MICROSOFT AZURE

NAME: ANJU C

DEPARTMENT: B.TECH ARTIFICIAL INTELLIGENCE AND DATA

SCIENCE

GITHUB LINK: https://github.com/anjukamal/html.git

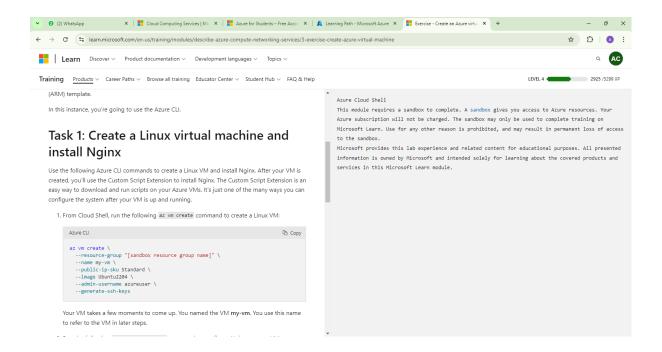
1.REQUESTING A CLOUD SHELL SUCCEEDED.

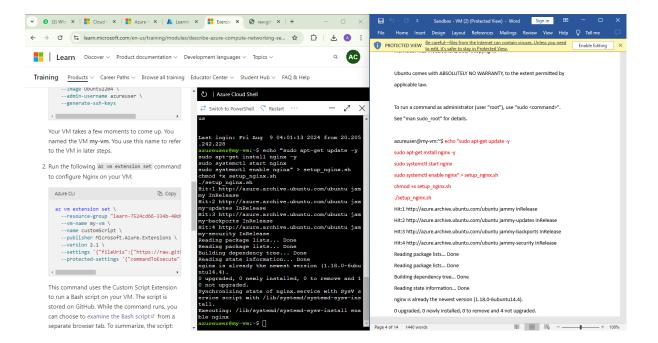
SANDBOX:

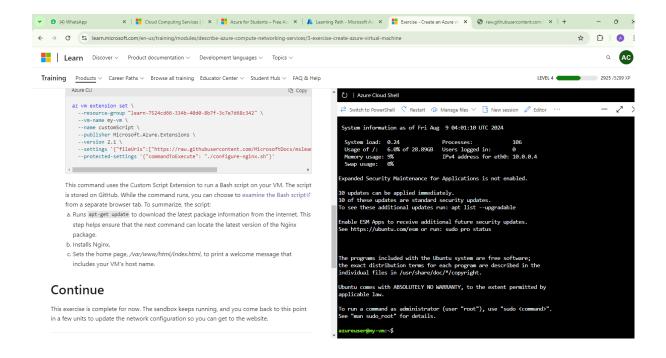
Welcome to Azure Cloud Shell

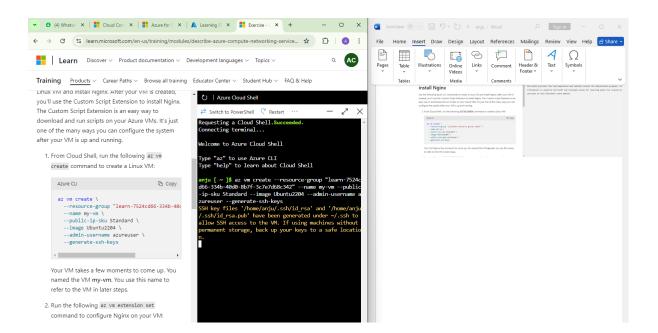
- az vm create --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --public-ip-sku Standard --image Ubuntu2204 --admin-username azureuser --generate-ssh-keys
- az vm extension set --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --vm-name my-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '{"fileUris":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure-nginx.sh"}'
- sudo apt-get update
- ssh azureuser@ 13.91.107.53

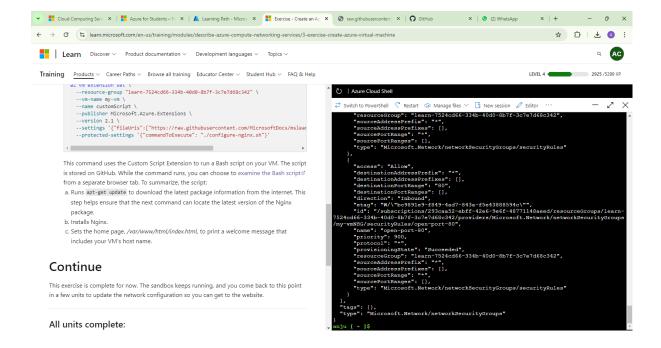
- echo "sudo apt-get update -y
- sudo apt-get install nginx -y
- sudo systemctl start nginx
- sudo systemetl enable nginx" > setup_nginx.sh
- chmod +x setup_nginx.sh
- ./setup_nginx.sh
- echo "<html><body><h2>Welcome to Azure! My name is \$(hostname).</h2></body></html>" | sudo tee -a /var/www/html/index.html
- sudo systemctl status nginx
- az vm open-port --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --port 80
- az vm list-ip-addresses --resource-group "learn-1dd151f8-37c6-44cc-a975-8f08e65c30c2" --name my-vm --output table
- ssh azureuser@ 13.91.107.53
- sudo apt-get update
- git clone https://github.com/anjukamal/html.git
- sudo cp -r html/* /var/www/html/
- sudo chown -R www-data:www-data/var/www/html
- sudo chmod -R 755 /var/www/html
- sudo systemetl restart nginx

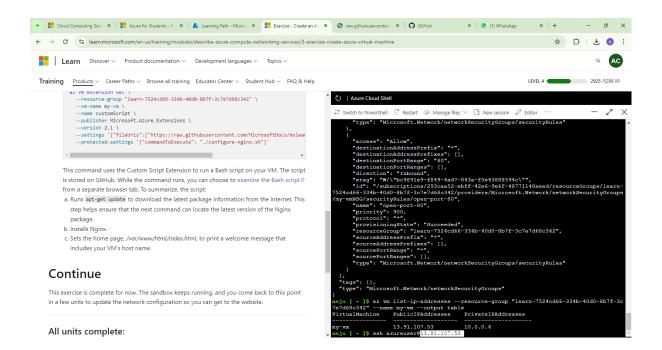








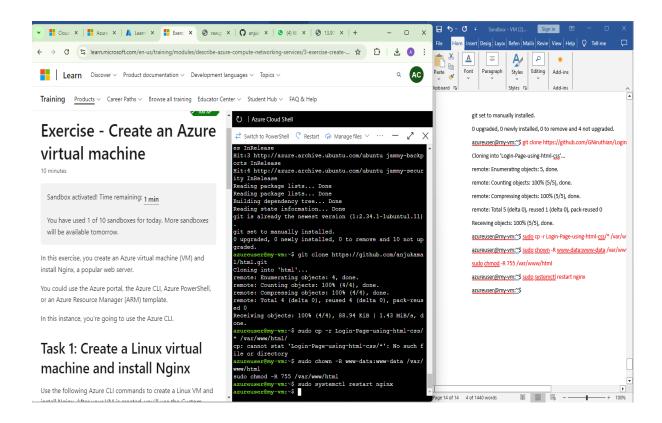


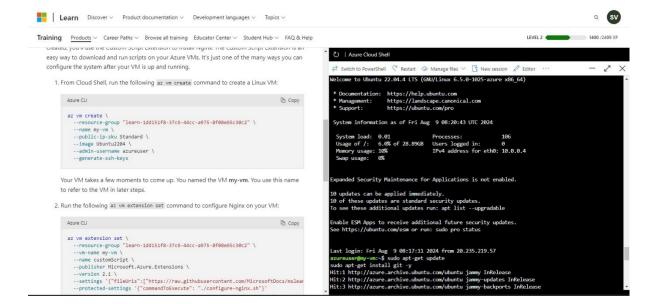


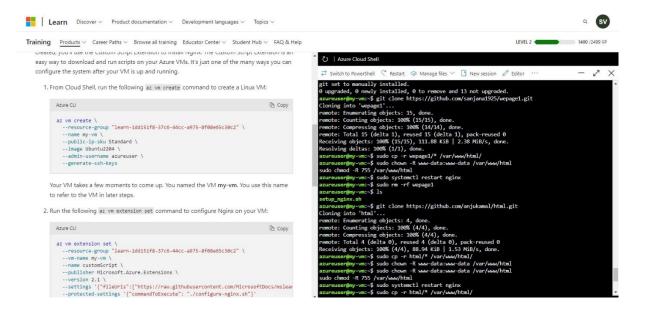


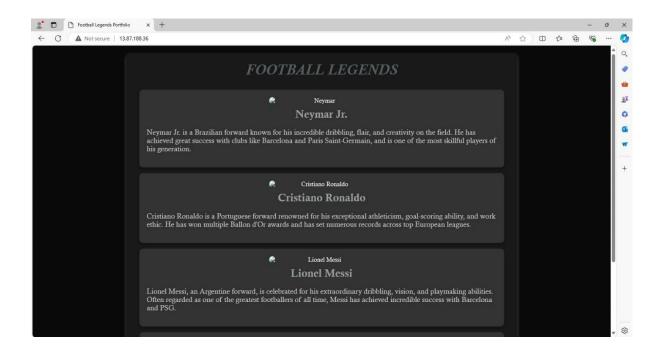
Welcome to Azure! My name is my-vm.

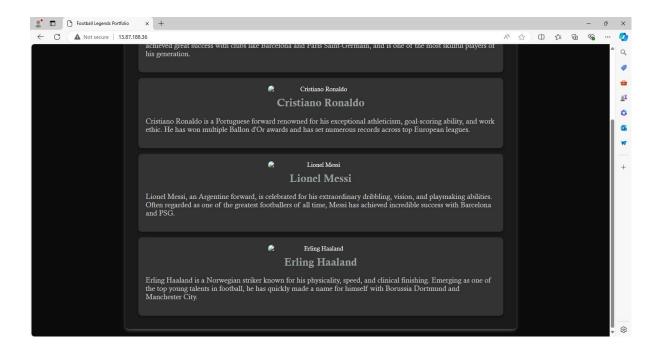
Welcome to Azure! My name is my-vm.











2.DESCRIBE AZURE STORAGE SERVICES

WORK WITH BLOB STORAGE:

In this section, you'll create a Blob container and upload a picture.

- 1. Under Data storage, select Containers.
- 2. Select + Container and complete the information.
- 3. Select Create.

NOTE:

Step 4 will need an image. If you want to upload an image you already have on your computer, continue to Step 4. Otherwise, open a new browser window and search Bing for an image of a flower. Save the image to your computer.

- 4. Back in the Azure portal, select the container you created, then select Upload.
- 5. Browse for the image file you want to upload. Select it and then select upload.

NOTE:

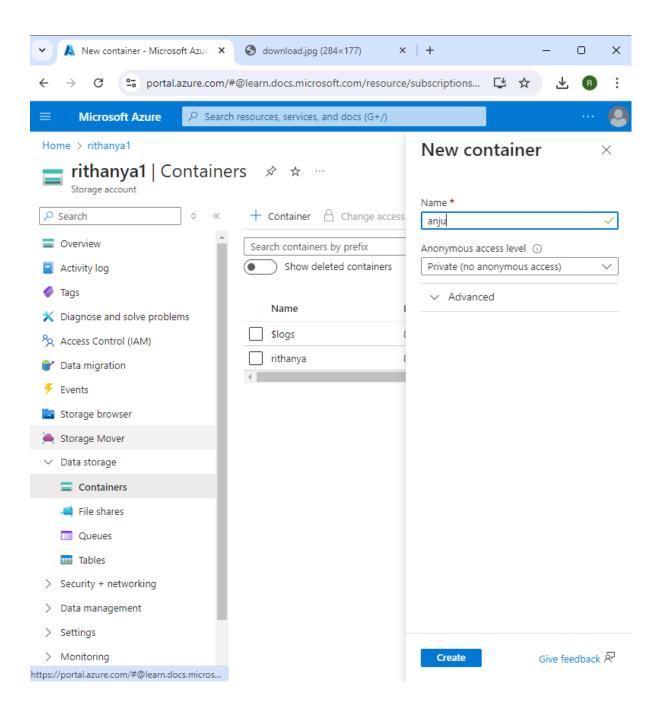
You can upload as many blobs as you like in this way. New blobs will be listed within the container.

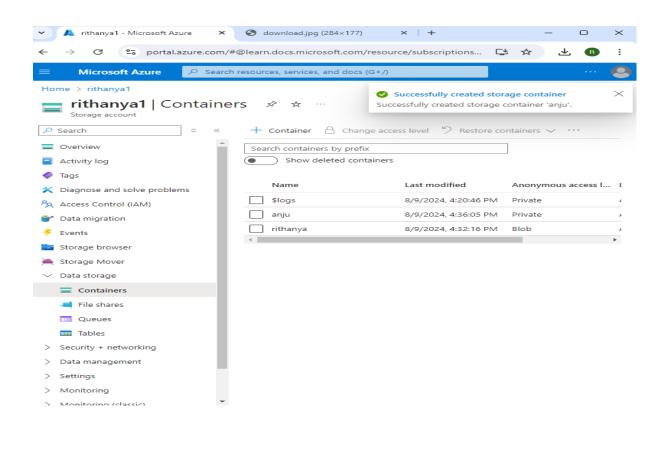
- 6. Select the Blob (file) you just uploaded. You should be on the properties tab.
- 7. Copy the URL from the URL field and paste it into a new tab.

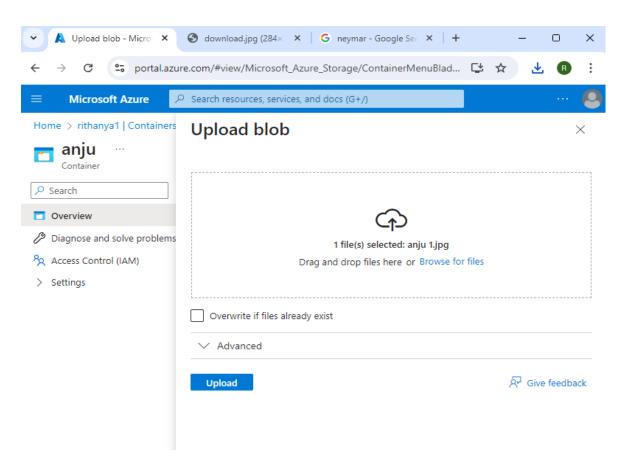
CHANGE THE ACCESS LEVEL OF THE BOB:

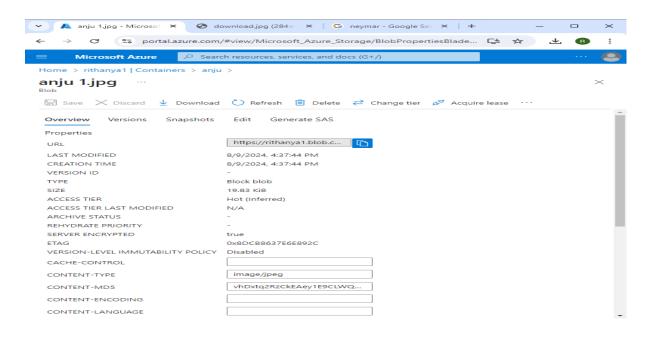
1. Go back to the Azure portal.

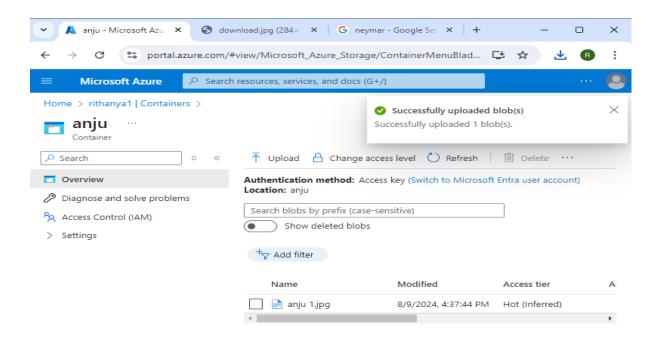
- 2. Select Change access level.
- 3. Set the Anonymous access level to Blob (anonymous read access for blobs only).
- 4. Select OK.
- 5. Refresh the tab where you attempted to access the file earlier.

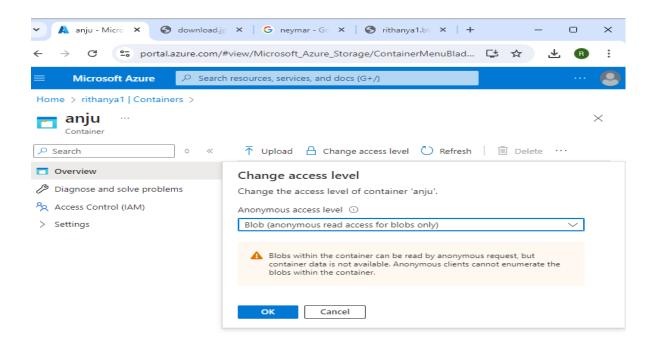


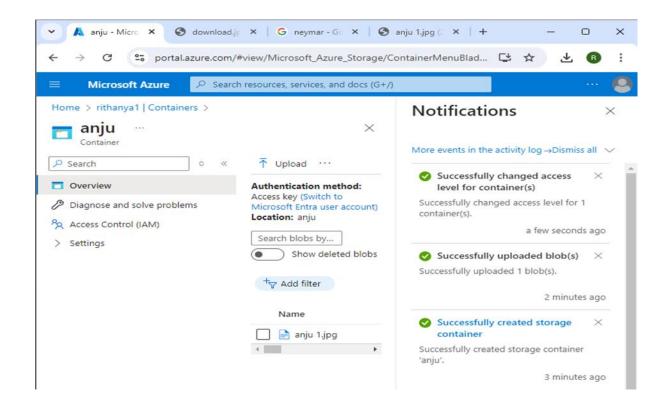


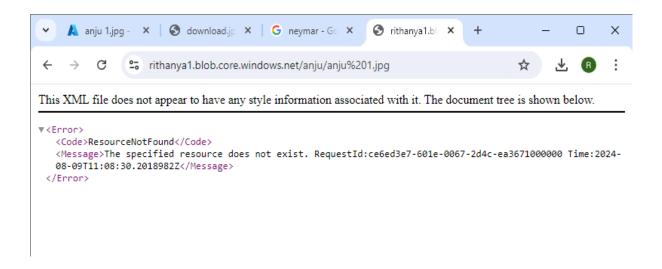


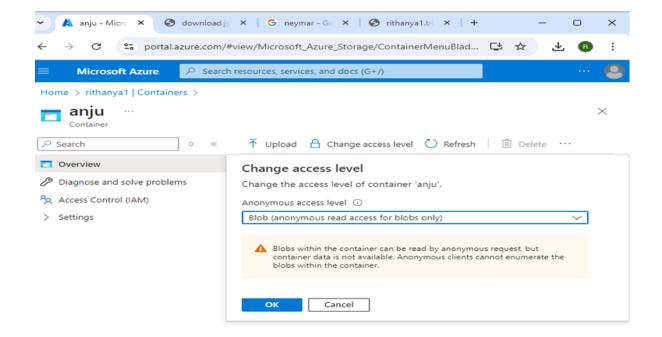


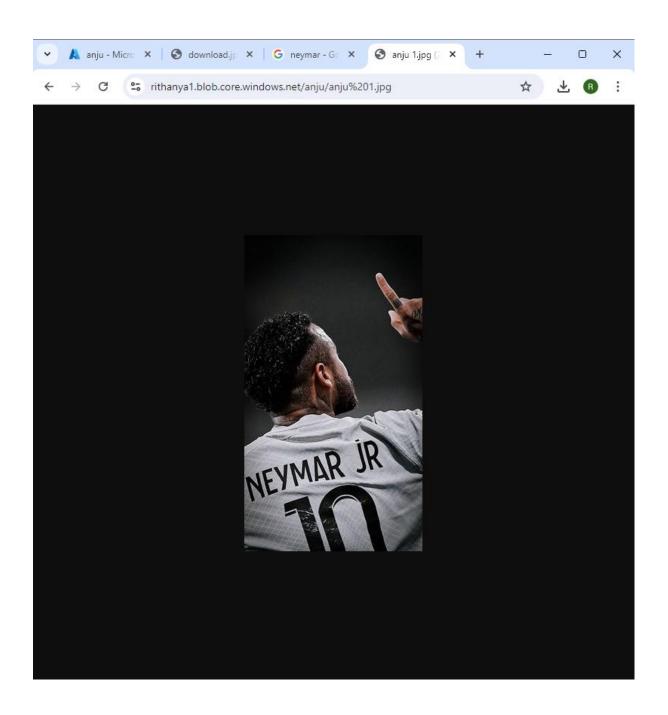










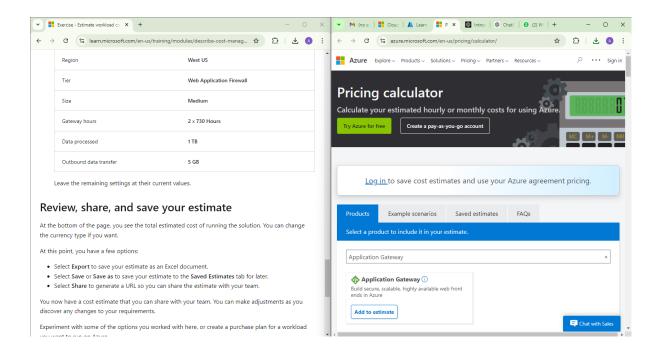


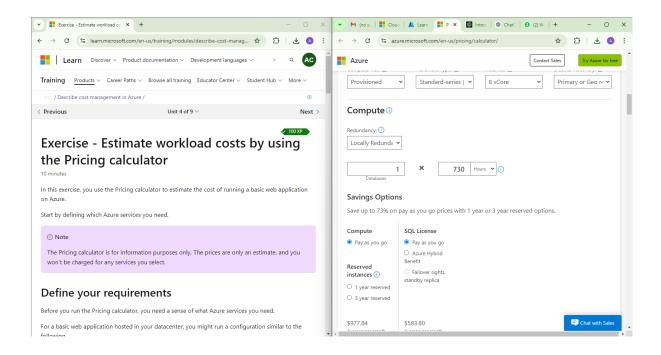
3.ESTIMATE WORKLOAD COSTS BY USING THE PRICING CALCULATOR

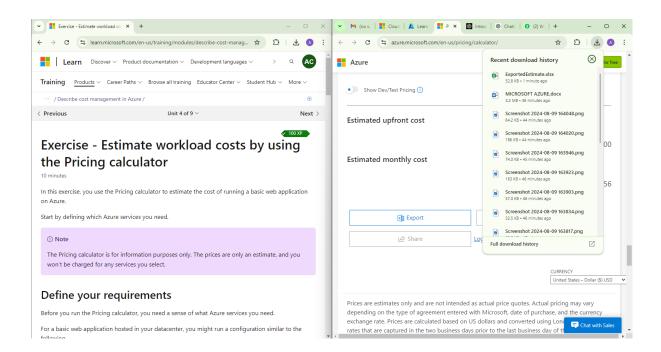
EXPLORE THE PRICING CALCULATOR:

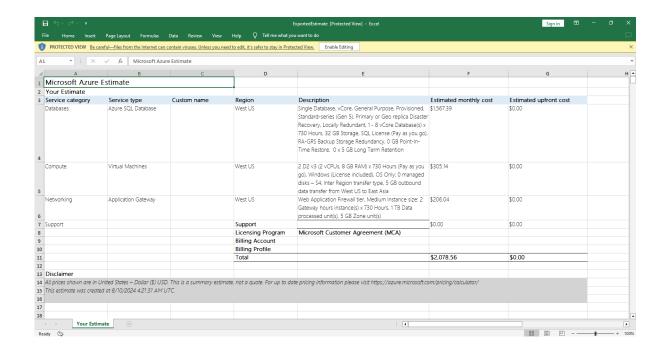
- 1. Go to the Pricing calculator.
- 2. Notice the following tabs:
- Products This is where you choose the Azure services that you want to include in your estimate. You'll likely spend most of your time here.
- Example scenarios Here you'll find several reference architectures, or common cloud-based solutions that you can use as a starting point.
- Saved estimates Here you'll find your previously saved estimates.
- 3. Estimate your solution
- Here you add each Azure service that you need to the calculator. Then you configure each service to fit your needs.
- Tip
- Make sure you have a clean calculator with nothing listed in the estimate. You can reset the estimate by selecting the trash can icon next to each item.
- Add services to the estimate
- 1. On the Products tab, select the service from each of these categories:
- 2. Scroll to the bottom of the page. Each service is listed with its default configuration.
- Configure services to match your requirements:
- 1. Under Virtual Machines, set values.
- 2. Under Azure SQL Database, set values.
- 3. Under Application Gateway, set values.
- Review, share, and save your estimate

- At the bottom of the page, you see the total estimated cost of running the solution. You can change the currency type if you want.
- At this point, you have a few options:
- Select Export to save your estimate as an Excel document.
- Select Save or Save as to save your estimate to the Saved Estimates tab for later.
- Select Share to generate a URL so you can share the estimate with your team.









4. COMPARE WORKLOAD COSTS USING THE TCO CALCULATOR

DEFINE YOUR WORKLOADS:

Enter the specifications of your on-premises infrastructure into the TCO Calculator.

- 1. Go to the TCO Calculator.
- 2. Under Define your workloads, select Add server workload to create a row for your bank of Windows Server VMs.
- 3. Under Servers, set the value for each of these settings.
- 4. Select Add server workload to create a second row for your bank of Linux VMs. Then specify these settings.
- 5. Under Storage, select Add storage. Then specify these settings.
- 6. Under Networking, set Outbound bandwidth to 15 TB.
- 7. Select Next.
- In practice, you would adjust any cost assumptions and make any adjustments to match your current on-premises environment.
- At the top of the page, select your currency. This example uses US Dollar (\$).
- Select Next.
- View the report
- Take a moment to review the generated report.
- Remember, you've been tasked to investigate cost savings for your European data center over the next three years.

TO MAKE THESE ADJUSTMENTS:

- 1. Set Timeframe to 3 Years.
- 2. Set Region to North Europe.

Scroll to the summary at the bottom. You see a comparison of running your workloads in the data center versus on Azure.

