1. Go to the AWS EC2 Console
2. Navigate to ‘N. Virginia’ Region
3. Start a new Instance (server) based on one of our AMIs
   1. Click ‘Launch Instance’
   2. In the search box type: ‘CS403alphavpn’

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* 1. Click on ‘1 Results’ in Community APIs

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* 1. Click on ‘Select’, follow the prompts
  2. When you get to Step 6, make sure your security group is set-up like the following (UDP on Port 1194, and SSH on Port 22):

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* 1. Complete the rest of the prompts and Launch the Instance

1. Create your own AMI from this Server
   1. Once the Instance is running, select the Instance, then click “Actions”, “Image”, “Create Image”

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* 1. Give the image a name, click “Create Image”

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* 1. Navigate to “AMIs” under “Images” on the left side of the console. You should see your Image.

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1. Note the AMI image ID (AMI ID), and replace that value in our code. In the file “AlphaVPNFunctionsv4b.py”, the variable is near the top of the code, named “listOfCloneRegionAMIs”. Replace the AMI ID listed for us-east-1 (N. Virginia) with your AMI ID.
2. Now you can create a VPN (and hops) based on your new image, in the N. Virginia Region
3. To create VPNs in other Regions
   1. Copy your AMI to the other Region where you would like to stand-up a VPN
   2. On the AMI tab, click on your Image, then click “Actions”, “Copy AMI”

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* 1. In the first drop-down box, select the Region where you would like to copy your AMI, then click “Copy AMI”

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* 1. Note the AMI image ID, and add it to the code (as in Step 5 above)
  2. Now you can create VPN and Hop servers in this new Region

1. Rinse, Repeat for any other Regions. **Note**: there may be some cost for storing these images over time, check your charges.