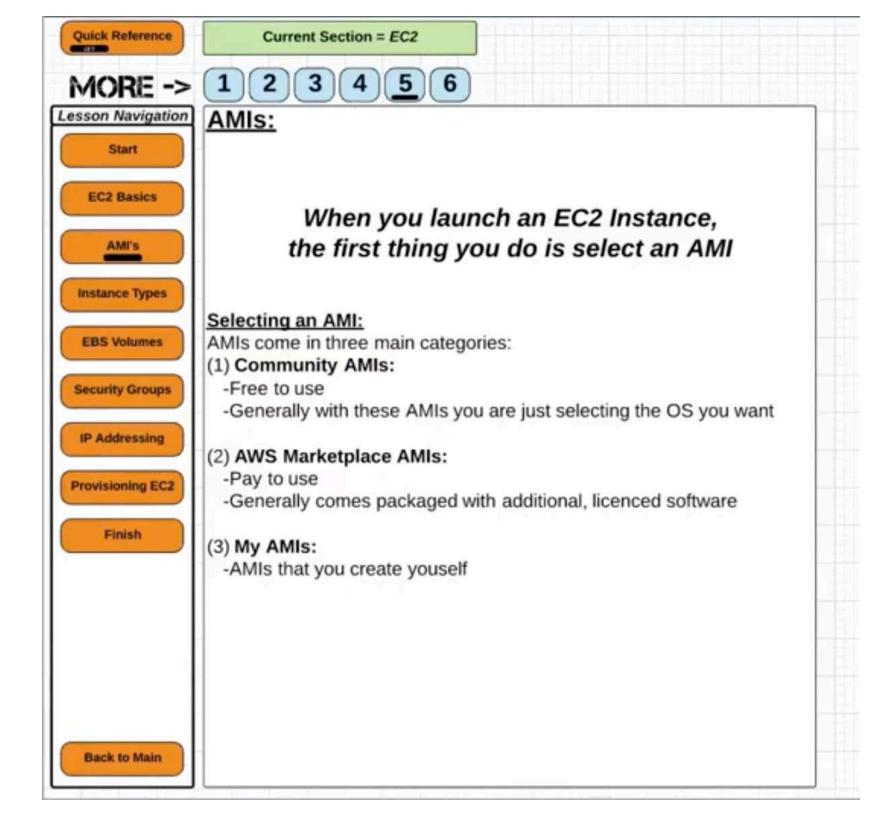
http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/instance-purchasing-options.html



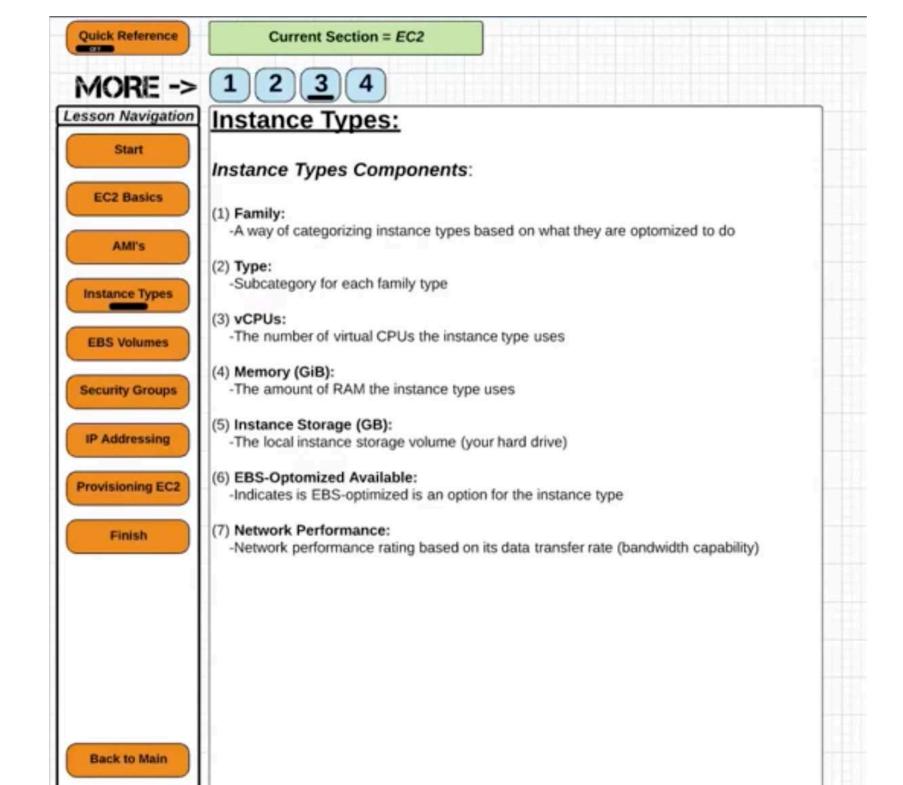


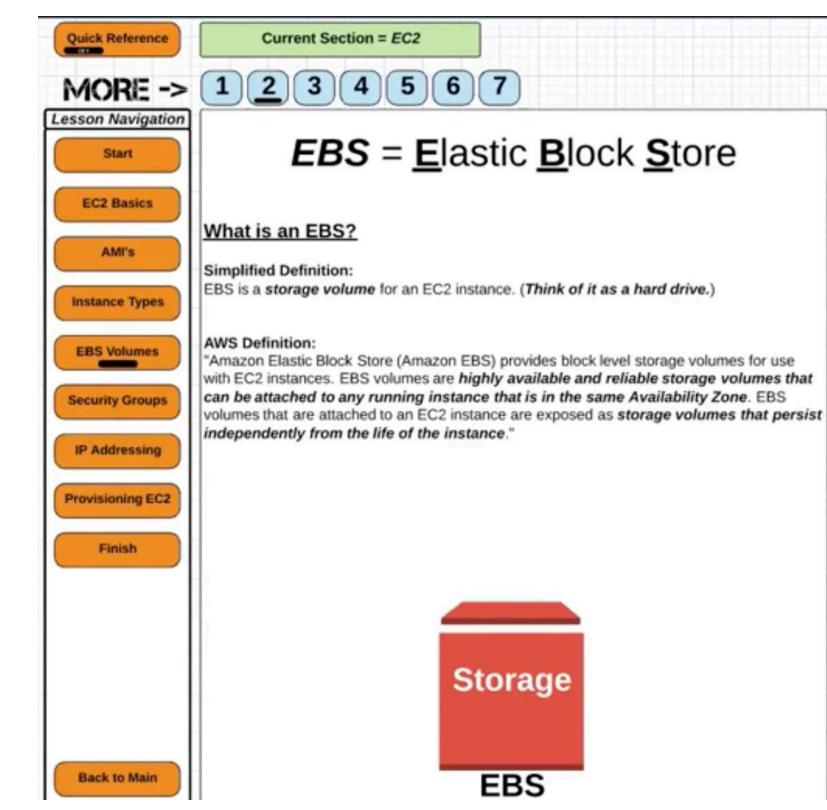


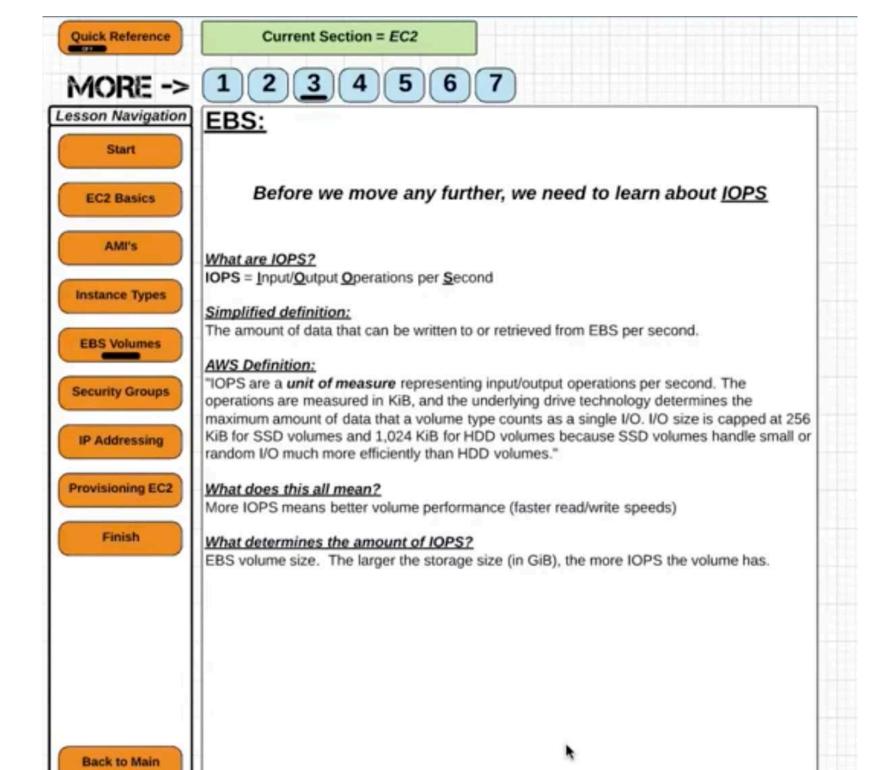


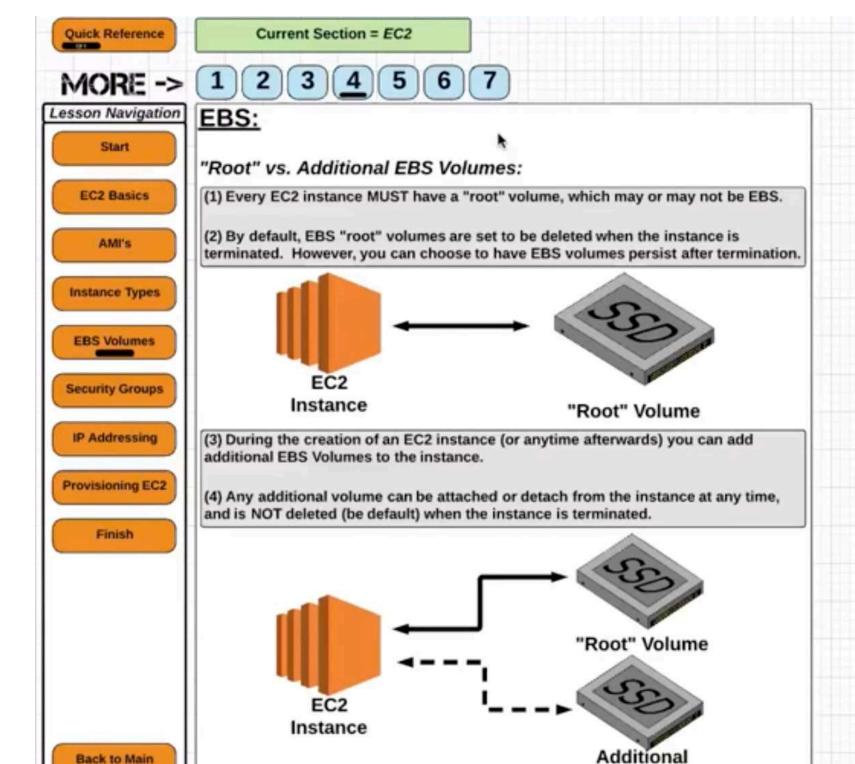




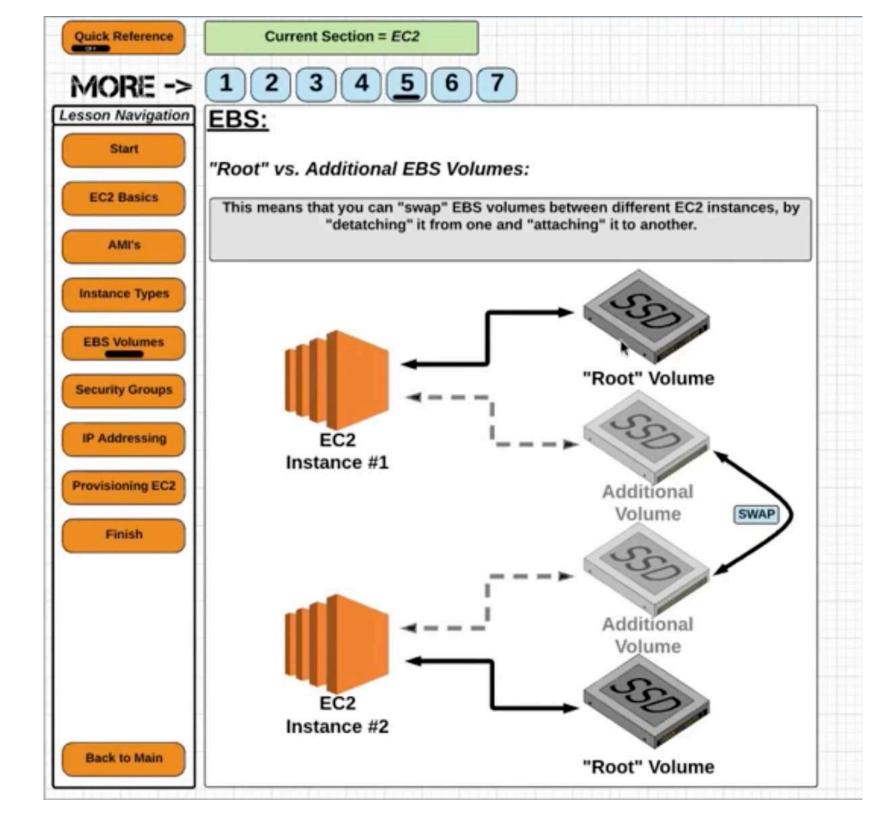


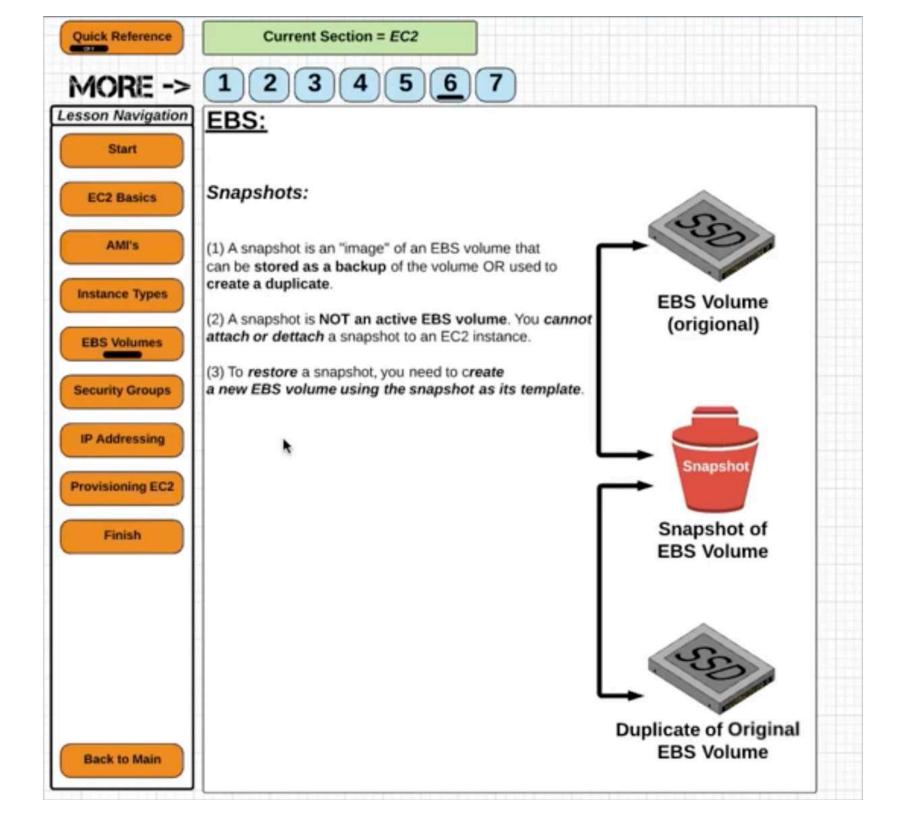


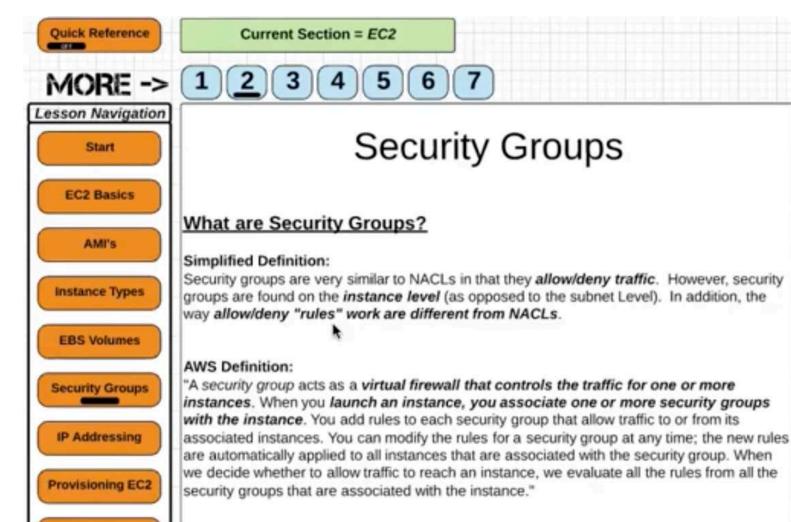




Volume







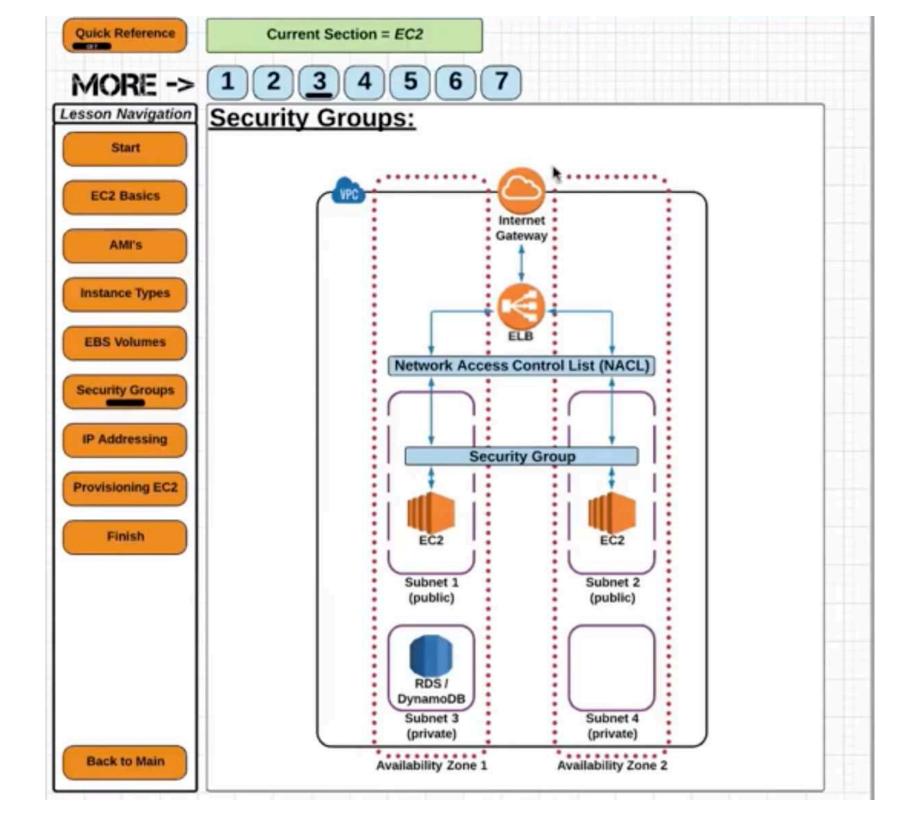
Sizawali

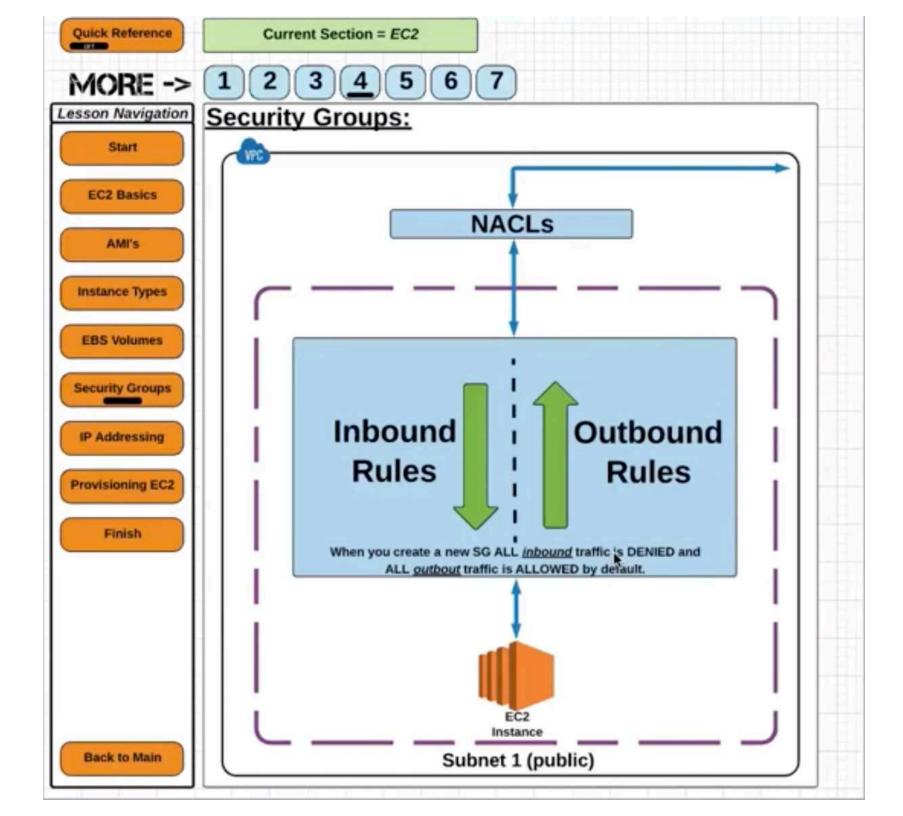


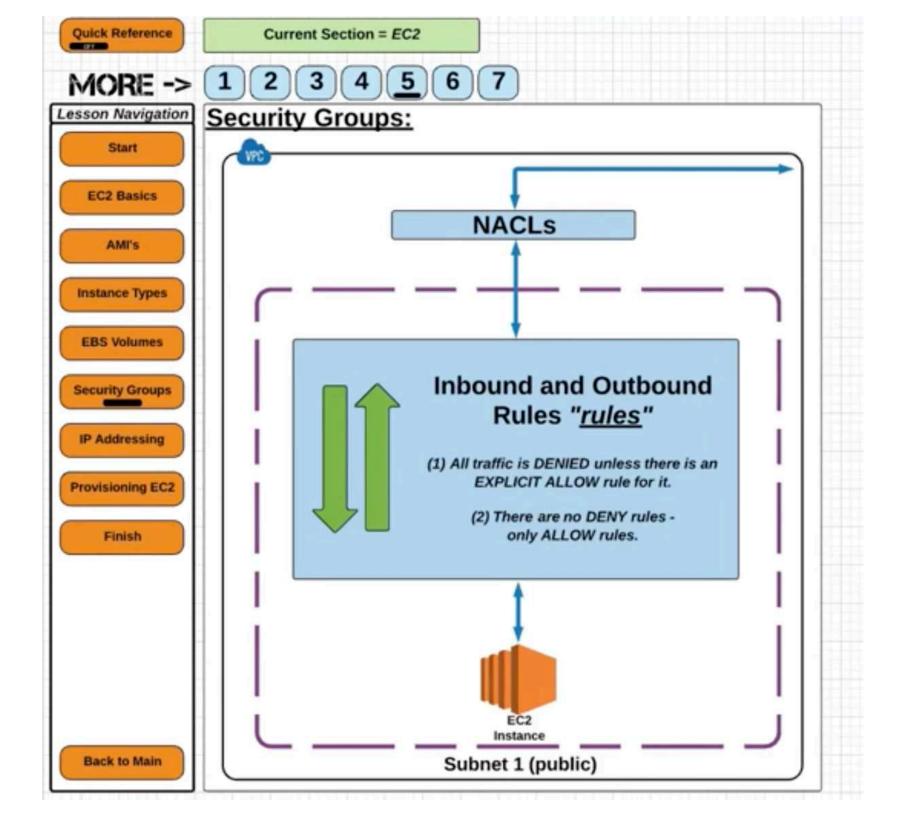
**Security Groups** 

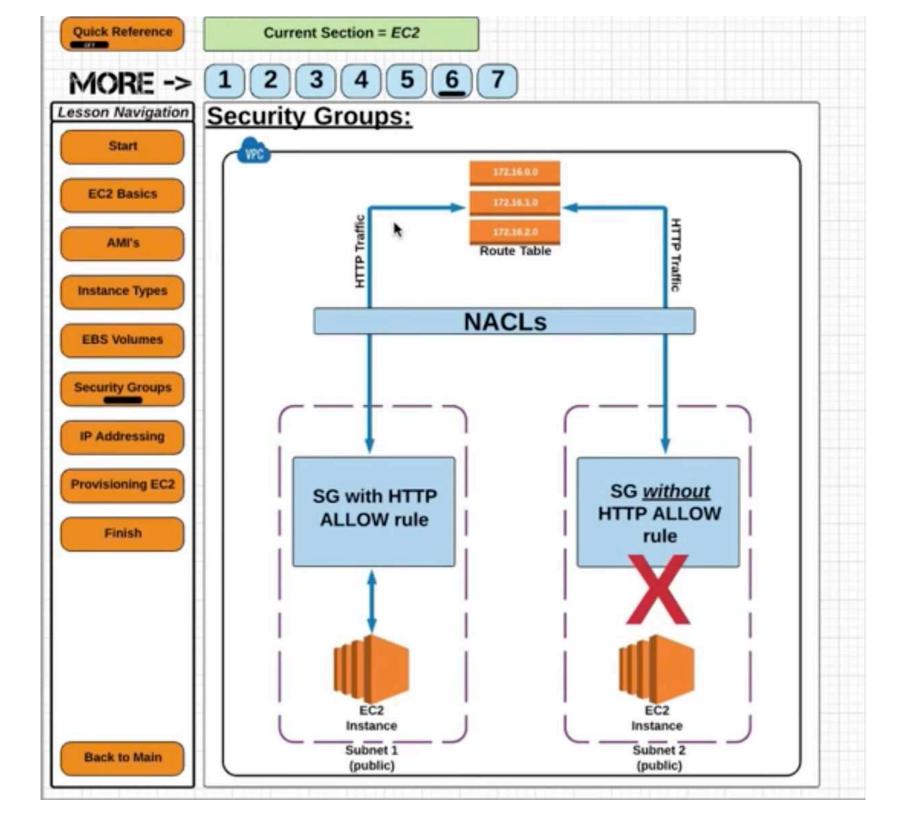
**Back to Main** 

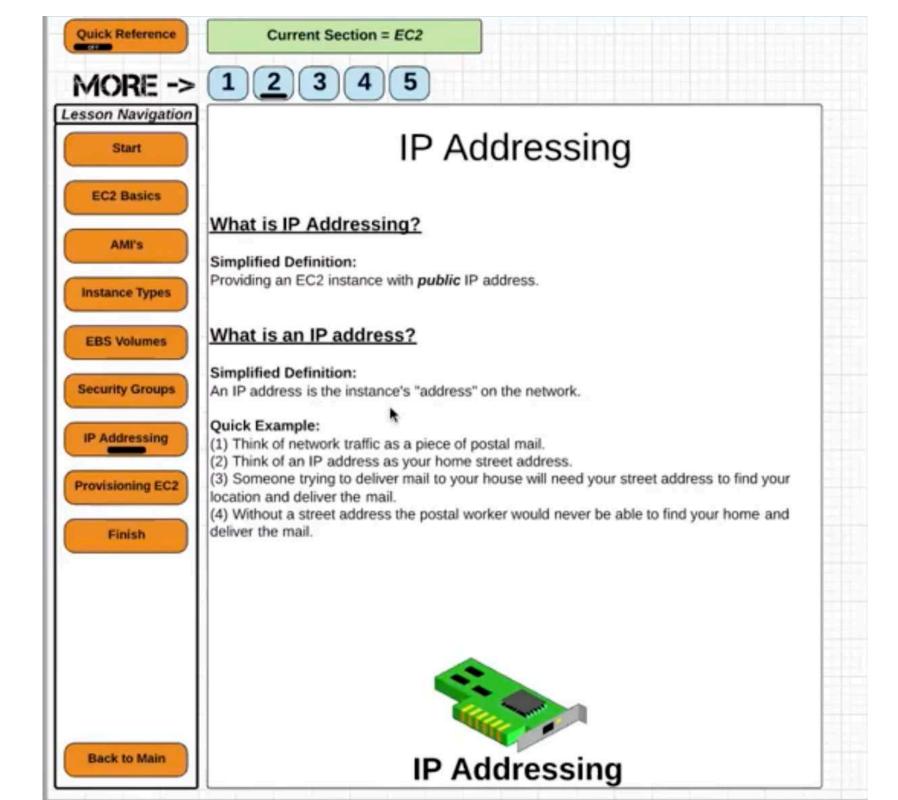
Finish

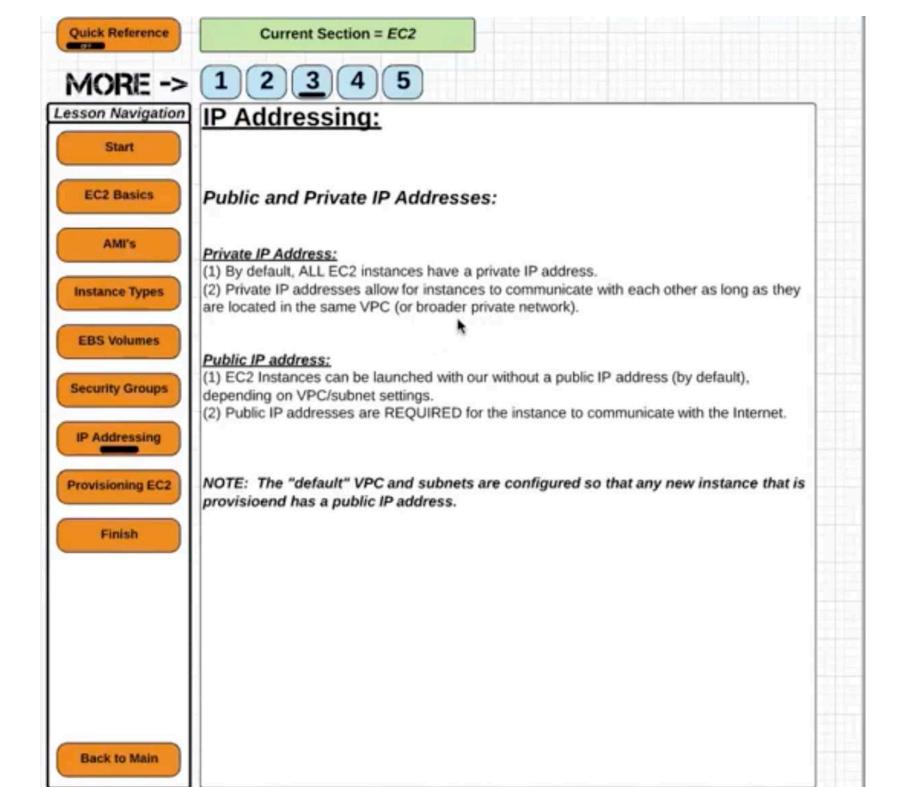


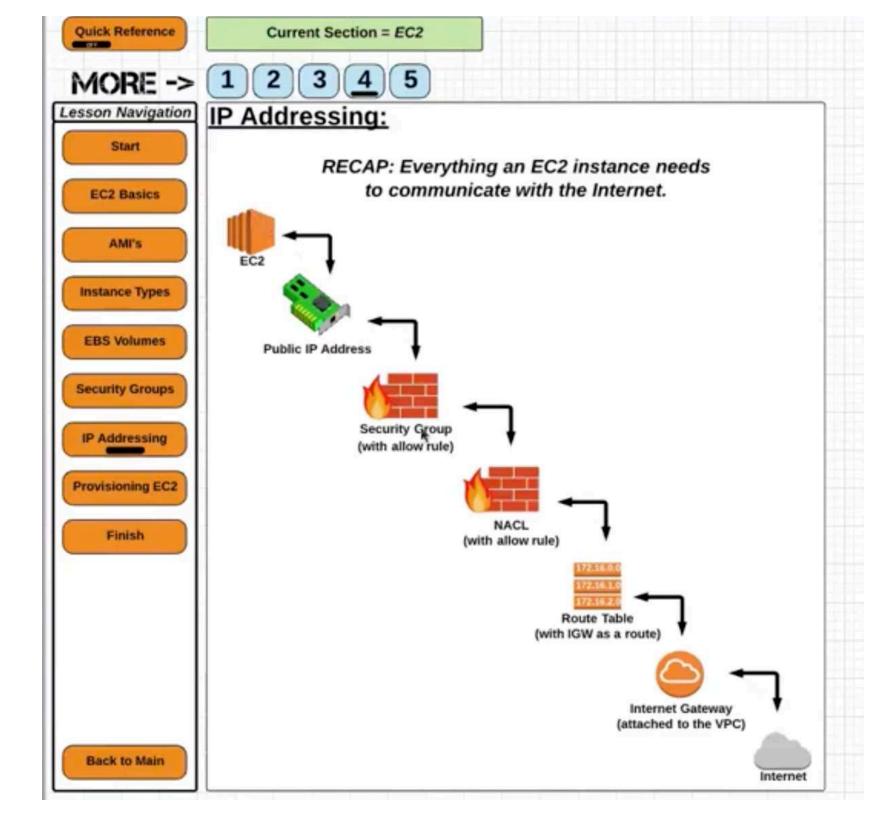


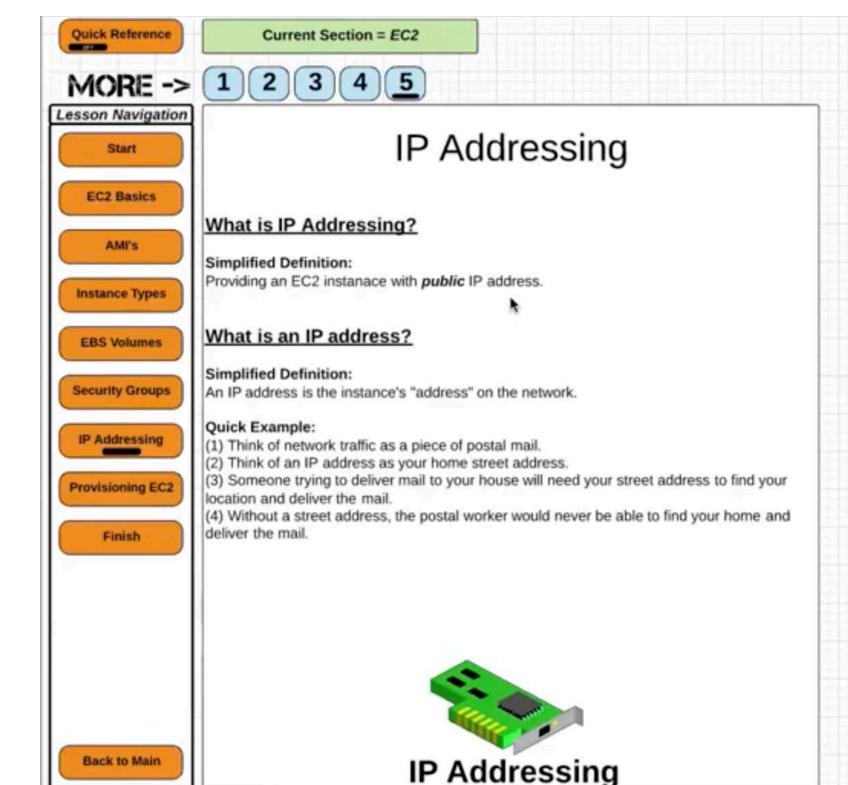


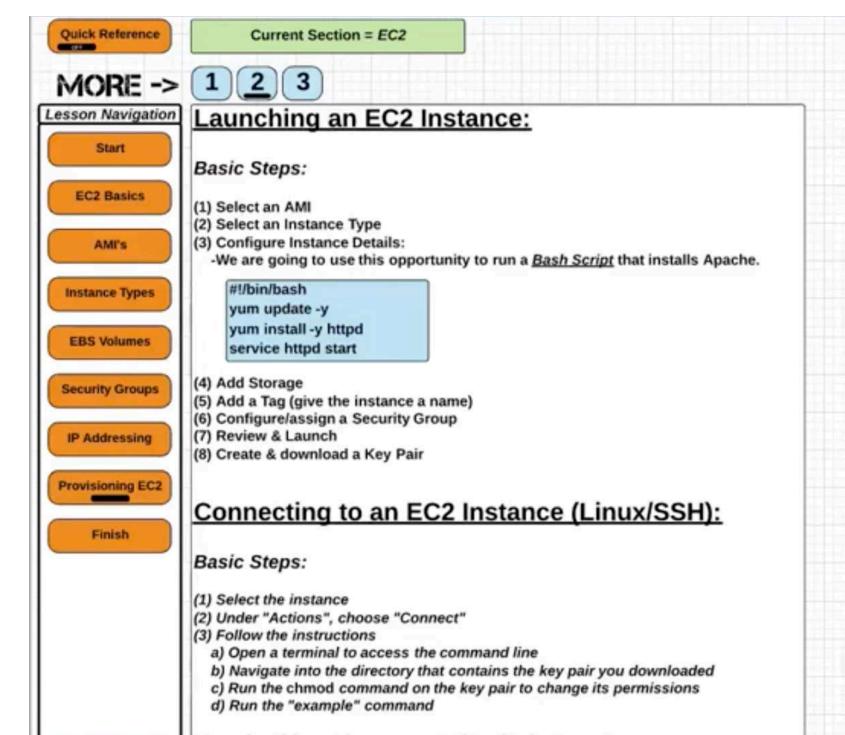












You should now be connected to the instance!

Quick Reference	Current Section = EC2
MORE ->	123
Lesson Navigation Start	<u>I</u>
EC2 Basics	Have you completed the Proje
АМГ'S	(1) An AWS account: (2) User accounts for the develop (3) Proper traffic routing into and
Instance Types	(4) A location for bulk storage of I (5) Servers to host and run Pro -One running EC2 instance us
EBS Volumes	<ul> <li>-With Apache server installed.</li> <li>-Verify that you can access the</li> </ul>

## Project Omega

## mpleted the Project Omega infrastrucutre requirements for this section?

- nts for the development team with access to core AWS services.
- ic routing into and out of our AWS Virtual Private Cloud (VPC).
- or bulk storage of files.
- host and run Project Omega.
  - g EC2 instance using the Amazon Linux AMI.
  - e server installed.
  - ou can access the Apache test page.
- (6) A database to store and catalog data.
  - (7) A way to sent notifications (email or text messages) to Project Omega's team members based on events that may occur with Projects Omega's infrastructure.
  - (8) A way to internally monitor parts of Project Omega's infrastructure.
  - (9) Automate the process of distributing incoming (external user) traffic evenly accross Project Omega's AWS resources.
  - (10) Automate the process of scaling up or scaling down AWS resources based on traffic demand.
  - (11) Set up and configure a web domain that points to Project Omega's infrastructure.
  - (12) Test the possibiliy of using "serverless" technology for Project Omega.

Security Groups

IP Addressing

Provisioning EC2

Finish