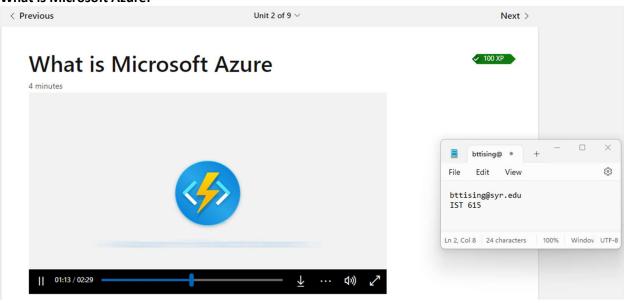
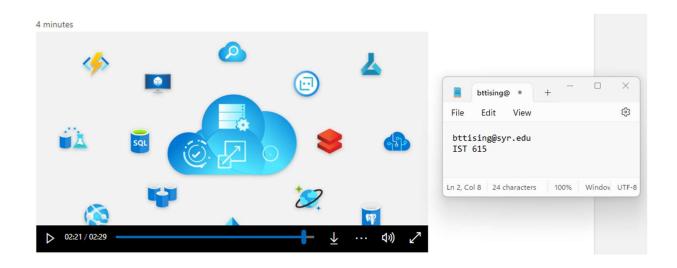
Benjamin Tisinger

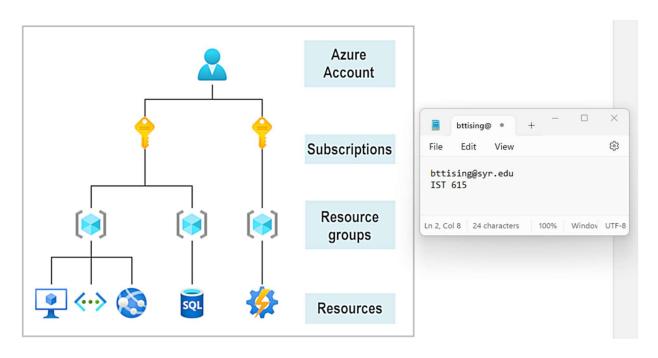
IST 615 – Lab #4 Azure Part 2 2/24/2024

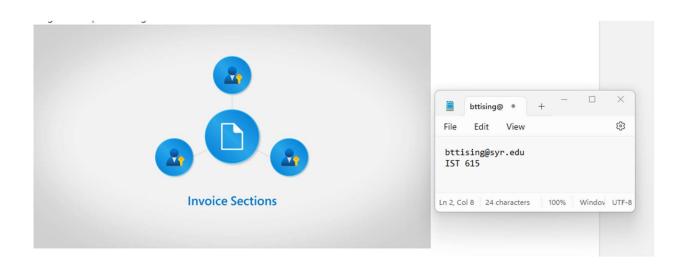
What is Microsoft Azure:



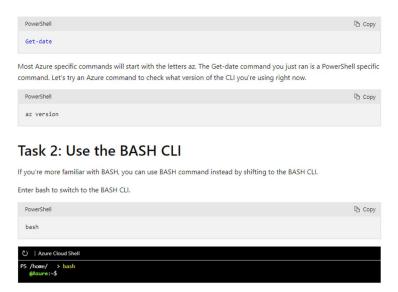


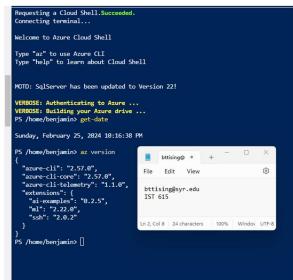
Getting Started with Azure Accounts:



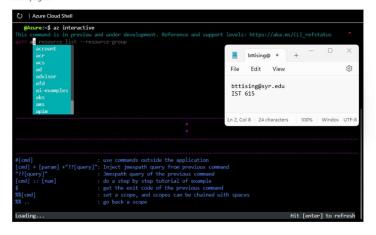


Exercise – Explore the Learn Sandbox:





auto-completion snould start to work. If auto-completion isn't working, erase what you've entered, wait a bit longer, and try again.



```
P5 /home/benjamin> az interactive
This command is in preview and under development. Reference and support levels: https://aka.ms/CLI_refstatus
Installing the Interactive extension...
Default enabled including preview versions for extension installation now. Disabled in May 2024. Use '--allow-preview
true' to enable it specifically if needed. Use '--allow-preview false' to install stable version only.
The installed extension 'interactive' is in preview.

Do you agree to sending telemetry (yes/no)? Default answer is yes: yes

A new Recommender is added which can make the completion ability more intelligent and provide the scenario completi!

If you want to disable this feature, you can use 'az config set interactive.enable_recommender=False' to disable it

A command preload mechanism was added to prevent lagging and command run errors.
You can skip preloading in a single pass by CTRL+C or turn it off by setting 'az config set interactive.enable_prel
ding=False'

Loading command table... Expected time around 1 minute.

applications are supported to information.

acr : Manage Azure subscription information.

acr : Manage Azure subscription information.

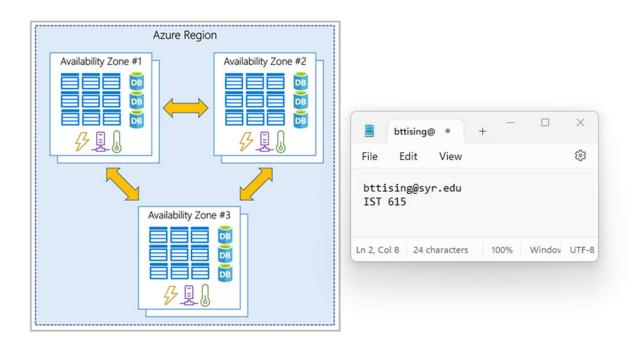
acr : Manage Azure false with Azure Container Registries.

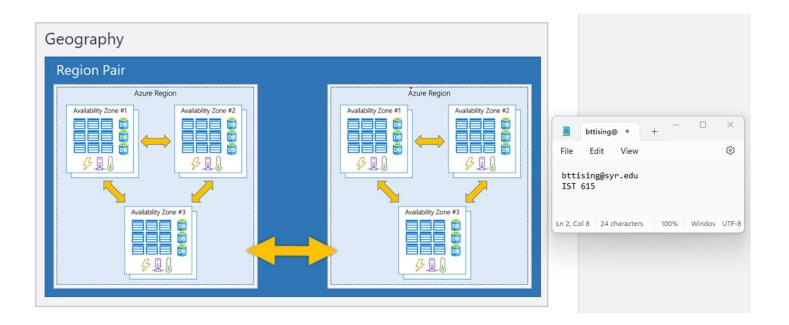
ad : Manage Azure Atvice Directory Graph entities needed for Role Based

Access Control.

advisor.
```

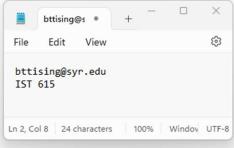
Describe Azure Physical Infrastructure:

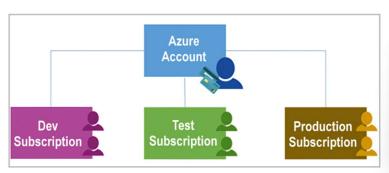


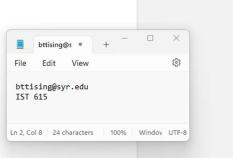


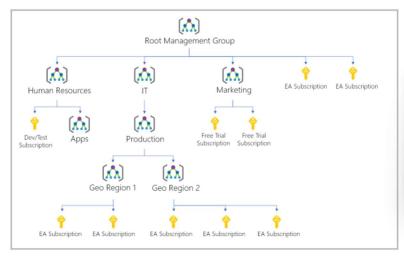
Describe Azure Management Infrastructure:

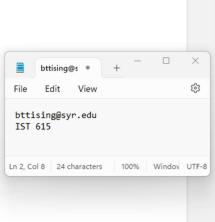




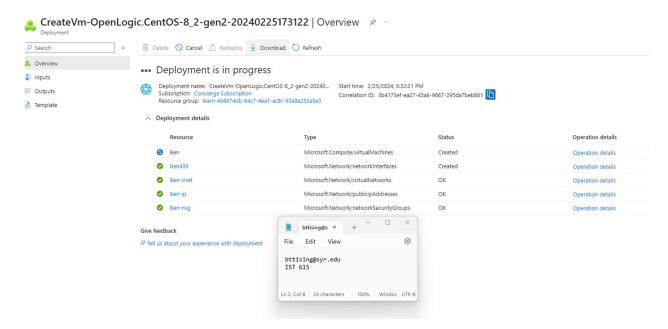








Create an Azure Resource:



Describe Azure Virtual Machine:

1. From Cloud Shell, run the following az vm create command to create a Linux VM:

Azure CU

az vm create \
--resource-group "learn-53911825-1608-4f06-917f-fd81be8d6de7" \
--name my-vm \
--public-1p-sku Standard \
--admin-username azureuser \
--generate-ssh-keys

Your VM will take a few moments to come up. You named the VM my-vm. You use this name to refer to the VM in later steps.

2. Run the following az vm extension set command to configure Nginx on your VM:

Azure CU

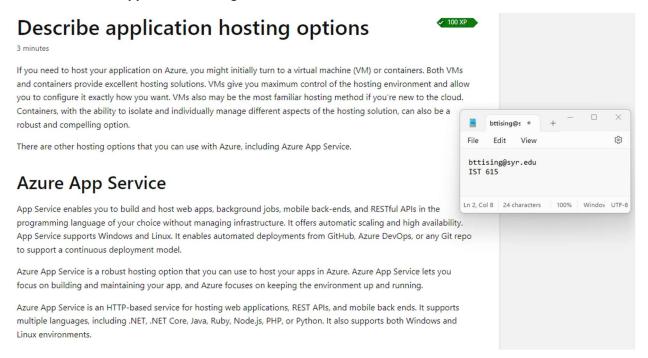
Azure CU

D Copy

az vm extension set \
--resource-group "learn-53911825-1608-4f06-917f-fd81be8d6de7" \
--vm-name my-vm \
--name customScript \
--publisher Microsoft.Azure.Extensions \
--version 2.1 \
--settings '{"fileUnis":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/m
--protected-settings '{"commandToExecute": "./configure-nginx.sh")'

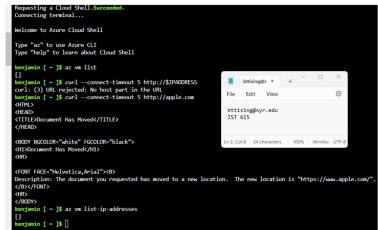


Describe Application Hosting:

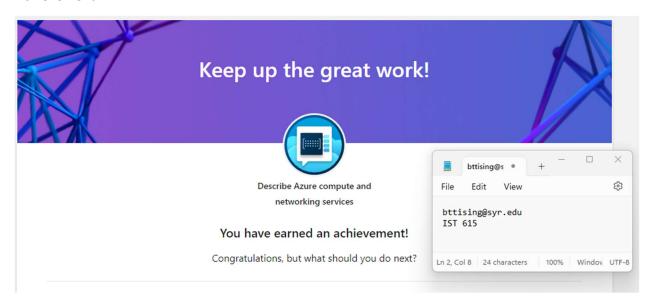


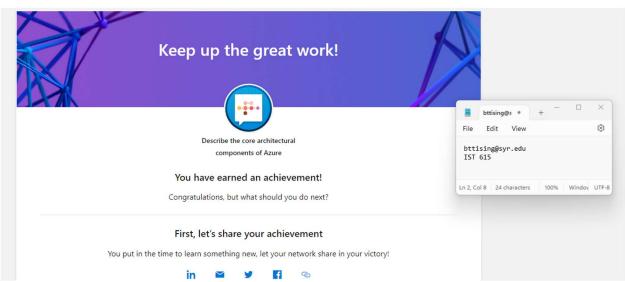
Configure Network Access:



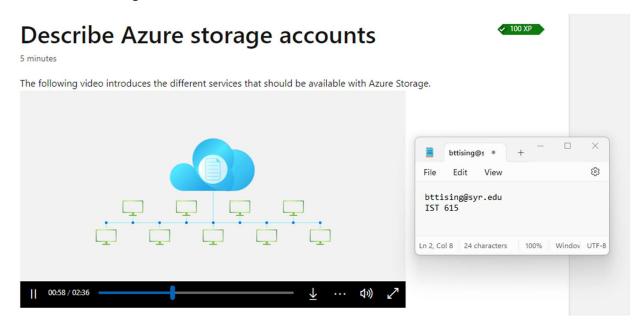


Achievement:



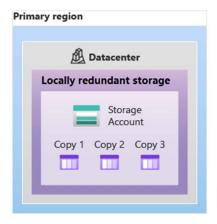


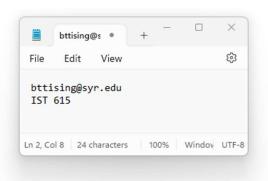
Describe Azure Storage Services:



Locally redundant storage

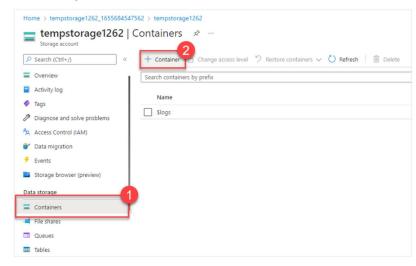
Locally redundant storage (LRS) replicates your data three times within a single data center in the primary region. LRS provides at least 11 nines of durability (99.999999999) of objects over a given year.

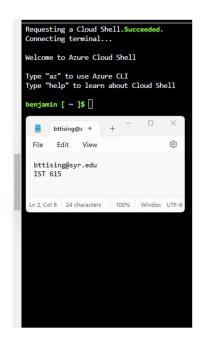


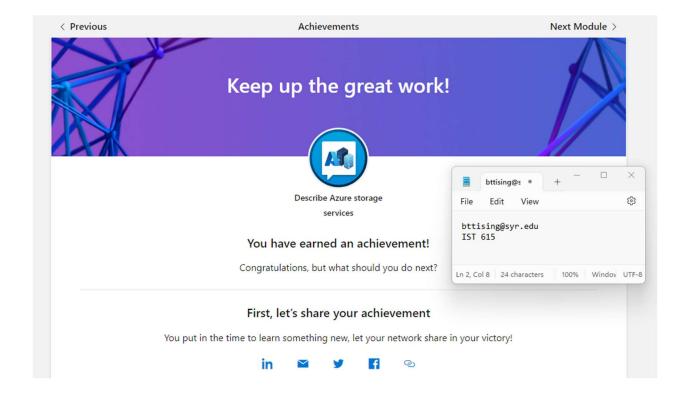


In this section, you'll create a Blob container and upload a picture.

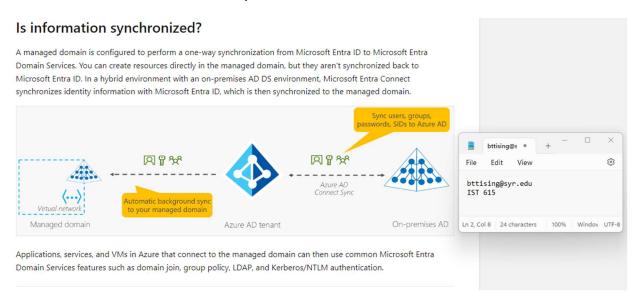
1. Under Data storage, select Containers.



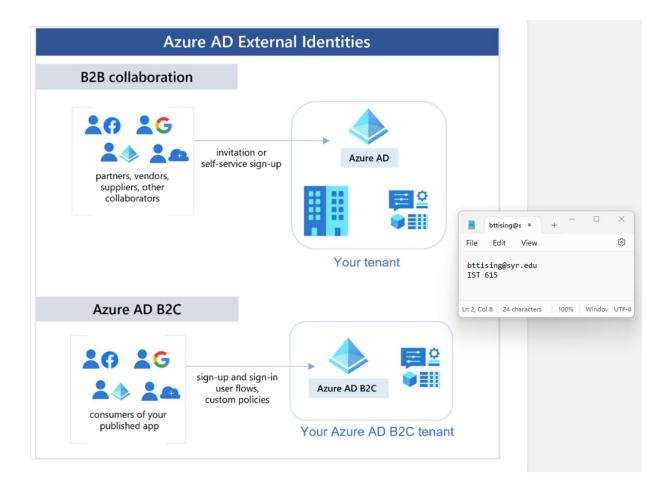




Describe the Core Architecture Components of Azure:



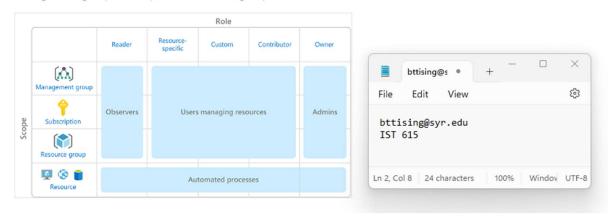


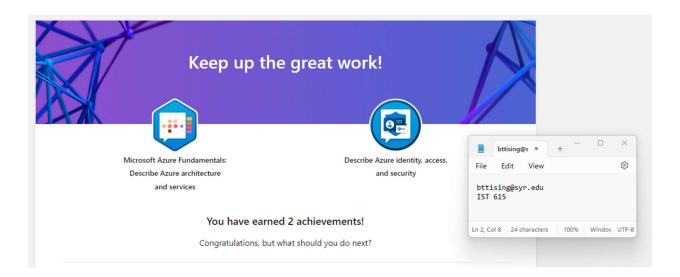


How is role-based access control applied to resources?

Role-based access control is applied to a scope, which is a resource or set of resources that this access applies to.

The following diagram shows the relationship between roles and scopes. A management group, subscription, or resource group might be given the role of owner, so they have increased control and authority. An observer, who isn't expected to make any updates, might be given a role of Reader for the same scope, enabling them to review or observe the management group, subscription, or resource group.





Layers of defense-in-depth

You can visualize defense-in-depth as a set of layers, with the data to be secured at the center and all the other layers functioning to protect that central data layer.

