jason.pang@senecacollege.ca

You must record your procedures with a Screen / Video Capturing software.

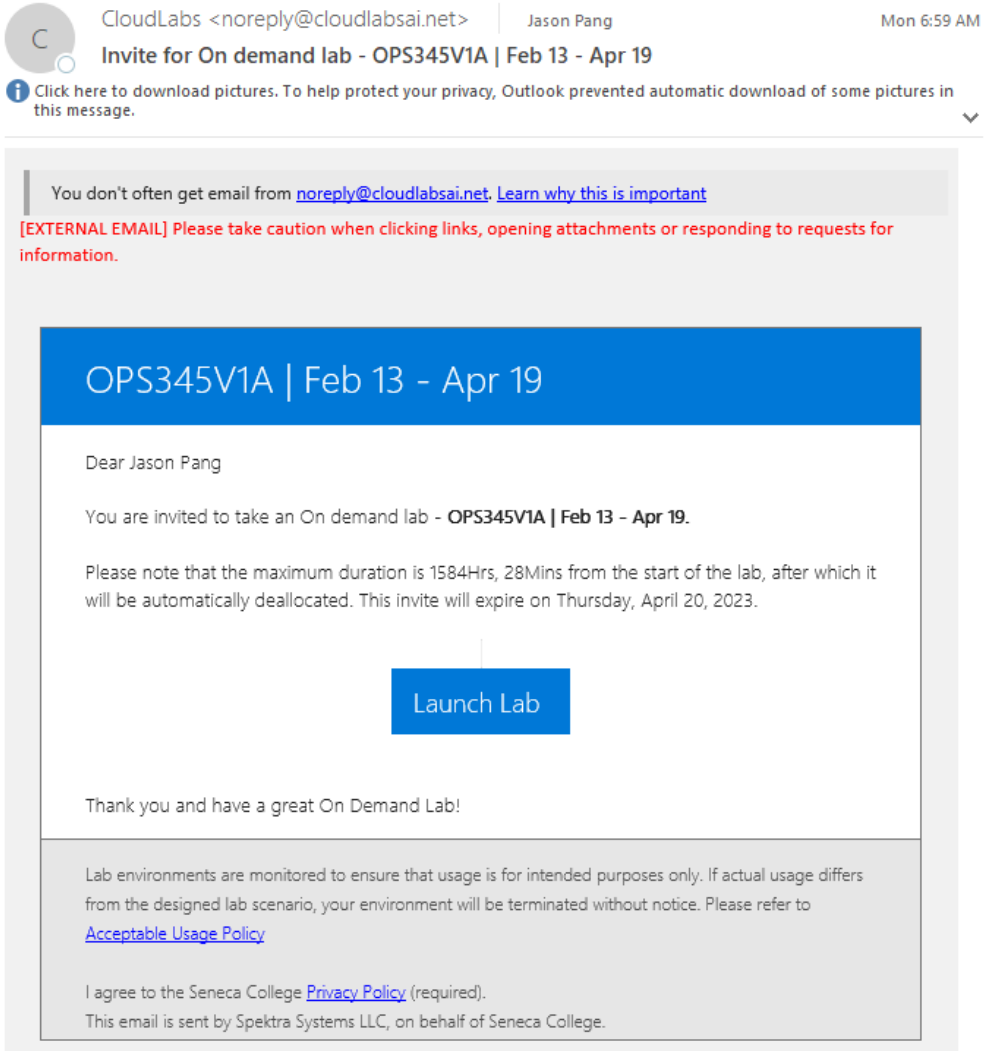
Windows build-in “Steps Recorder” is sufficient for this lab. However, a more robust Video Capture software is preferred.

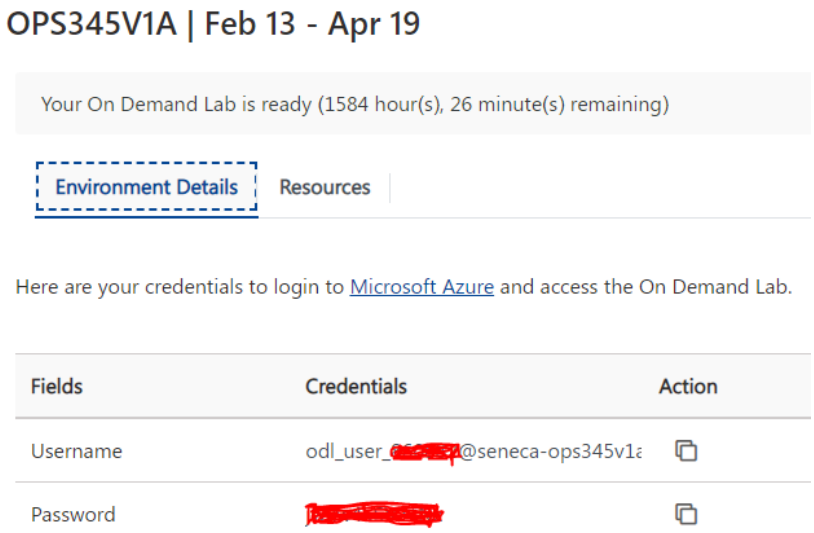
- Camtasia Studio (can be found from https://myapps.senecacollege.ca)
- Xbox Game Bar that comes with Windows OS. “⊞+G” to launch
- CamStudio (Free and performs well, though discontinued a while ago, no support)

For Mac users, please refer to https://support.apple.com/en-ca/HT208721

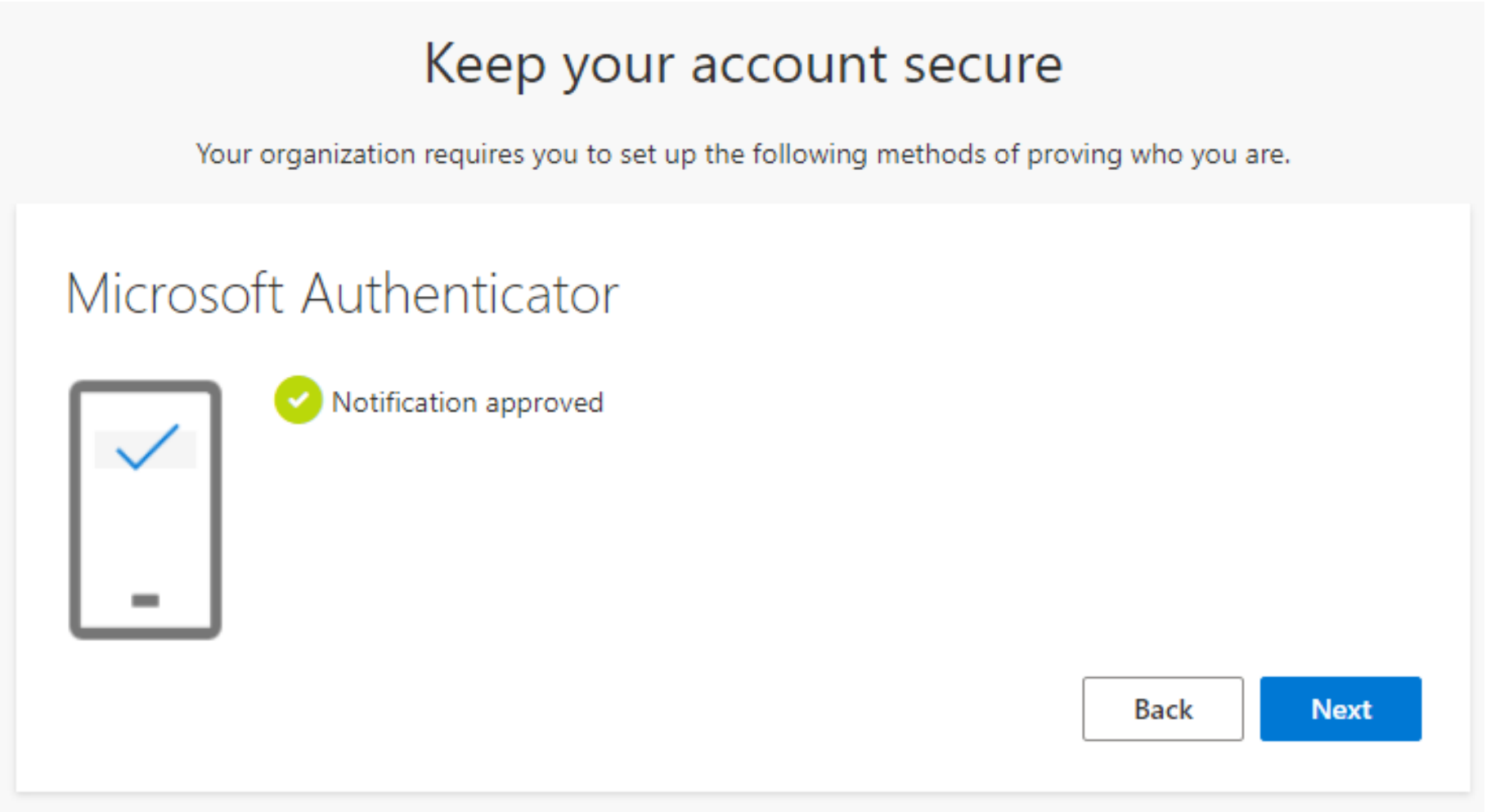
Validate your access to CloudLabs.

1. Check your Seneca email. You should have received an email from CloudLabs noreply@cloudlabsai.net where you will be able to retrieve the assigned username and password to login to https://portal.azure.com

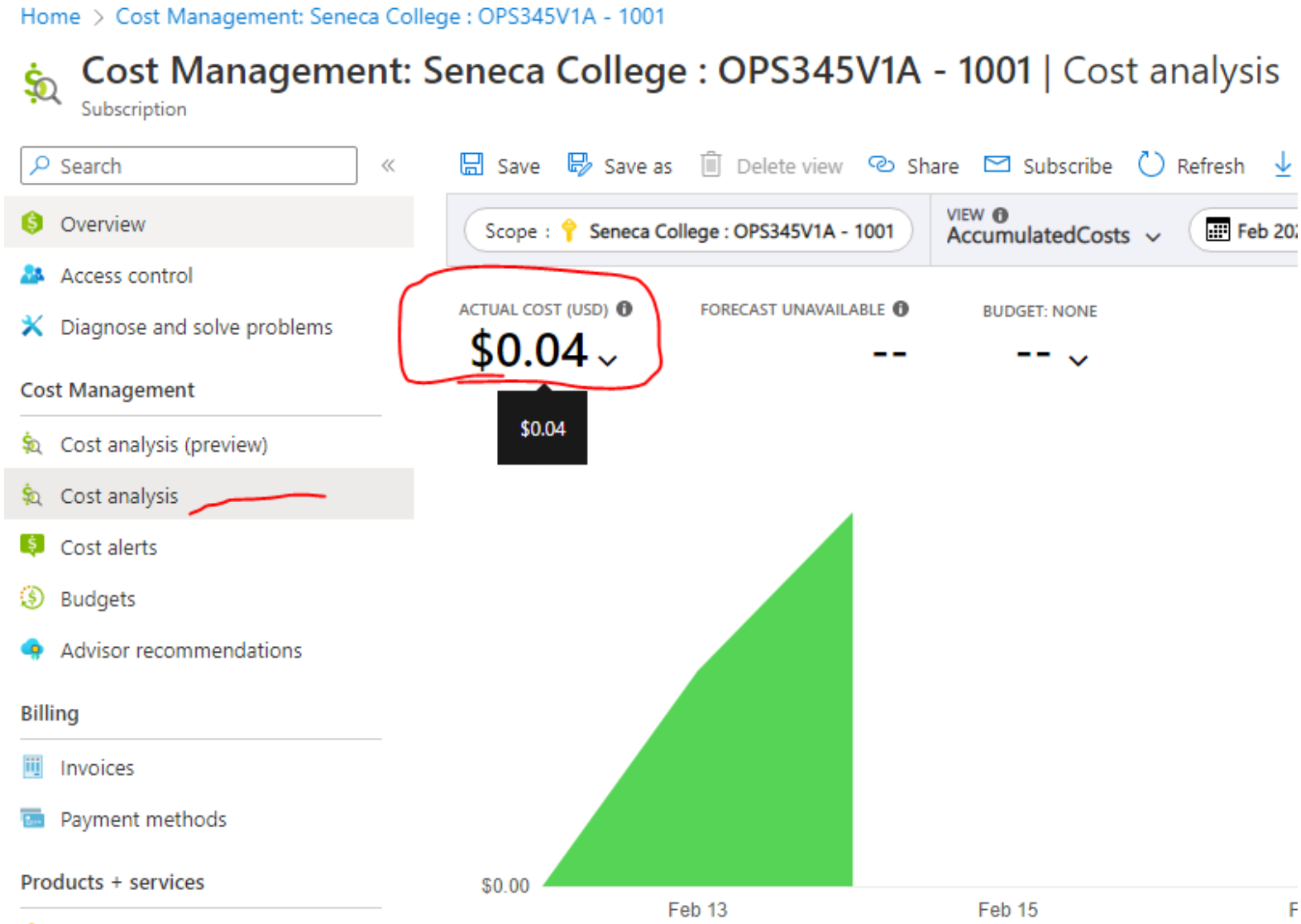




2. Login to https://portal.azure.com with assigned username and password.
3. Follow the onscreen instruction to setup your Microsoft Authenticator.



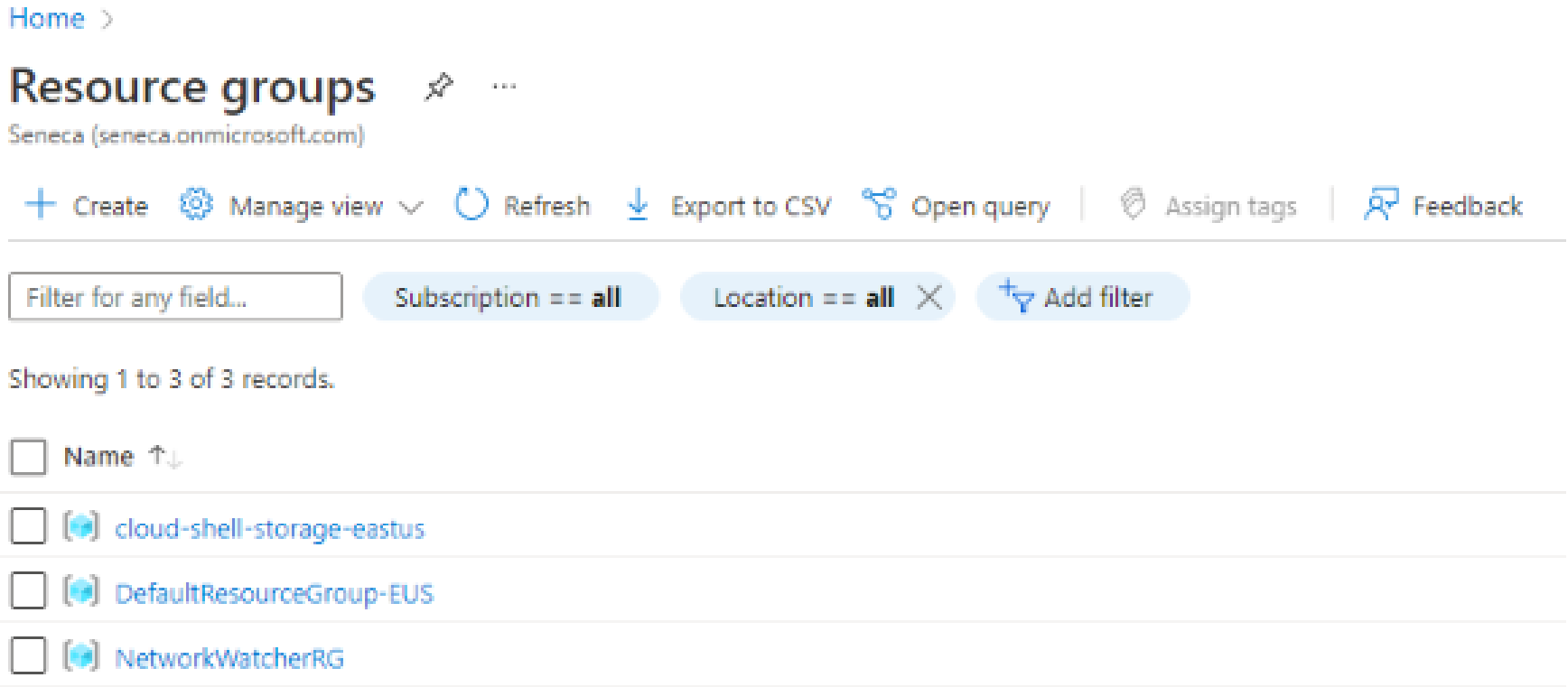
4. After sign-in to Azure portal. Search “Cost Management” and then click the “Cost Analysis” tab. Make sure your account is not being used or minimal cost occurred. (Each student has US$40 quota per course per semester)



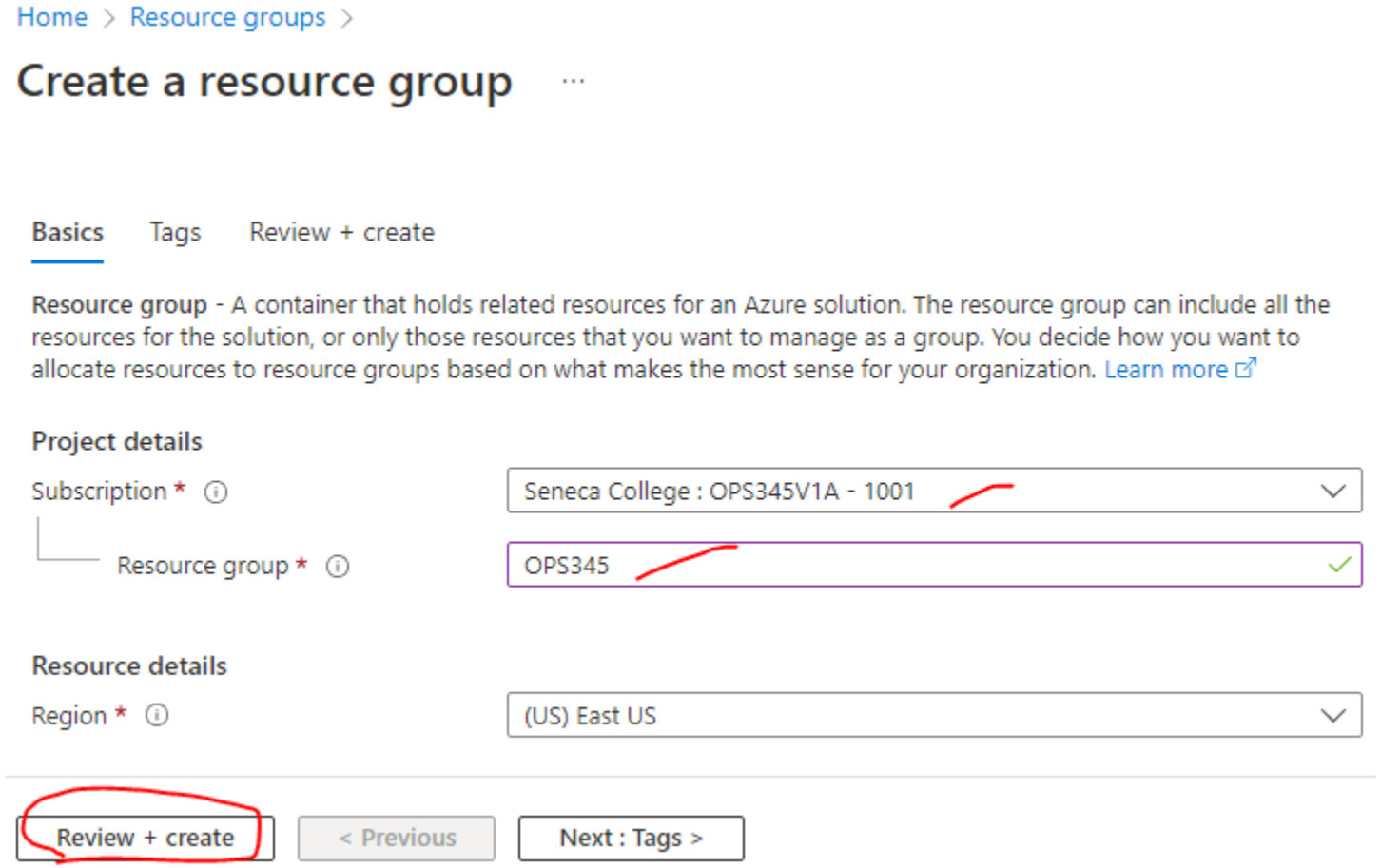
5. Please let me know if your have any issue with the "Actual Cost". It is your own responsibility to monitor your credit balance and make sure to remove/shutdown/deallocate resources to minimize the cost. Once you used up the US$40 quota, your account will be locked.

Create your first Virtual Machine

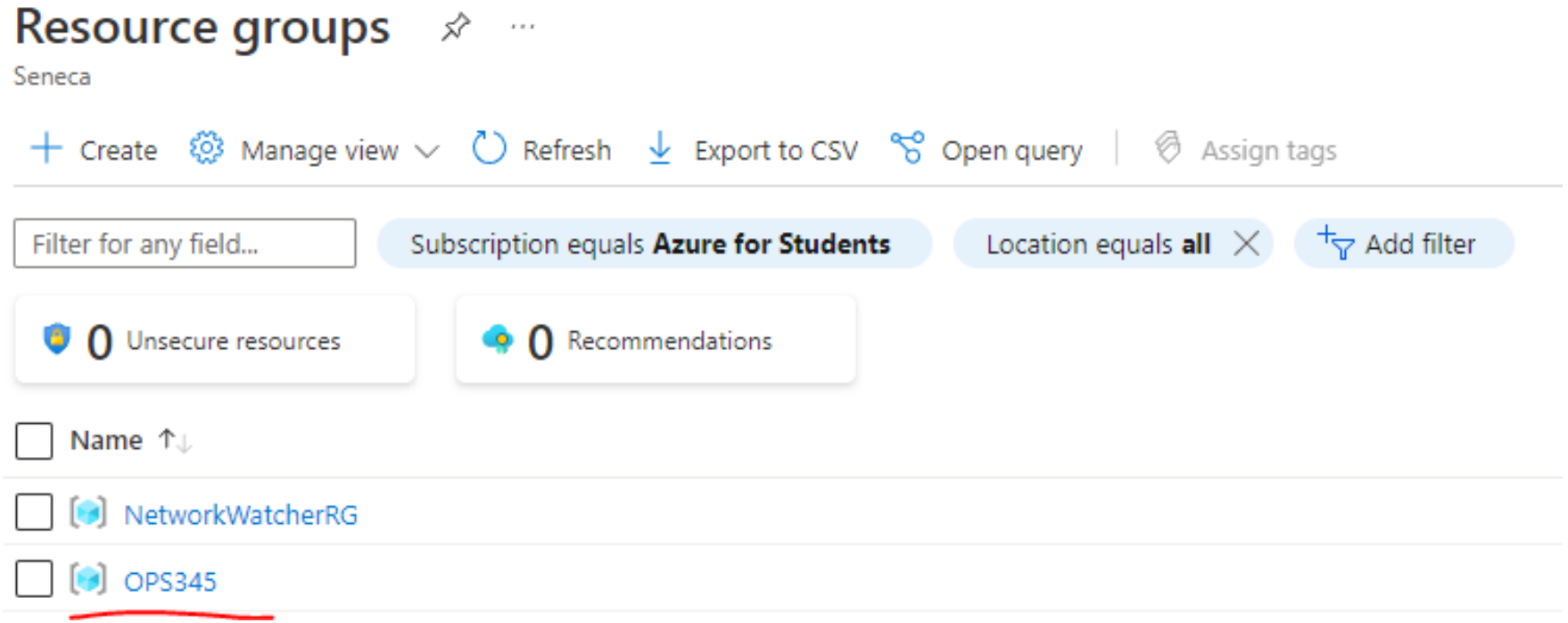
1. Navigate to “Resource Groups”. You may see few resource groups created already. Those are the default Resource Groups created automatically. You can ignore them for now.



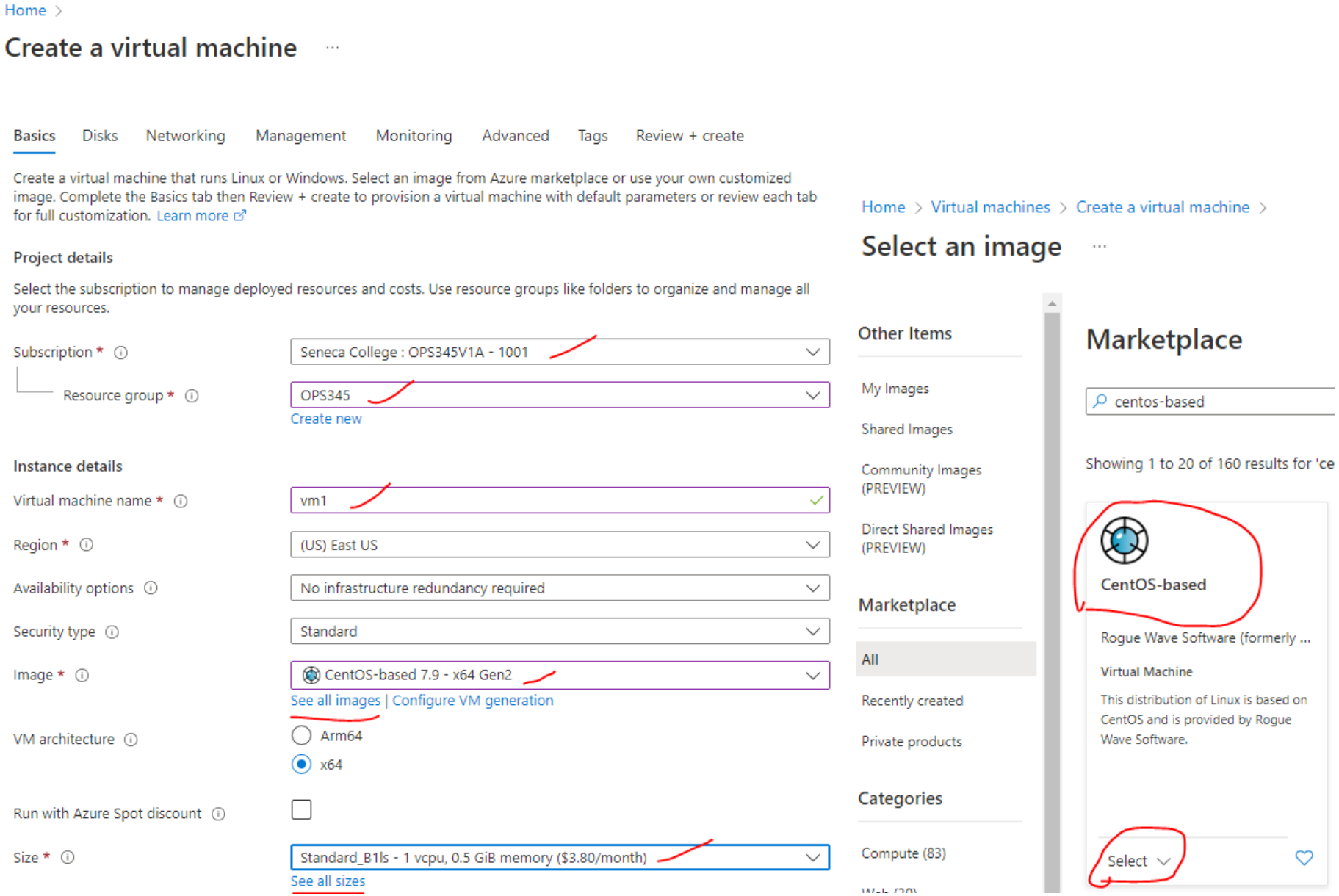
2. Create a new Resource Groups as “OPS345”. Your subscription may show a little different. Review and Create the Resource Group.



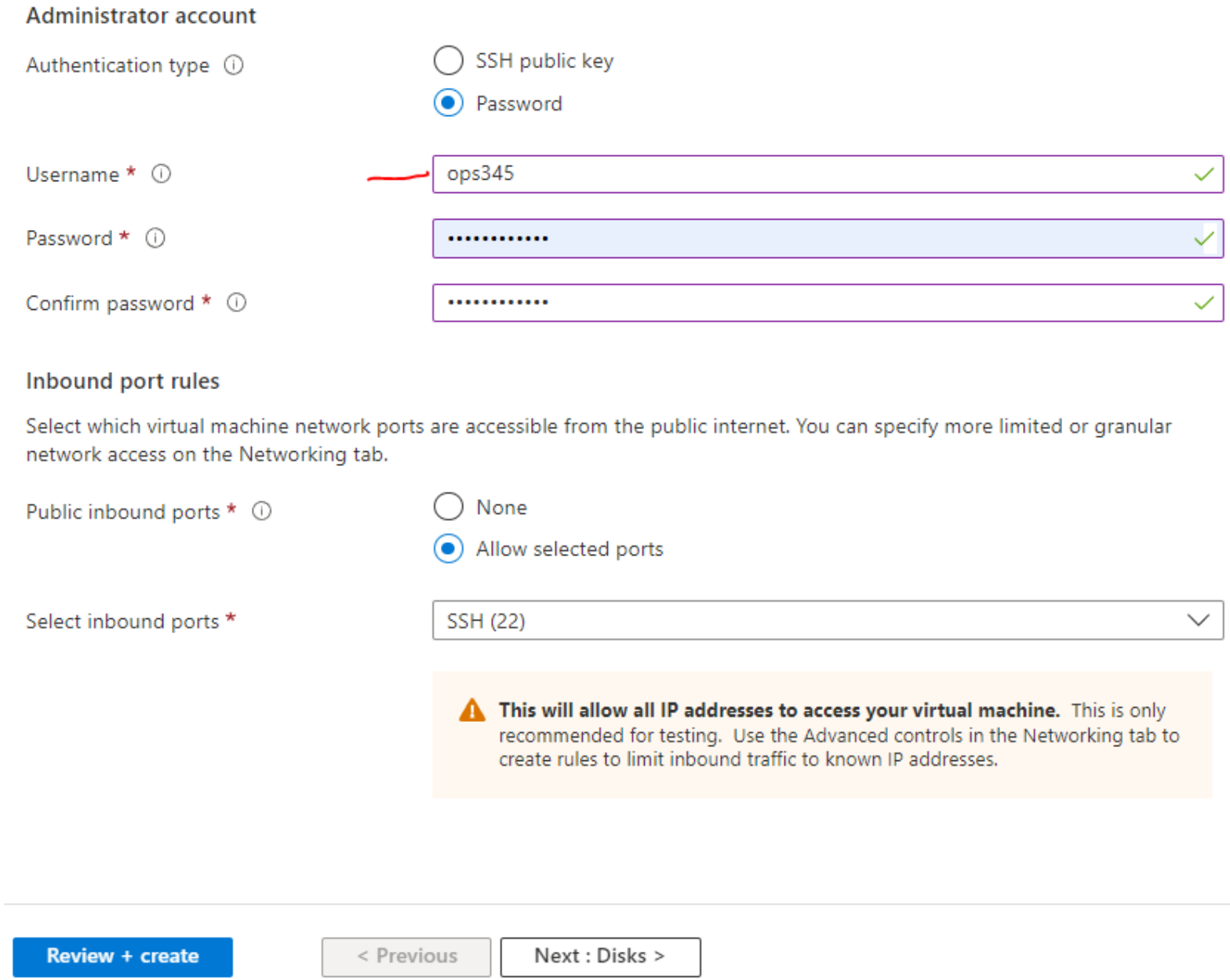
3. Confirm the Resource Group “OPS345” created.



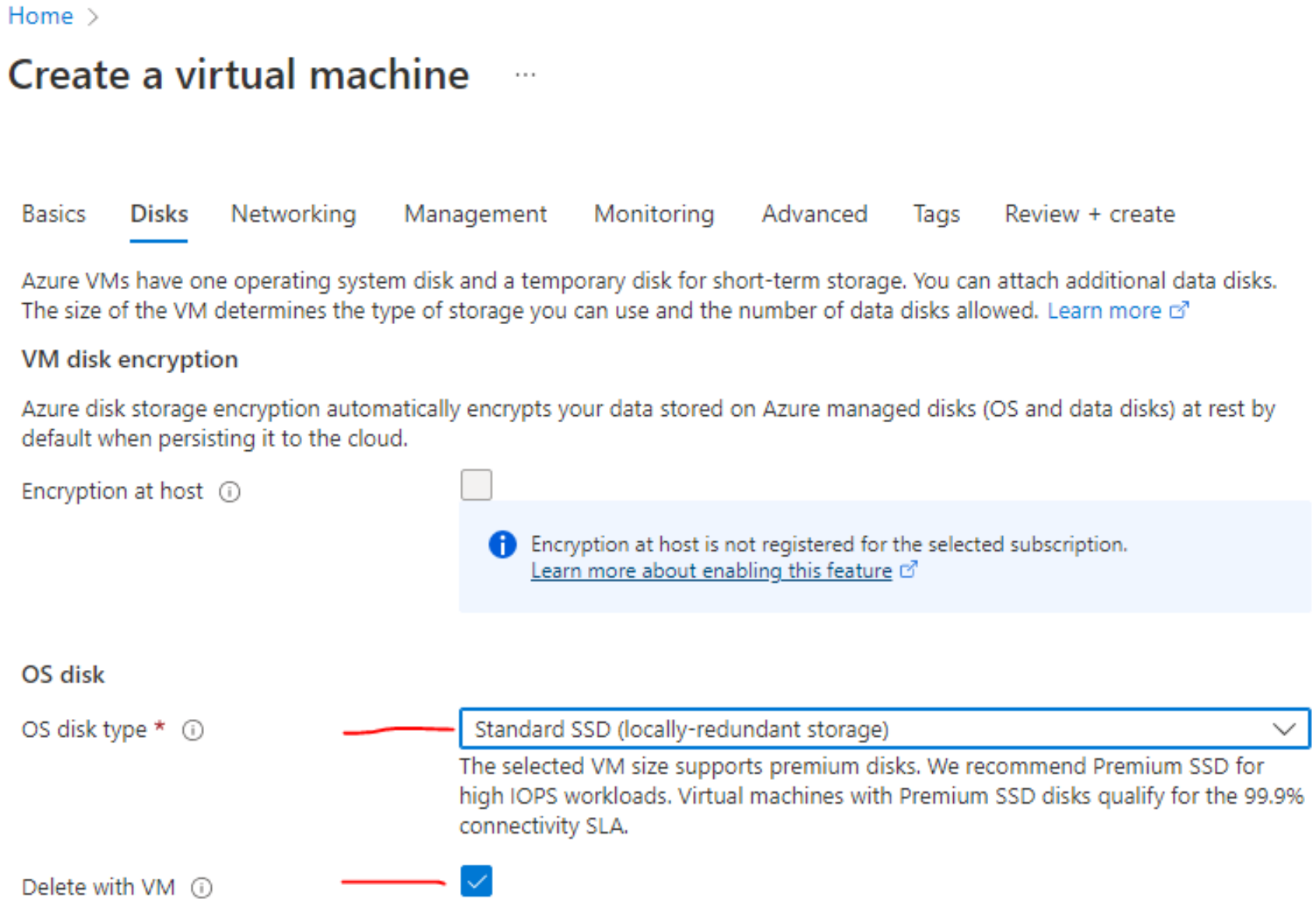
4. Navigate to “Virtual Machines” and Create a VM with CentOS. Please make sure you choose the B1s size, which cost about $3.80/month, otherwise your quota will run out soon.
   Check “See all images” and “See all sizes” if you don’t see the option on the list.



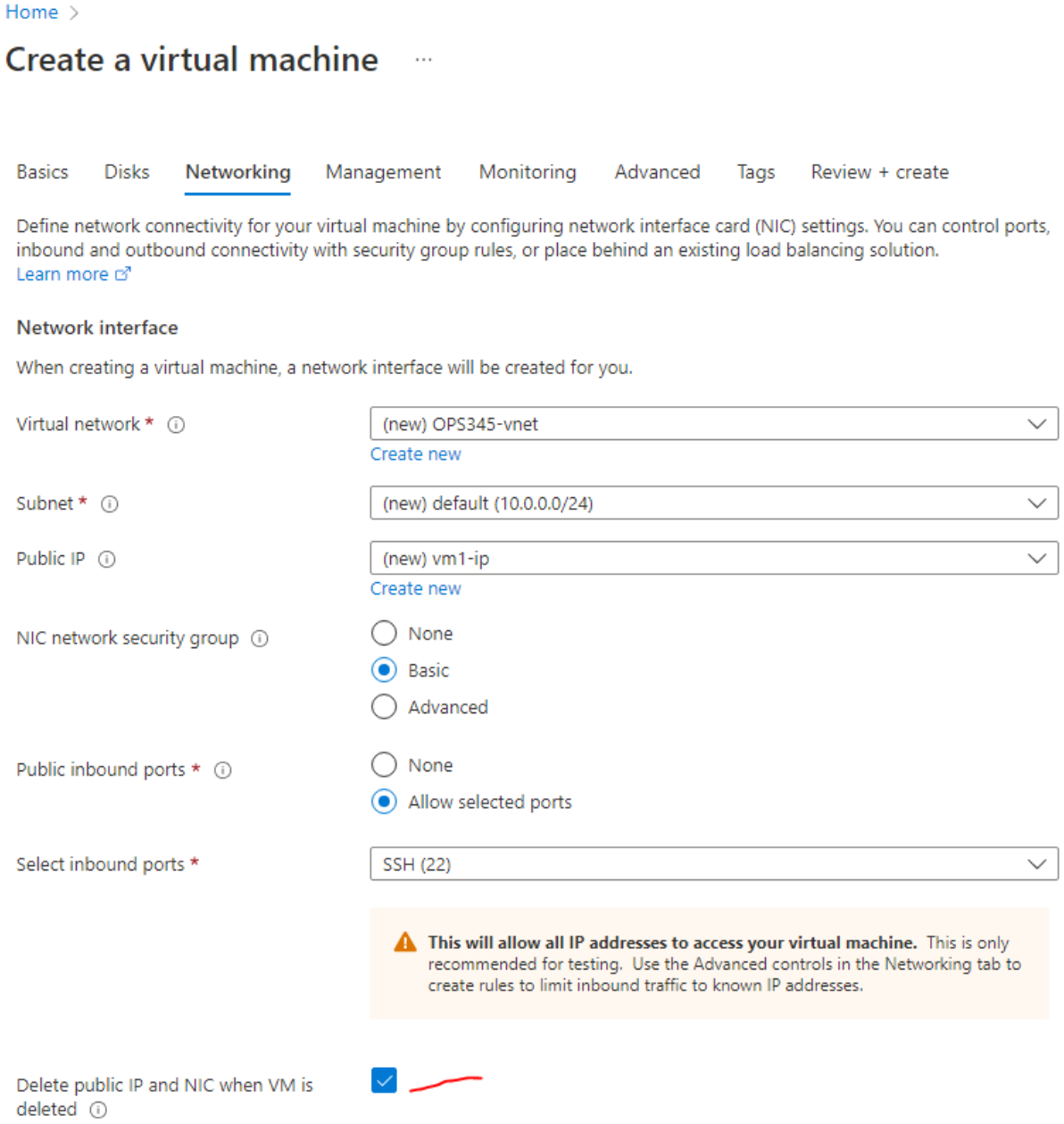
5. Under Administrator account, create a new user named as “ops345” with password of your own choice. (I will use “OPS345@Seneca” as the password throughout the labs.) Make sure other options are set as attached screenshot.



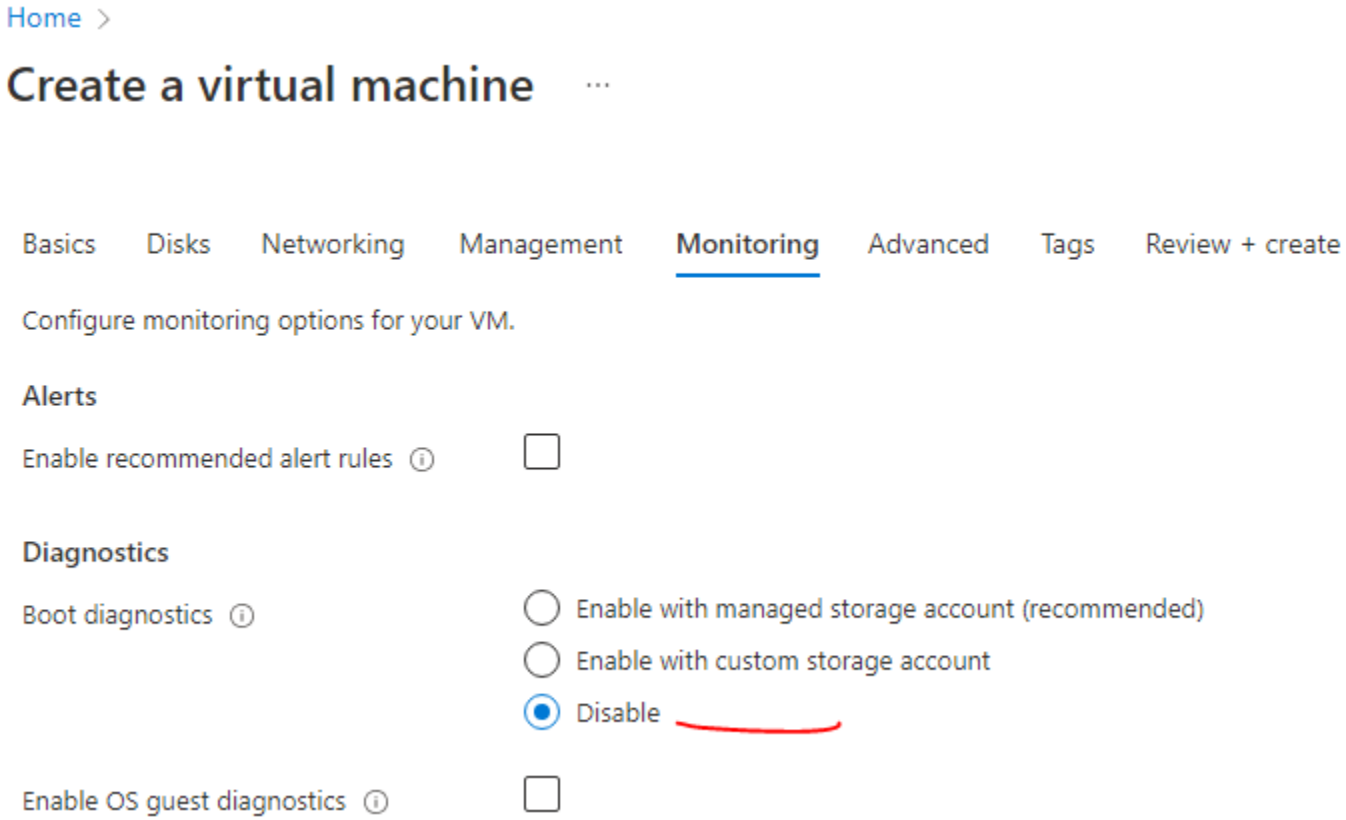
6. Proceed to the “Disks” tab. Make sure you select “**Standard HDD (locally-redundant storage)**”. Additional charge will be incurred if you choose other options and you may not have enough credit to finish the course.
   Make sure “**Delete with VM**” is checked.
   To understand the cost of Disks. https://azure.microsoft.com/en-ca/pricing/details/managed-disks/



7. Proceed to the “Networking” tab. Make sure “Delete Public IP and NIC when VM is deleted” is checked.
   To understand the cost of Public IP: https://azure.microsoft.com/en-ca/pricing/details/ip-addresses/

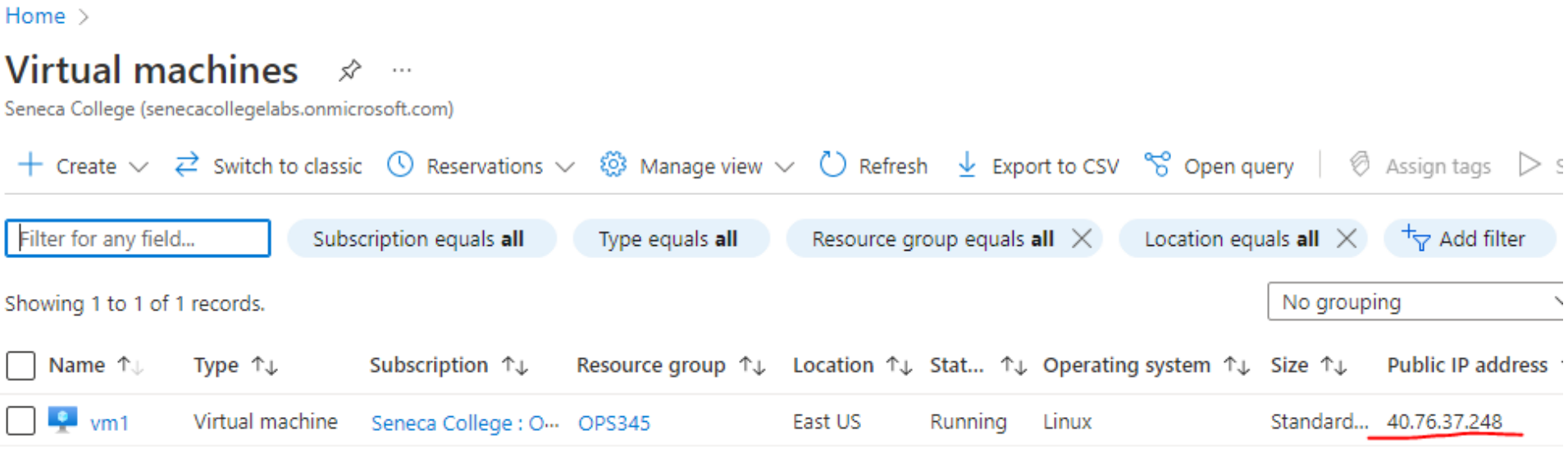


8. Proceed to the “Monitoring” tab. (Optional)
   Check the “Boot diagnostics” with “Disable” option. This will reduce the VM’s boot up time.



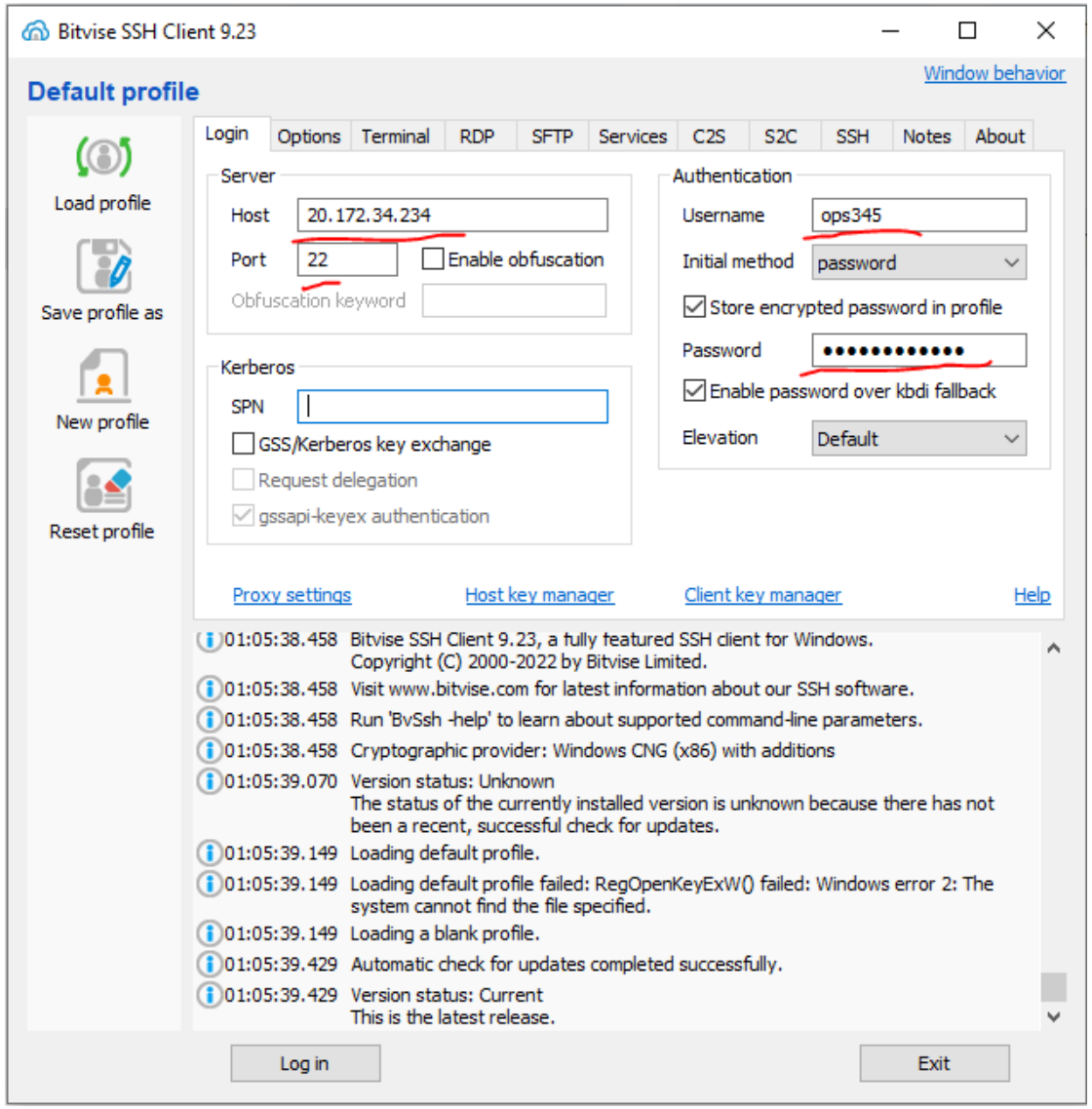
9. Keep all the other settings as default, Review and Create the VM.

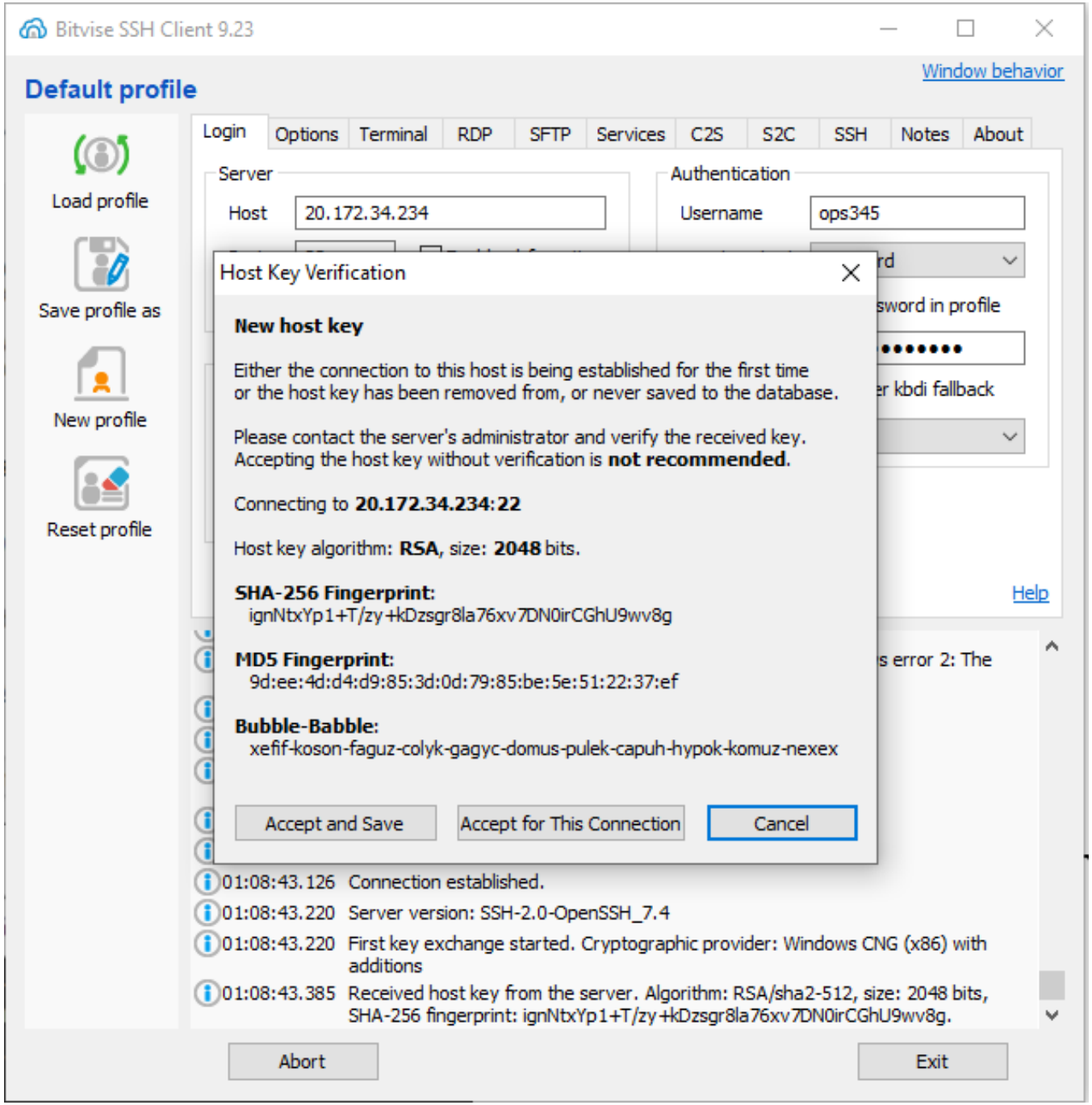
10. Find out the public IP address of the newly created VM and write it down.



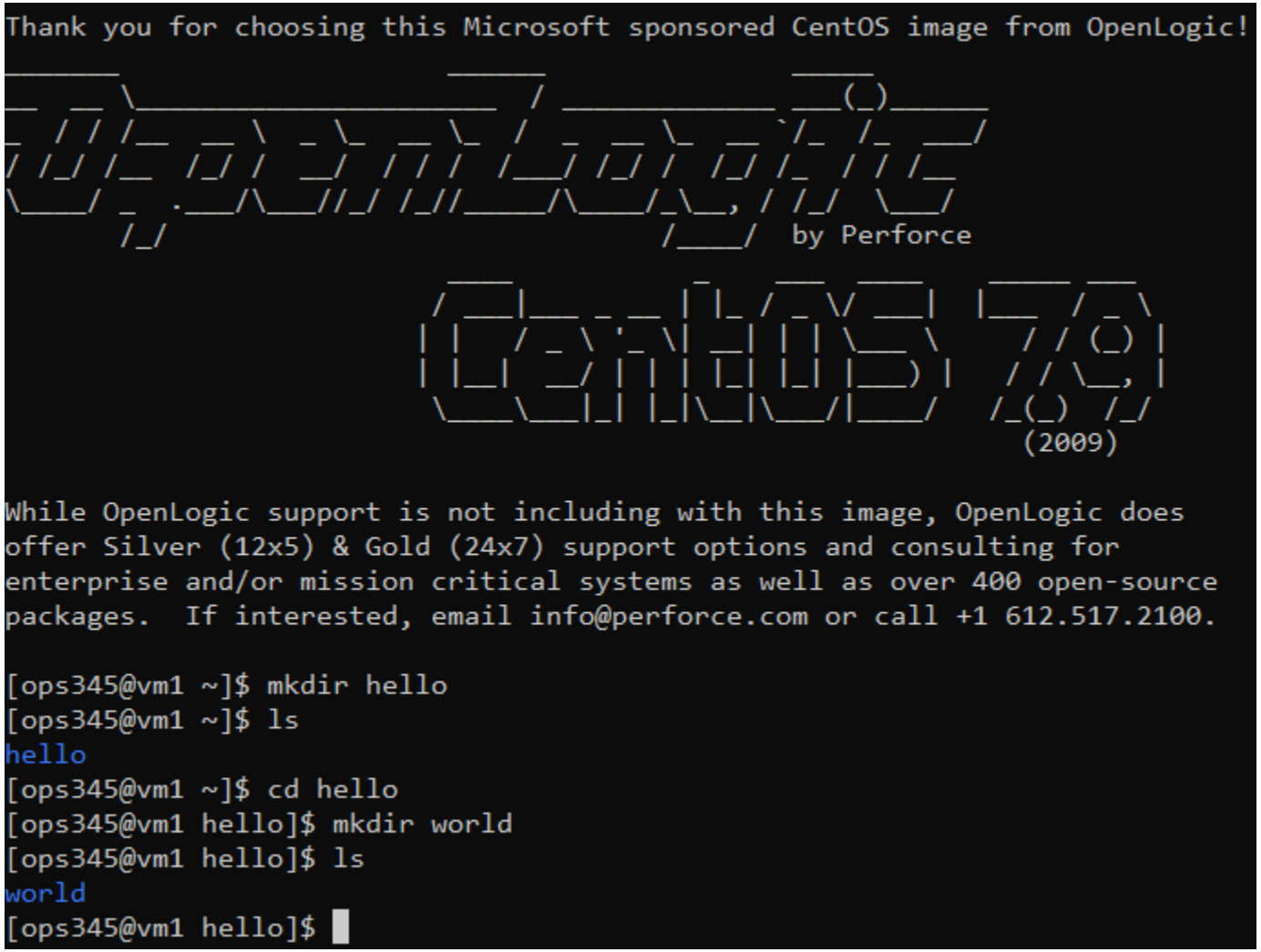
Install Bitvise SSH client (or any other SSH client of your choice) to your own computer

1. You can skip this part if you already have an SSH client installed. (Any SSH client would work.)
2. Download and install Bitvise from the official site. https://www.bitvise.com/download-area
3. SSH to the VM with Bitvise.

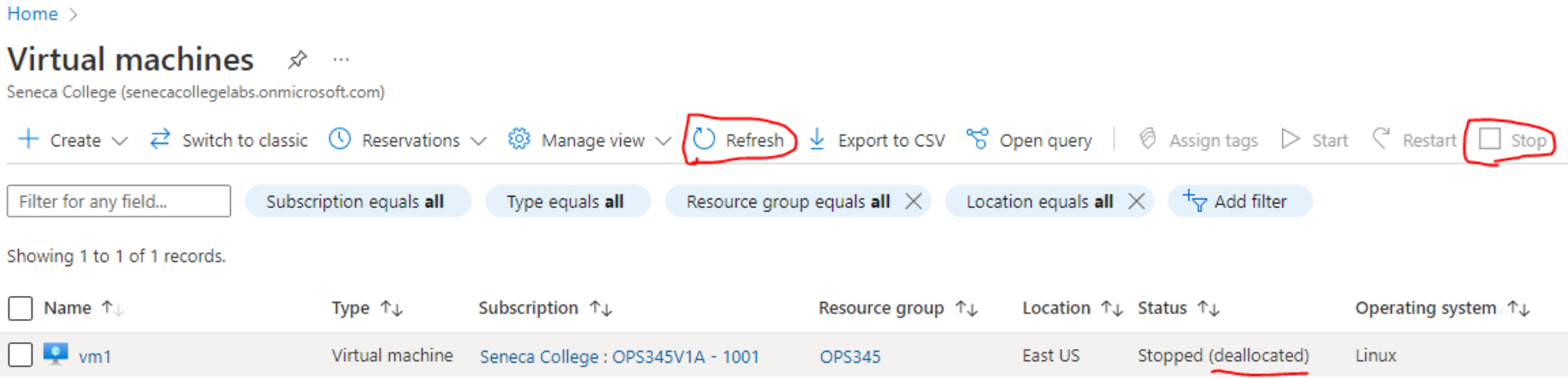



Bitvise SSH Client 9.23
Default profile
Window behavior
Load profile
Save profile as
New profile
Reset profile
Login
Options
Terminal
RDP
SFTP
Services
C2S
S2C
SSH
Notes
About
Server
Host
20.172.34.234
Authentication
Username
ops345
Host Key Verification
New host key
Either the connection to this host is being established for the first time
or the host key has been removed from, or never saved to the database.
Please contact the server's administrator and verify the received key.
Accepting the host key without verification is not recommended.
Connecting to 20.172.34.234:22
Host key algorithm: RSA, size: 2048 bits.
SHA-256 Fingerprint:
ignNtxYp1+T/zy+kDzsgr8la76xv7DN0irCGhU9wv8g
MD5 Fingerprint:
9d:ee:4d:d4:d9:85:3d:0d:79:85:be:5e:51:22:37:ef
Bubble-Babble:
xefif-koson-faguz-colyk-gagyc-domus-pulek-capuh-hypok-komuz-nexex
Accept and Save
Accept for This Connection
Cancel
Help
01:08:43.126 Connection established.
01:08:43.220 Server version: SSH-2.0-OpenSSH_7.4
01:08:43.220 First key exchange started. Cryptographic provider: Windows CNG (x86) with additions
01:08:43.385 Received host key from the server. Algorithm: RSA/sha2-512, size: 2048 bits, SHA-256 fingerprint: ignNtxYp1+T/zy+kDzsgr8la76xv7DN0irCGhU9wv8g.
Abort
Exit

4. Open “New terminal console” on the left-hand side. And try to run few commands such as ls, cd, mkdir, clear…etc.



5. Please make sure you "**Stop**" the VM "vm1" from Azure Portal to conserve your credit.
   "**Refresh**" to make sure it is **deallocated**.
   Simply shutdown (stop) the VM without deallocated will still incur the charges.
   There are charges on a lot of components of a VM separately. (CPU, RAM, Disks, Public IP…etc.)
   We will try our best to conserve the cost.



Please stop the screen capturing software and save the captured file.

Upload the captured file to Blackboard \ My Tasks \ Prep Lab

If it is a video file, please upload to OneDrive and share the link with me.

All Seneca Users each have 1TB storage on OneDrive.