table of contents

- Part 1: Intro
- Part 3: Usage Fees (Possibility)
- Part 3: Application for use
- Part 4: Flow of Usage Fees
- Part 5: How to use representative services
  - Add an owner
  - Get started with OpenAI's services
  - Let's create a virtual machine
  - Use a notebook

caution

- This slide was created for the April 18, 2025 UTokyo Azure Usage Briefing.
- Azure specifications change frequently, so if the following does not work, please refer to the Azure documentation.

Let's create a virtual machine

Case study:
“I want to LoRA fine-tuning the Llama-3 model of 3B.”

What is a Virtual Machine?

- A **virtual machine (VM)** is a technology that allows you to create a virtual computer on a cloud server.

- You have the flexibility to customize your computing environment just like building your own physical machine.

- Want a **GPU**? You can include one.
- Need **48 CPUs**? That’s possible.
- Want **1TB of storage**? No problem.

- You can also create **multiple virtual machines with different specifications** and have them work together to process a single task or file.
  This allows for **parallel processing** and is useful for handling large-scale workloads or experiments.

Roadmap

1. **Check the required machine specifications**
2. **Create a Virtual Machine**
    2.1 Request a **quota** (approval is required for high-cost resources)
    2.2 Create a VM using the approved resources
3. **Log in to the VM from your local computer**
4. **Share files across multiple virtual machines**
    4.1 Create a **Storage Account**
    4.2 Create a **File Share**
    4.3 **Mount** the file share from each virtual machine
    4.4 Configure automatic mounting on reboot
    4.5 Verify that all virtual machines can read and write to the same file share
5. **Stop the virtual machine to avoid unnecessary charges**

1. Check the required machine specifications

What kind of Azure virtual machine resources match your needs?

- If you want to fine-tune a **large language model**, you'll likely need a **GPU**.
- However, since GPUs are expensive, it's best not to choose a machine with higher specs than necessary.
- I asked **ChatGPT** for advice.
  (Sometimes, ChatGPT may provide incorrect or outdated information, so please make sure to double-check things yourself.)

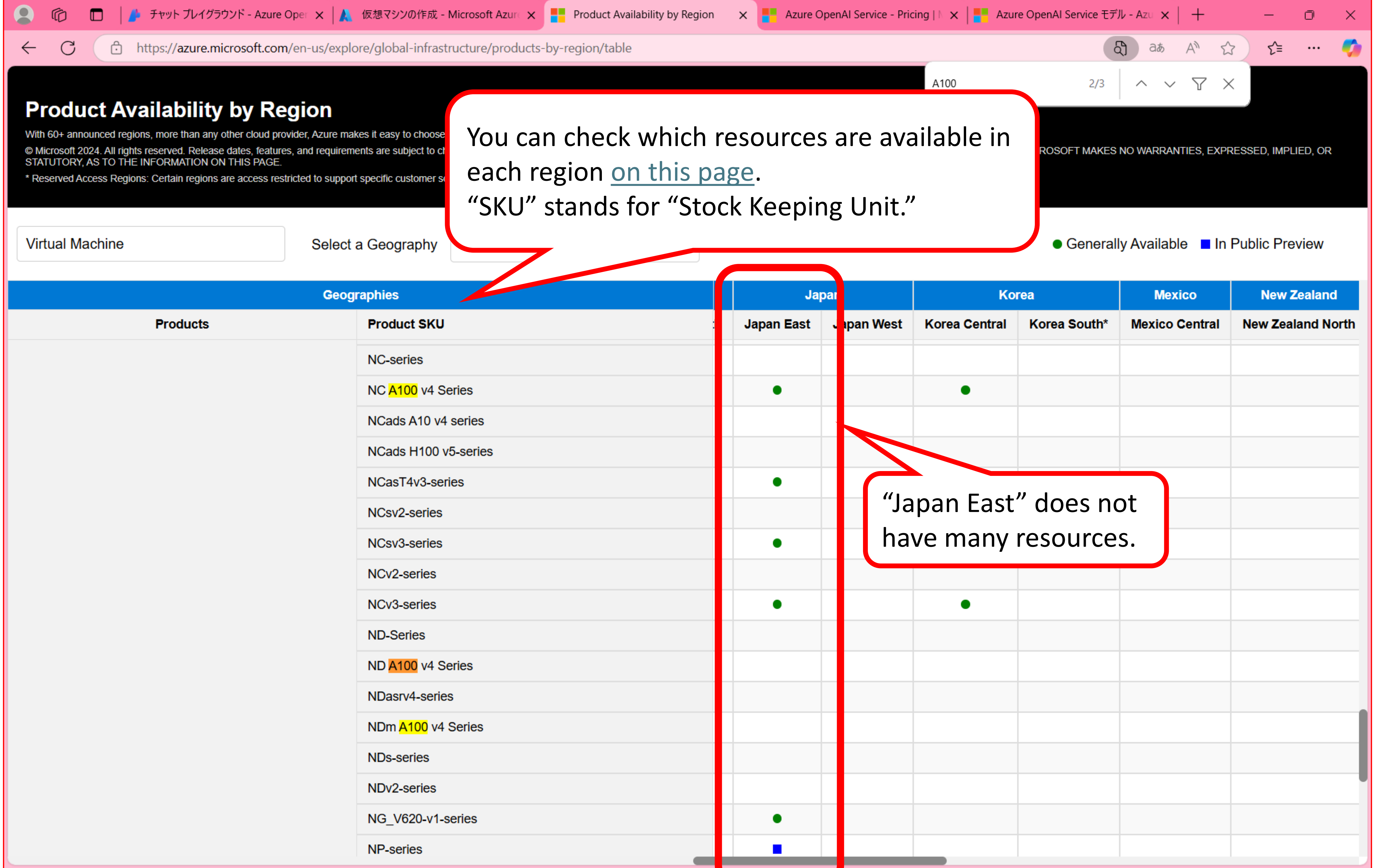
ChatGPT's RESPONSE:

✅ **LoRA fine-tuning for LLaMA-3 13B requires an A100 80GB GPU**

✅ The optimal choice is **Standard_NC24ads_A100_v4** (1x A100, 24 vCPUs)

✅ When requesting a quota, apply for **"Standard NCADS_A100_v4 Family vCPUs"** with **24 vCPUs**

✅ If you're planning larger-scale training, consider requesting **48 or 96 vCPUs**


チャット プレイグラウンド - Azure Oper
仮想マシンの作成 - Microsoft Azur
Product Availability by Region
Azure OpenAI Service - Pricing | N
Azure OpenAI Service モデル - Azu
https://azure.microsoft.com/en-us/explore/global-infrastructure/products-by-region/table
A100
2/3

You can check which resources are available in each region on this page.
"SKU" stands for "Stock Keeping Unit."

Product Availability by Region

With 60+ announced regions, more than any other cloud provider, Azure makes it easy to choose

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* Reserved Access Regions: Certain regions are access restricted to support specific customer s

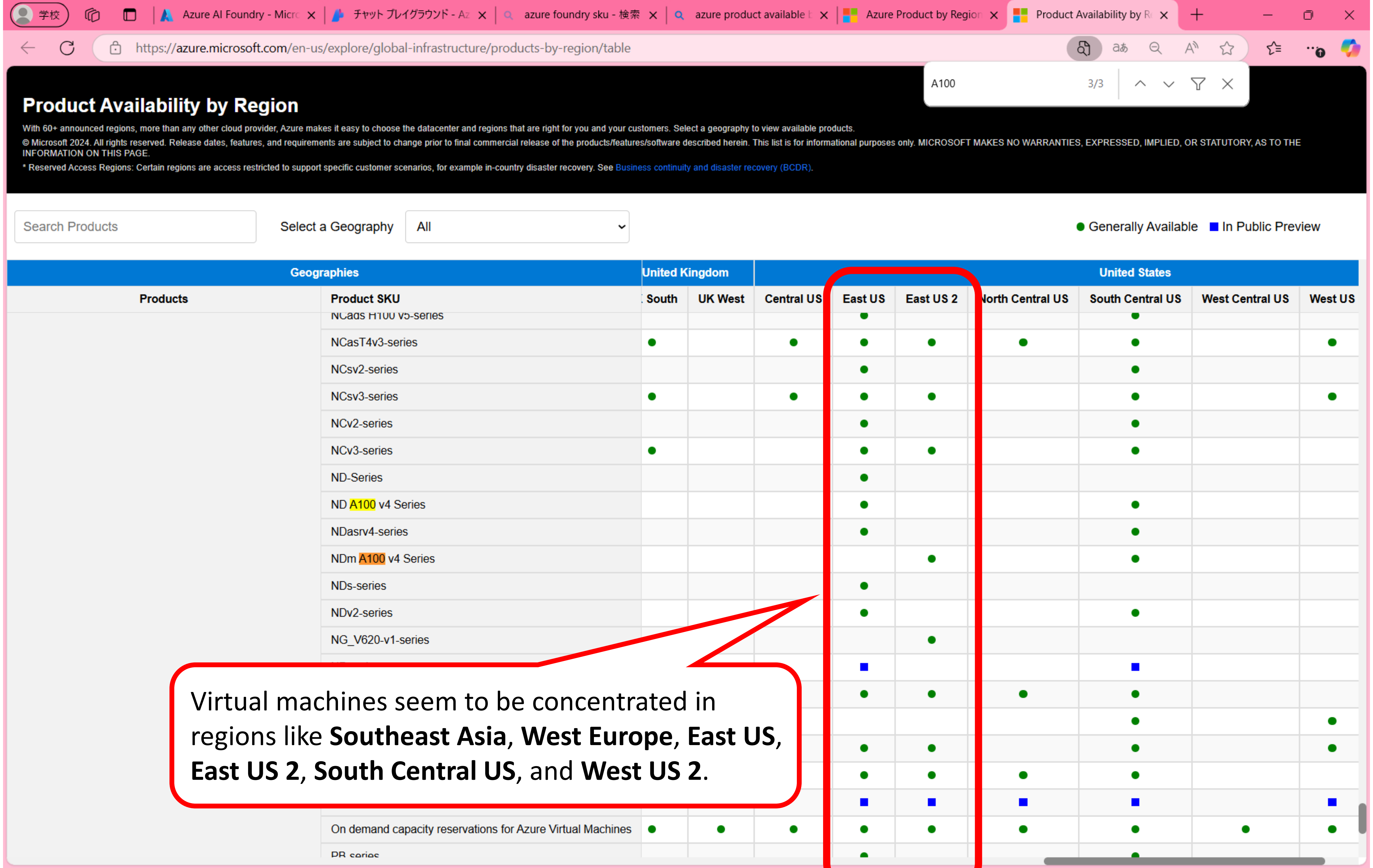
Virtual Machine

Select a Geography

● Generally Available ■ In Public Preview

Geographies		Japan		Korea		Mexico	New Zealand
Products	Product SKU	Japan East	Japan West	Korea Central	Korea South*	Mexico Central	New Zealand North
	NC-series						
	NC A100 v4 Series	●		●			
	NCads A10 v4 series						
	NCads H100 v5-series						
	NCasT4v3-series	●					
	NCsv2-series						
	NCsv3-series	●					
	NCv2-series						
	NCv3-series	●		●			
	ND-Series						
	ND A100 v4 Series						
	NDasrv4-series						
	NDm A100 v4 Series						
	NDs-series						
	NDv2-series						
	NG_V620-v1-series	●					
	NP-series	■					

"Japan East" does not have many resources.



https://azure.microsoft.com/en-us/explore/global-infrastructure/products-by-region/table

Product Availability by Region

With 60+ announced regions, more than any other cloud provider, Azure makes it easy to choose the datacenter and regions that are right for you and your customers. Select a geography to view available products.

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* Reserved Access Regions: Certain regions are access restricted to support specific customer scenarios, for example in-country disaster recovery. See Business continuity and disaster recovery (BCDR).

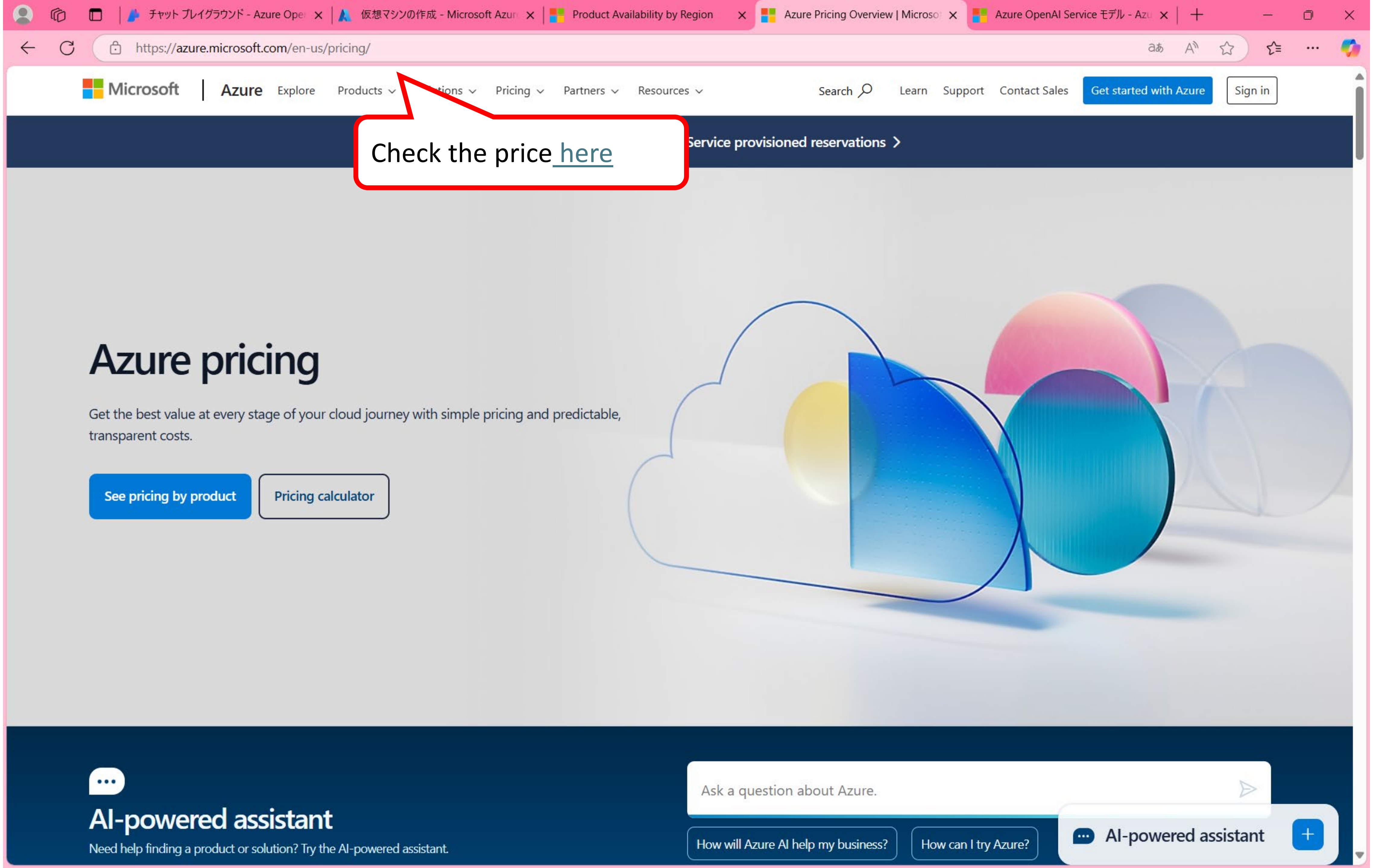
Search Products

Select a Geography: All

● Generally Available ■ In Public Preview

Geographies		United Kingdom		United States						
Products	Product SKU	South	UK West	Central US	East US	East US 2	North Central US	South Central US	West Central US	West US
	NCads H100 v5-series				●			●		
	NCasT4v3-series	●		●	●	●	●	●		●
	NCsv2-series				●			●		
	NCsv3-series	●		●	●	●		●		●
	NCv2-series				●			●		
	NCv3-series	●			●	●		●		
	ND-Series				●					
	ND A100 v4 Series				●			●		
	NDasrv4-series				●			●		
	NDm A100 v4 Series					●		●		
	NDs-series				●					
	NDv2-series				●			●		
	NG_V620-v1-series					●				
					■			■		
					●	●	●	●		
								●		●
					●	●		●		●
					●	●	●	●		
					■	■	■	■		■
	On demand capacity reservations for Azure Virtual Machines	●	●	●	●	●	●	●	●	●
	PB series				●			●		

Virtual machines seem to be concentrated in regions like **Southeast Asia**, **West Europe**, **East US**, **East US 2**, **South Central US**, and **West US 2**.



Check the price here

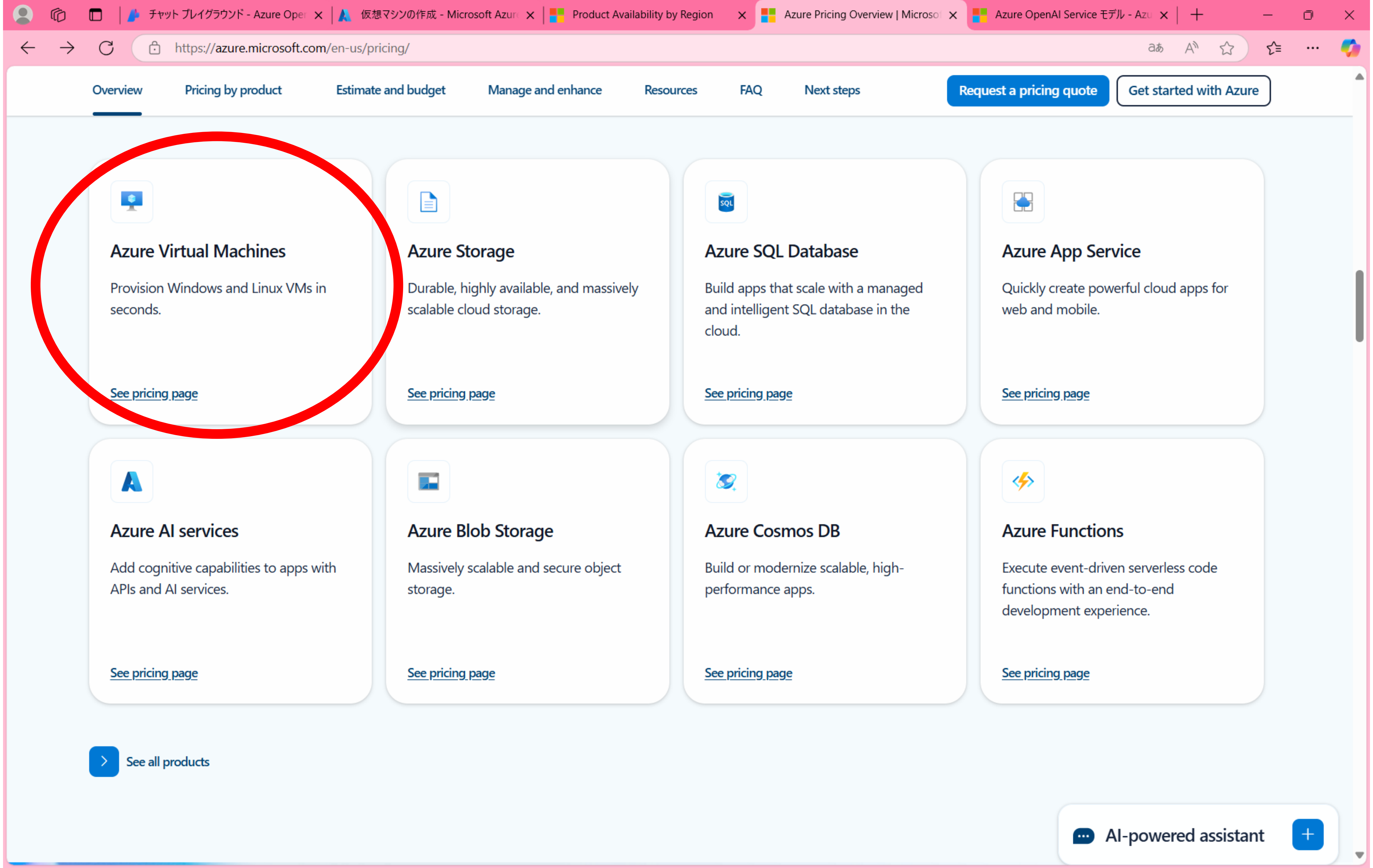
Azure pricing

Get the best value at every stage of your cloud journey with simple pricing and predictable, transparent costs.

AI-powered assistant

Need help finding a product or solution? Try the AI-powered assistant.

チャット プレイグラウンド - Azure Ope
仮想マシンの作成 - Microsoft Azur
Product Availability by Region
Azure Pricing Overview | Microso
Azure OpenAI Service モデル - Azu
https://azure.microsoft.com/en-us/pricing/
Microsoft
Azure
Explore
Products
tions
Pricing
Partners
Resources
Search
Learn
Support
Contact Sales
Get started with Azure
Sign in
Service provisioned reservations
See pricing by product
Pricing calculator
Ask a question about Azure.
How will Azure AI help my business?
How can I try Azure?
AI-powered assistant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Product Availability by Region
Azure Pricing Overview | Microso
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Overview
Pricing by product
Estimate and budget
Manage and enhance
Resources
FAQ
Next steps
Request a pricing quote
Get started with Azure

Azure Virtual Machines

Provision Windows and Linux VMs in seconds.

See pricing page

Azure Storage

Durable, highly available, and massively scalable cloud storage.

See pricing page

Azure SQL Database

Build apps that scale with a managed and intelligent SQL database in the cloud.

See pricing page

Azure App Service

Quickly create powerful cloud apps for web and mobile.

See pricing page

Azure AI services

Add cognitive capabilities to apps with APIs and AI services.

See pricing page

Azure Blob Storage

Massively scalable and secure object storage.

See pricing page

Azure Cosmos DB

Build or modernize scalable, high-performance apps.

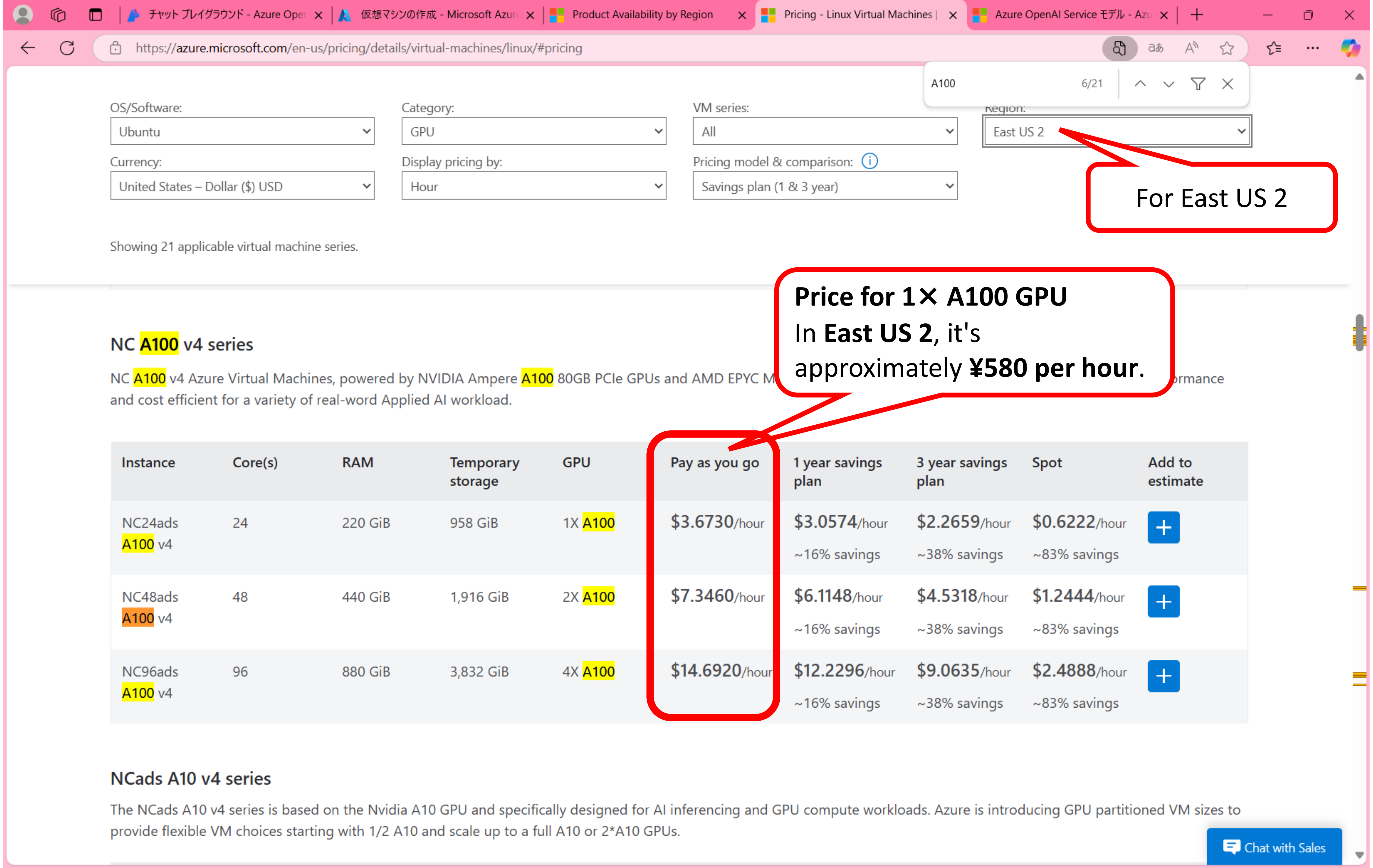
See pricing page

Azure Functions

Execute event-driven serverless code functions with an end-to-end development experience.

See pricing page

See all products
AI-powered assistant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https://azure.microsoft.com/en-us/pricing/details/virtual-machines/linux/#pricing
A100
6/21
Chat with Sales

OS/Software: Ubuntu

Category: GPU

VM series: All

Region: East US 2

Currency: United States – Dollar ($) USD

Display pricing by: Hour

Pricing model & comparison: Savings plan (1 & 3 year)

Showing 21 applicable virtual machine series.

For East US 2

Price for 1× A100 GPU
In **East US 2**, it's
approximately **¥580 per hour**.

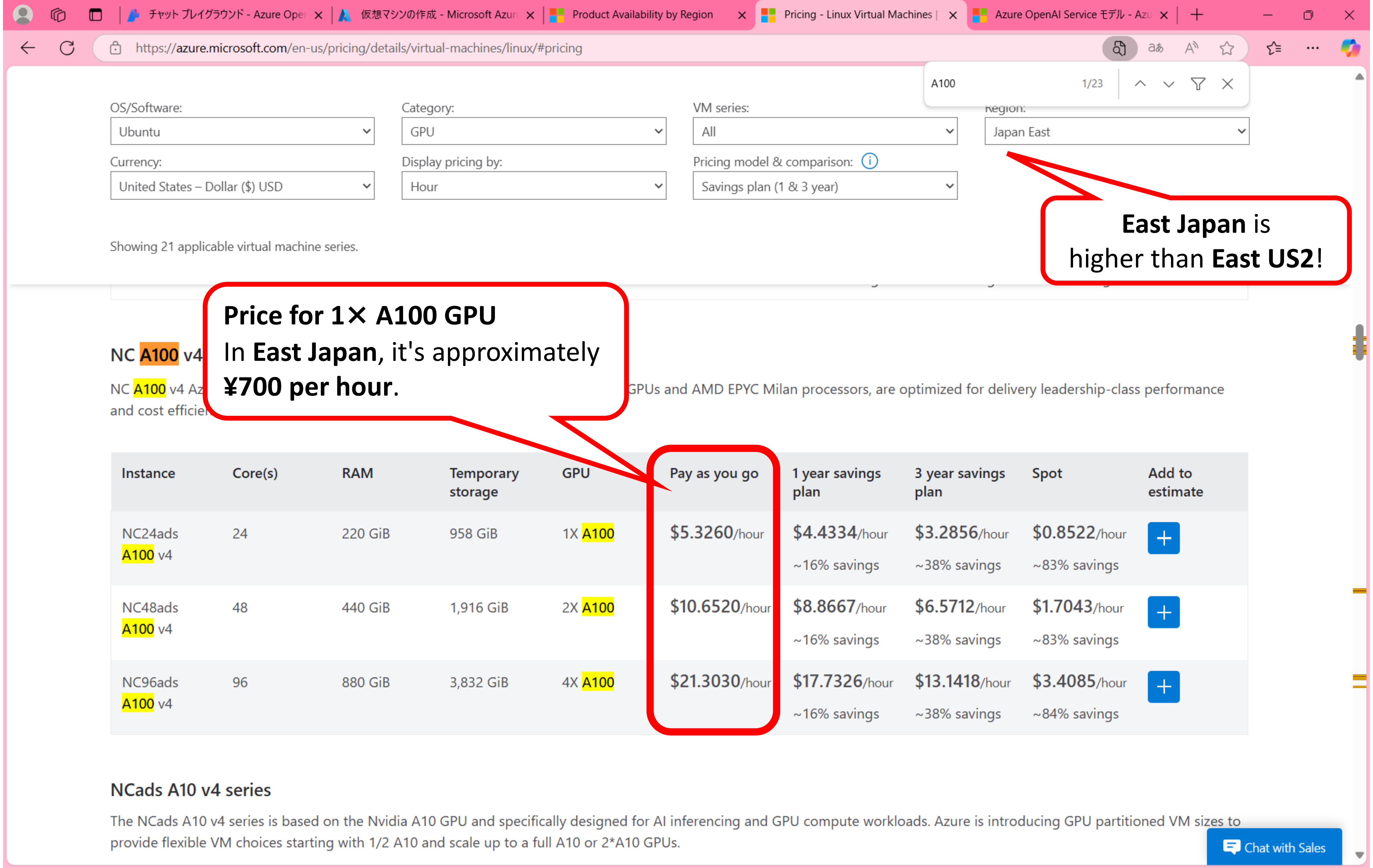
NC A100 v4 series

NC A100 v4 Azure Virtual Machines, powered by NVIDIA Ampere A100 80GB PCIe GPUs and AMD EPYC M… …rmance and cost efficient for a variety of real-word Applied AI workload.

Instance	Core(s)	RAM	Temporary storage	GPU	Pay as you go	1 year savings plan	3 year savings plan	Spot	Add to estimate
NC24ads A100 v4	24	220 GiB	958 GiB	1X A100	$3.6730/hour	$3.0574/hour ~16% savings	$2.2659/hour ~38% savings	$0.6222/hour ~83% savings	+
NC48ads A100 v4	48	440 GiB	1,916 GiB	2X A100	$7.3460/hour	$6.1148/hour ~16% savings	$4.5318/hour ~38% savings	$1.2444/hour ~83% savings	+
NC96ads A100 v4	96	880 GiB	3,832 GiB	4X A100	$14.6920/hour	$12.2296/hour ~16% savings	$9.0635/hour ~38% savings	$2.4888/hour ~83% savings	+

NCads A10 v4 series

The NCads A10 v4 series is based on the Nvidia A10 GPU and specifically designed for AI inferencing and GPU compute workloads. Azure is introducing GPU partitioned VM sizes to provide flexible VM choices starting with 1/2 A10 and scale up to a full A10 or 2*A10 GPUs.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https://azure.microsoft.com/en-us/pricing/details/virtual-machines/linux/#pricing
A100
1/23
Chat with Sales

OS/Software: Ubuntu

Category: GPU

VM series: All

Region: Japan East

Currency: United States – Dollar ($) USD

Display pricing by: Hour

Pricing model & comparison: Savings plan (1 & 3 year)

Showing 21 applicable virtual machine series.

East Japan is higher than **East US2**!

Price for 1× A100 GPU

In **East Japan**, it's approximately **¥700 per hour**.

NC A100 v4

NC A100 v4 Az GPUs and AMD EPYC Milan processors, are optimized for delivery leadership-class performance and cost efficie

Instance	Core(s)	RAM	Temporary storage	GPU	Pay as you go	1 year savings plan	3 year savings plan	Spot	Add to estimate
NC24ads A100 v4	24	220 GiB	958 GiB	1X A100	$5.3260/hour	$4.4334/hour ~16% savings	$3.2856/hour ~38% savings	$0.8522/hour ~83% savings	+
NC48ads A100 v4	48	440 GiB	1,916 GiB	2X A100	$10.6520/hour	$8.8667/hour ~16% savings	$6.5712/hour ~38% savings	$1.7043/hour ~83% savings	+
NC96ads A100 v4	96	880 GiB	3,832 GiB	4X A100	$21.3030/hour	$17.7326/hour ~16% savings	$13.1418/hour ~38% savings	$3.4085/hour ~84% savings	+

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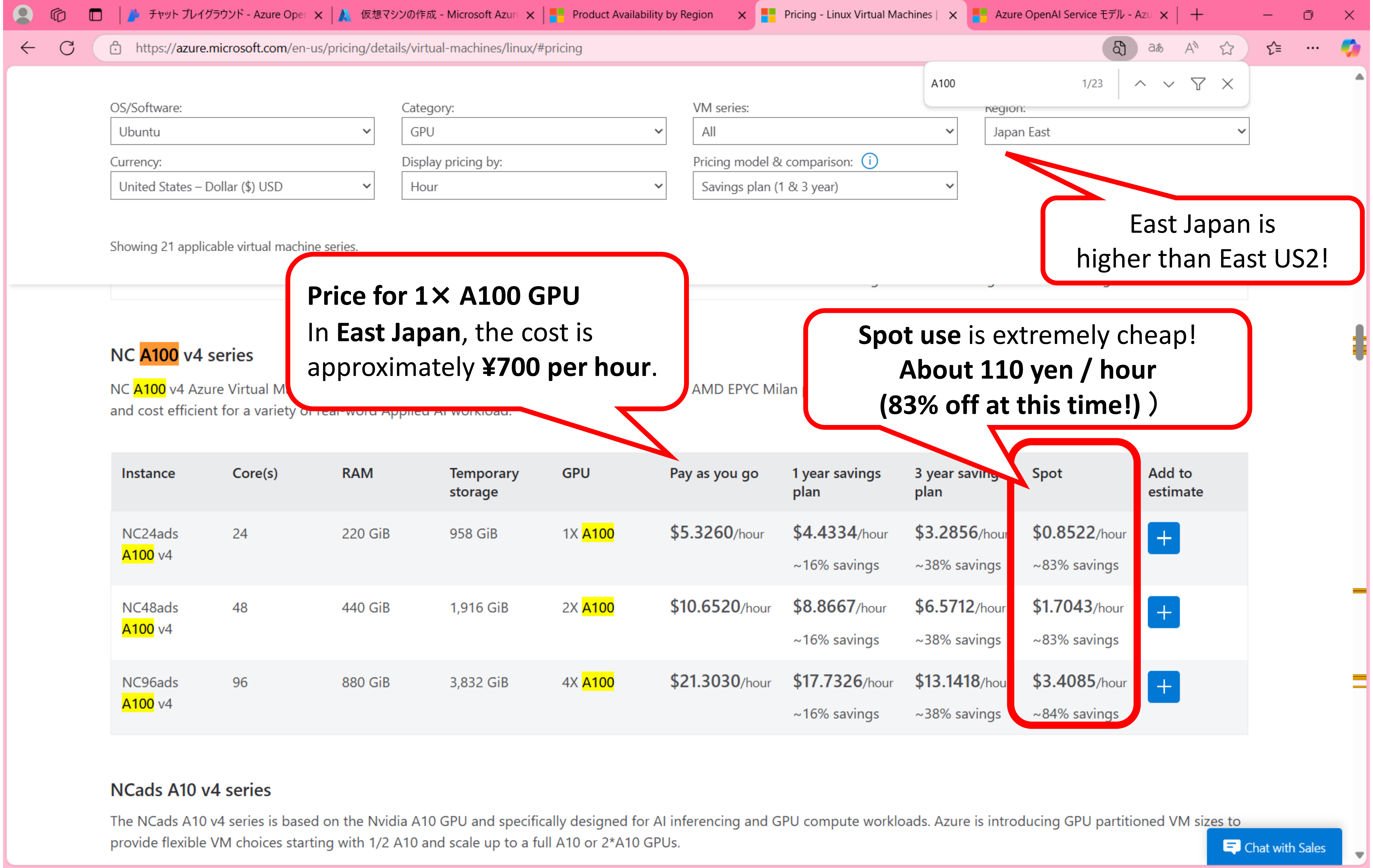
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仮想マシンの作成 - Microsoft Azur
Product Availability by Region
Pricing - Linux Virtual Machines |
Azure OpenAI Service モデル - Azu
https://azure.microsoft.com/en-us/pricing/details/virtual-machines/linux/#pricing
A100
1/23
Chat with Sales

OS/Software: Ubuntu

Category: GPU

VM series: All

Region: Japan East

Currency: United States – Dollar ($) USD

Display pricing by: Hour

Pricing model & comparison: Savings plan (1 & 3 year)

Showing 21 applicable virtual machine series.

East Japan is
higher than East US2!

Price for 1× A100 GPU
In **East Japan**, the cost is
approximately **¥700 per hour**.

Spot use is extremely cheap!
About 110 yen / hour
(83% off at this time!))

NC A100 v4 series

NC A100 v4 Azure Virtual M… AMD EPYC Milan … and cost efficient for a variety of real-world Applied AI workload.

Instance	Core(s)	RAM	Temporary storage	GPU	Pay as you go	1 year savings plan	3 year savings plan	Spot	Add to estimate
NC24ads A100 v4	24	220 GiB	958 GiB	1X A100	$5.3260/hour	$4.4334/hour ~16% savings	$3.2856/hour ~38% savings	$0.8522/hour ~83% savings	+
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What is a Spot Virtual Machine? (Azure documentation)

You can use spot VMs at a **discounted rate (up to 90% off)** when Azure has surplus capacity. However, if demand for the resource increases, your VM may be **forcibly stopped**.

- The **discount rate** varies depending on **VM size**, **region**, and **time of day**.

Deletion Type:

Specifies under what conditions the VM will be deleted:

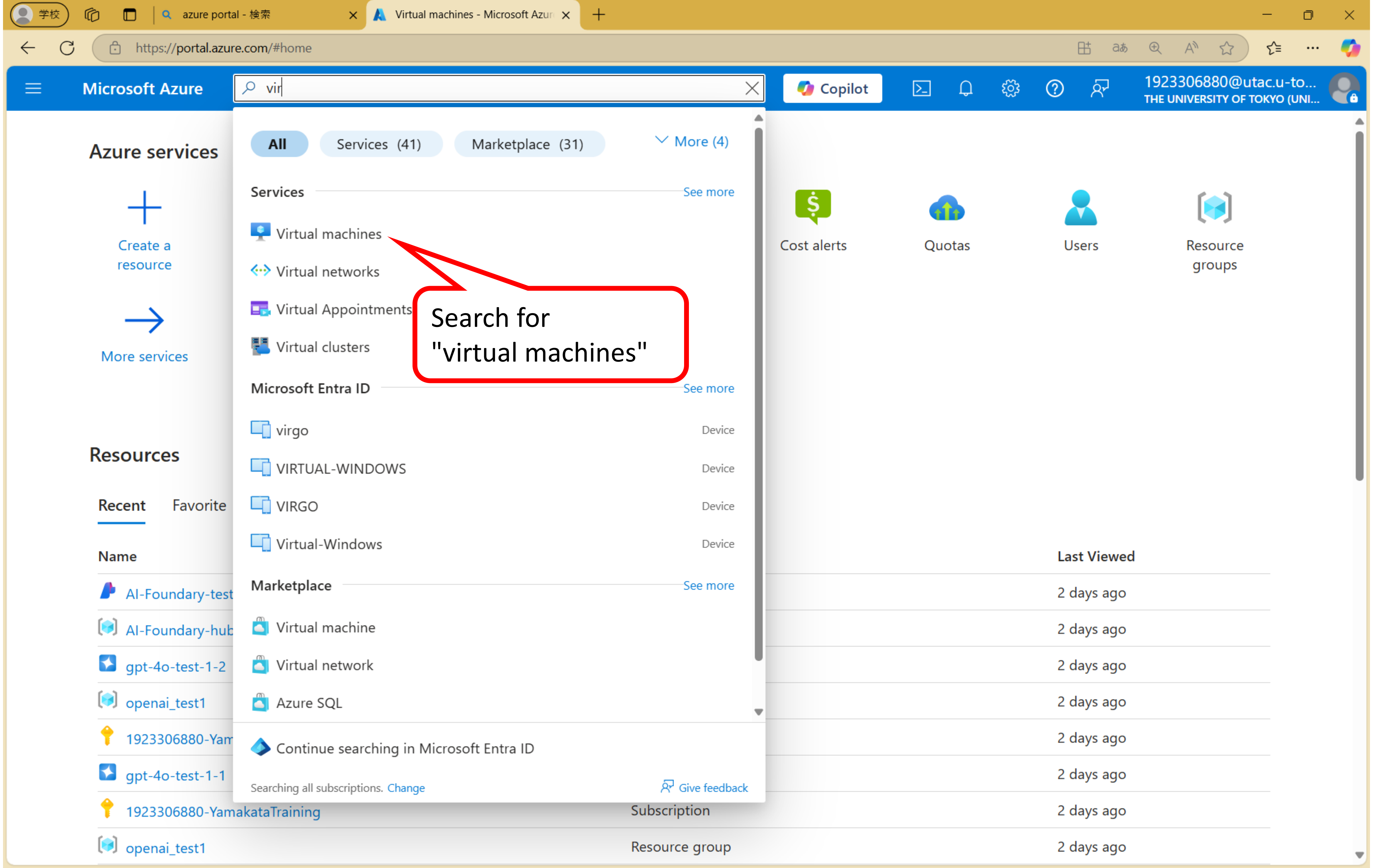
- **Capacity only**: The VM is deleted when Azure runs low on capacity.
- **Price or capacity**: The VM is deleted either when capacity runs low **or** the **price exceeds your set threshold**.

Deletion Policy:

Defines **what gets deleted** when deletion is triggered:

- **Stop / Deallocate**: The VM is stopped, but **disks and data are retained**.
  You can restart the VM later and resume from the previous state.
  *(No charges for CPU or GPU while stopped, but **disk and network charges continue**.)*
- **Delete**: The **entire VM, including disks**, is cleaned up.
  *(Make sure to save important data to separate storage beforehand. Once deleted, you are **no longer billed** for this VM.)*

2. **Create a Virtual Machine**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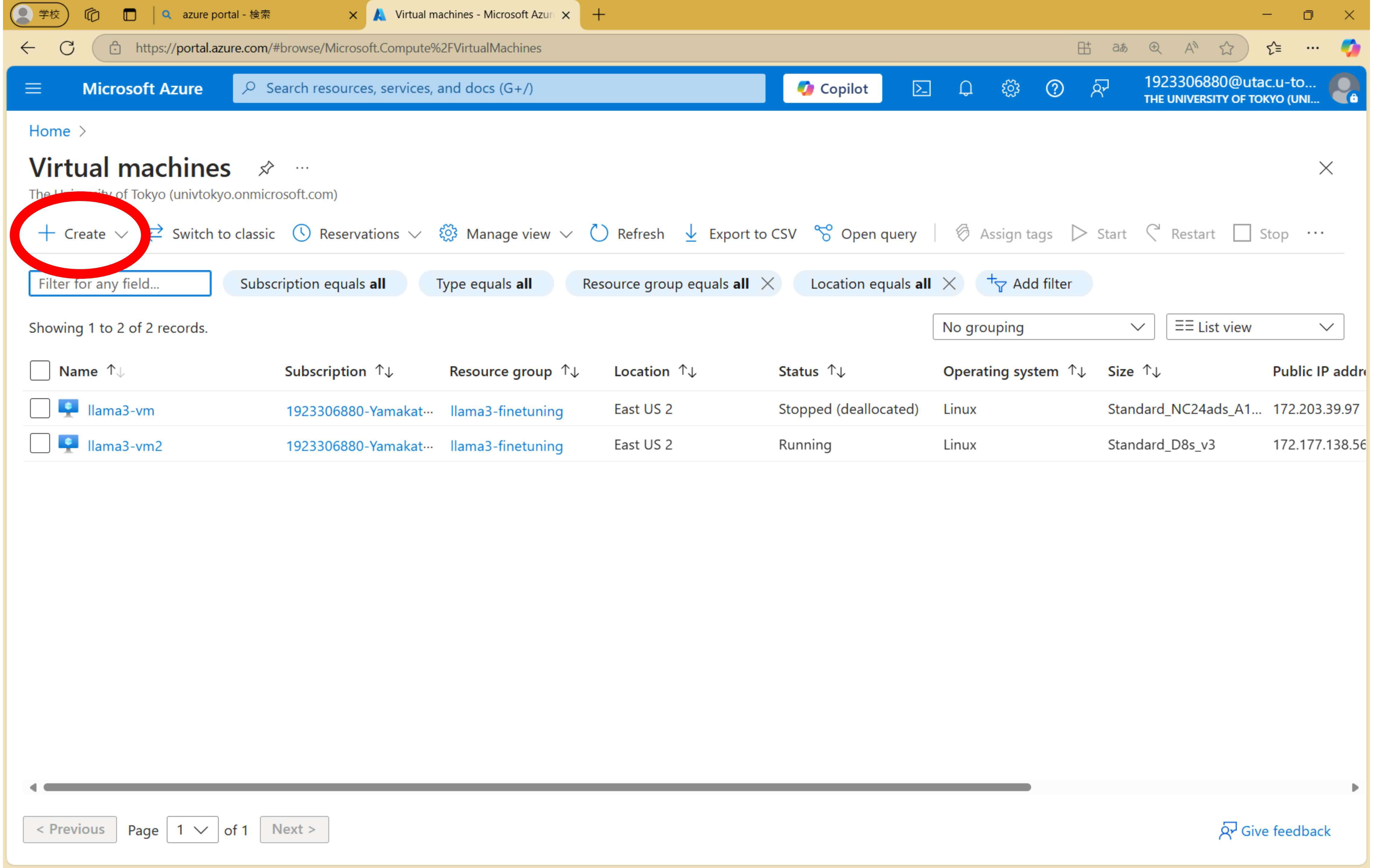
Create a resource
More services
Cost alerts
Quotas
Users
Resource groups
All
Services (41)
Marketplace (31)
More (4)
Services
See more
Virtual machines
Virtual networks
Virtual Appointments
Virtual clusters
Microsoft Entra ID
See more
virgo
Device
VIRTUAL-WINDOWS
Device
VIRGO
Device
Virtual-Windows
Device
Marketplace
See more
Virtual machine
Virtual network
Azure SQL
Continue searching in Microsoft Entra ID
Searching all subscriptions. Change
Give feedback
Resources
Recent
Favorite

Name		Last Viewed
AI-Foundary-test		2 days ago
AI-Foundary-hub		2 days ago
gpt-4o-test-1-2		2 days ago
openai_test1		2 days ago
1923306880-Yam		2 days ago
gpt-4o-test-1-1		2 days ago
1923306880-YamakataTraining	Subscription	2 days ago
openai_test1	Resource group	2 days ago

Search for "virtual machines"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Create
Switch to classic
Reservations
Manage view
Refresh
Export to CSV
Open query
Assign tags
Start
Restart
Stop
Add filter
< Previous
Next >
Give feedback

Virtual machines

The University of Tokyo (univtokyo.onmicrosoft.com)

Filter for any field...

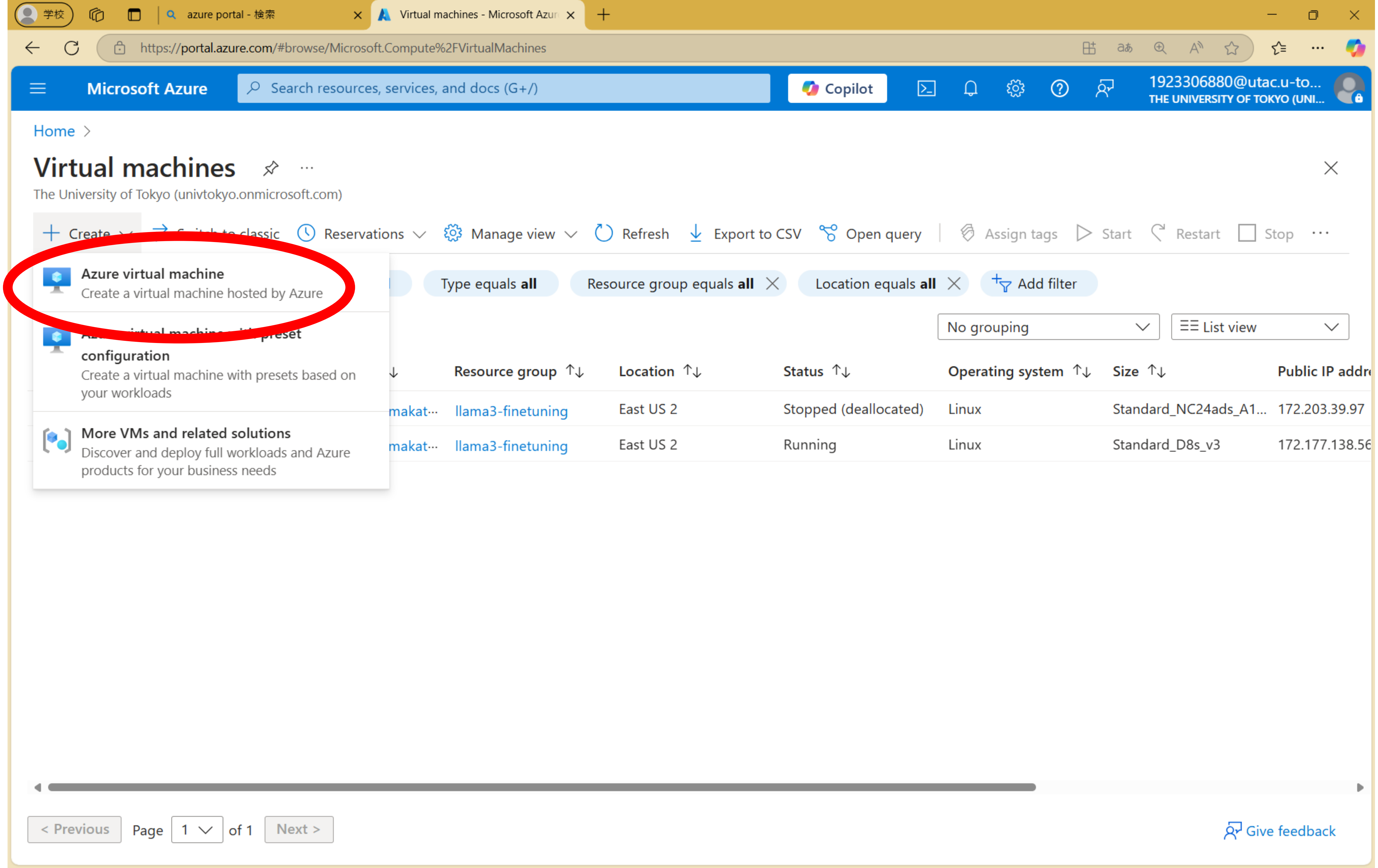
Subscription equals **all**   Type equals **all**   Resource group equals **all**   Location equals **all**

Showing 1 to 2 of 2 records.

No grouping   List view

☐ Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP addr
☐ llama3-vm	1923306880-Yamakat···	llama3-finetuning	East US 2	Stopped (deallocated)	Linux	Standard_NC24ads_A1...	172.203.39.97
☐ llama3-vm2	1923306880-Yamakat···	llama3-finetuning	East US 2	Running	Linux	Standard_D8s_v3	172.177.138.56

Page 1 of 1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https://portal.azure.com/#browse/Microsoft.Compute%2FVirtualMachines
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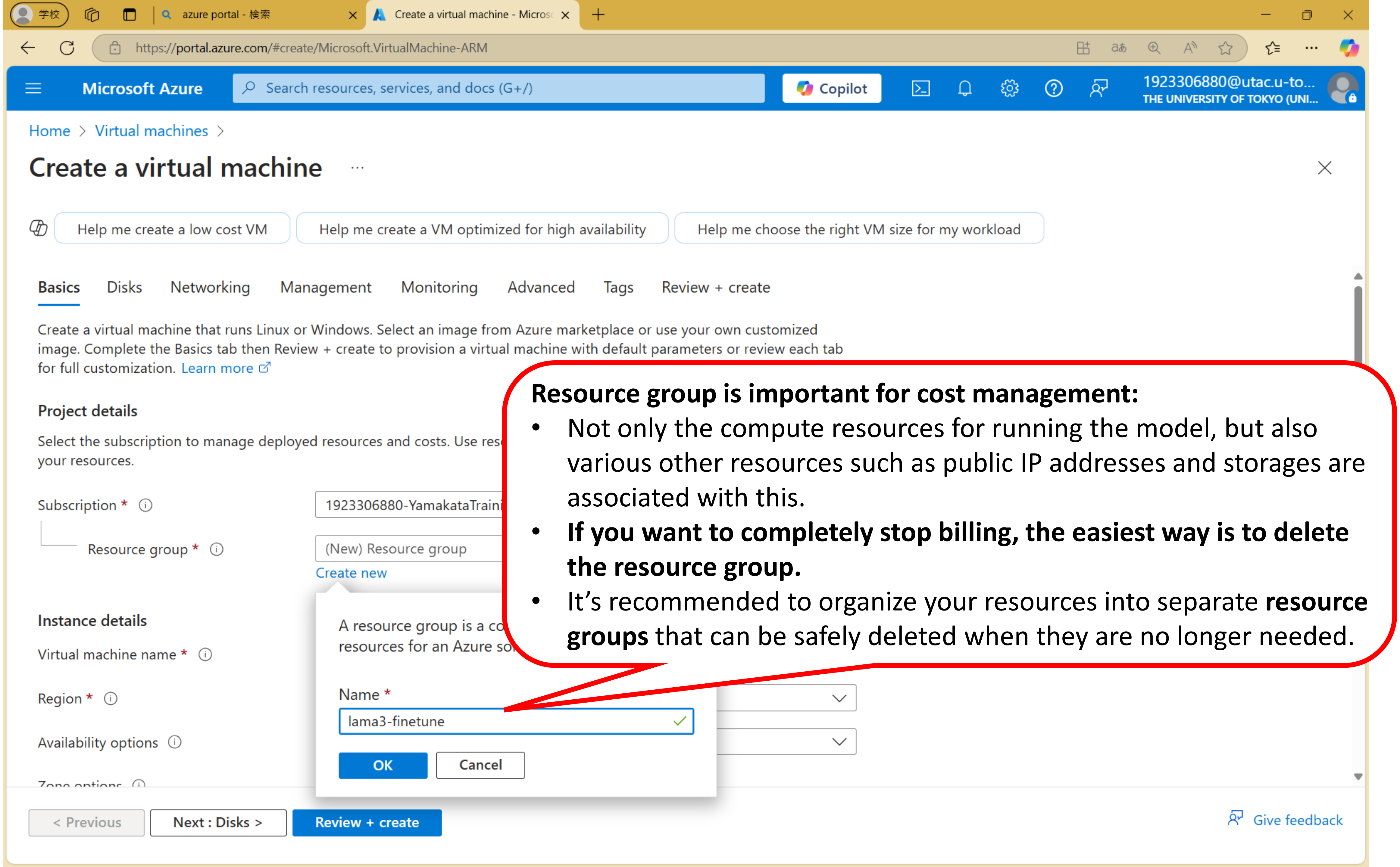
Home
Virtual machines
The University of Tokyo (univtokyo.onmicrosoft.com)
Create
Switch to classic
Reservations
Manage view
Refresh
Export to CSV
Open query
Assign tags
Start
Restart
Stop
Azure virtual machine
Create a virtual machine hosted by Azure
Azure virtual machine with preset configuration
Create a virtual machine with presets based on your workloads
More VMs and related solutions
Discover and deploy full workloads and Azure products for your business needs
Type equals all
Resource group equals all
Location equals all
Add filter
No grouping
List view
< Previous
Page
1
of 1
Next >
Give feedback

	Resource group	Location	Status	Operating system	Size	Public IP addre
makat···	llama3-finetuning	East US 2	Stopped (deallocated)	Linux	Standard_NC24ads_A1...	172.203.39.97
makat···	llama3-finetuning	East US 2	Running	Linux	Standard_D8s_v3	172.177.138.56



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https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM
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Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
OK
Cancel
< Previous
Next : Disks >
Review + create
Give feedback

Create a virtual machine

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more

Project details

Select the subscription to manage deployed resources and costs. Use res your resources.

Subscription * 1923306880-YamakataTraini

Resource group * (New) Resource group

Create new

Instance details

Virtual machine name *

Region *

Availability options

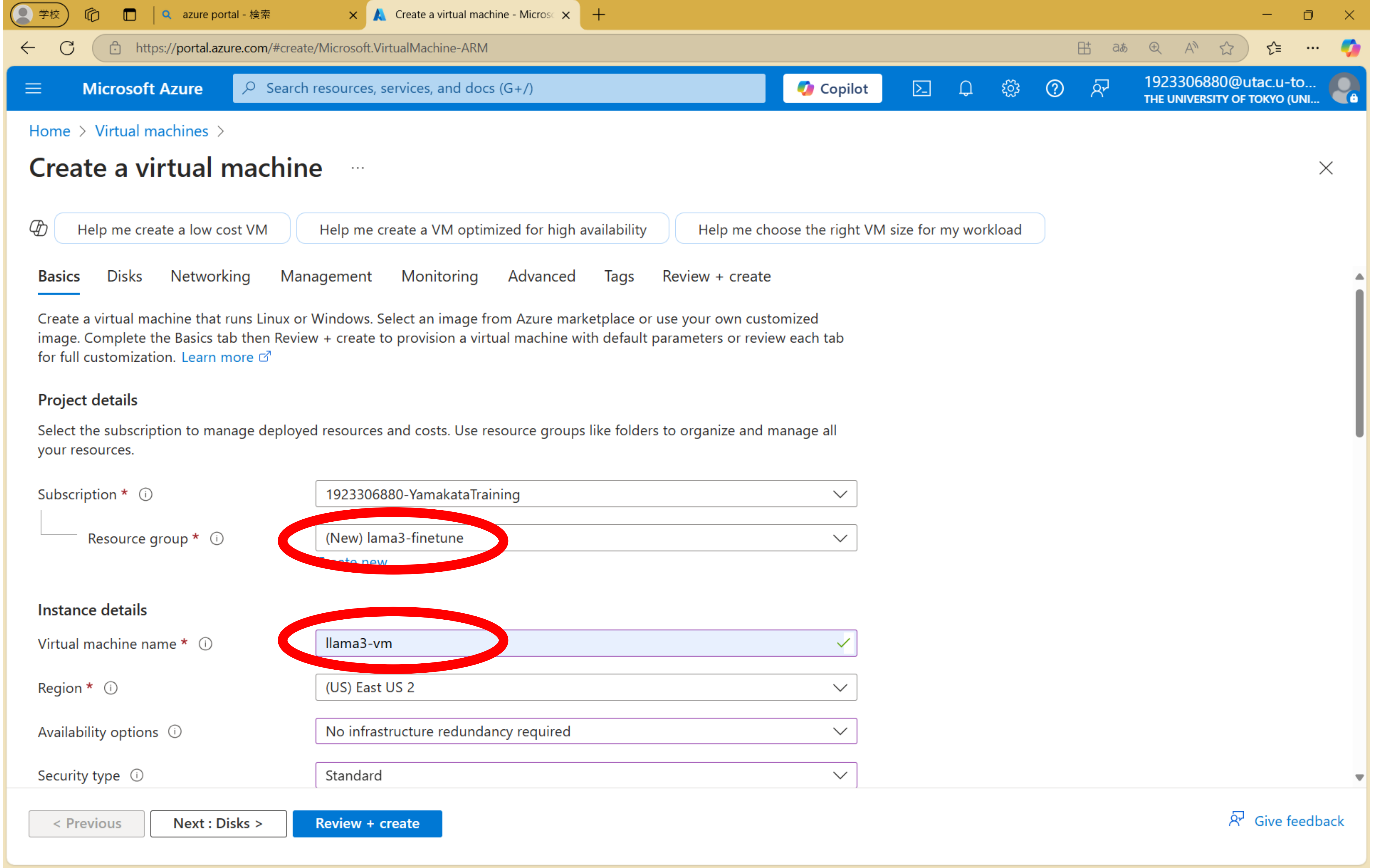
Zone options

A resource group is a co resources for an Azure so

Name * lama3-finetune

Resource group is important for cost management:

- Not only the compute resources for running the model, but also various other resources such as public IP addresses and storages are associated with this.
- **If you want to completely stop billing, the easiest way is to delete the resource group.**
- It’s recommended to organize your resources into separate **resource groups** that can be safely deleted when they are no longer needed.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Disks
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Management
Monitoring
Advanced
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Review + create
Create new
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Give feedback

Create a virtual machine

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * : 1923306880-YamakataTraining

Resource group * : (New) lama3-finetune

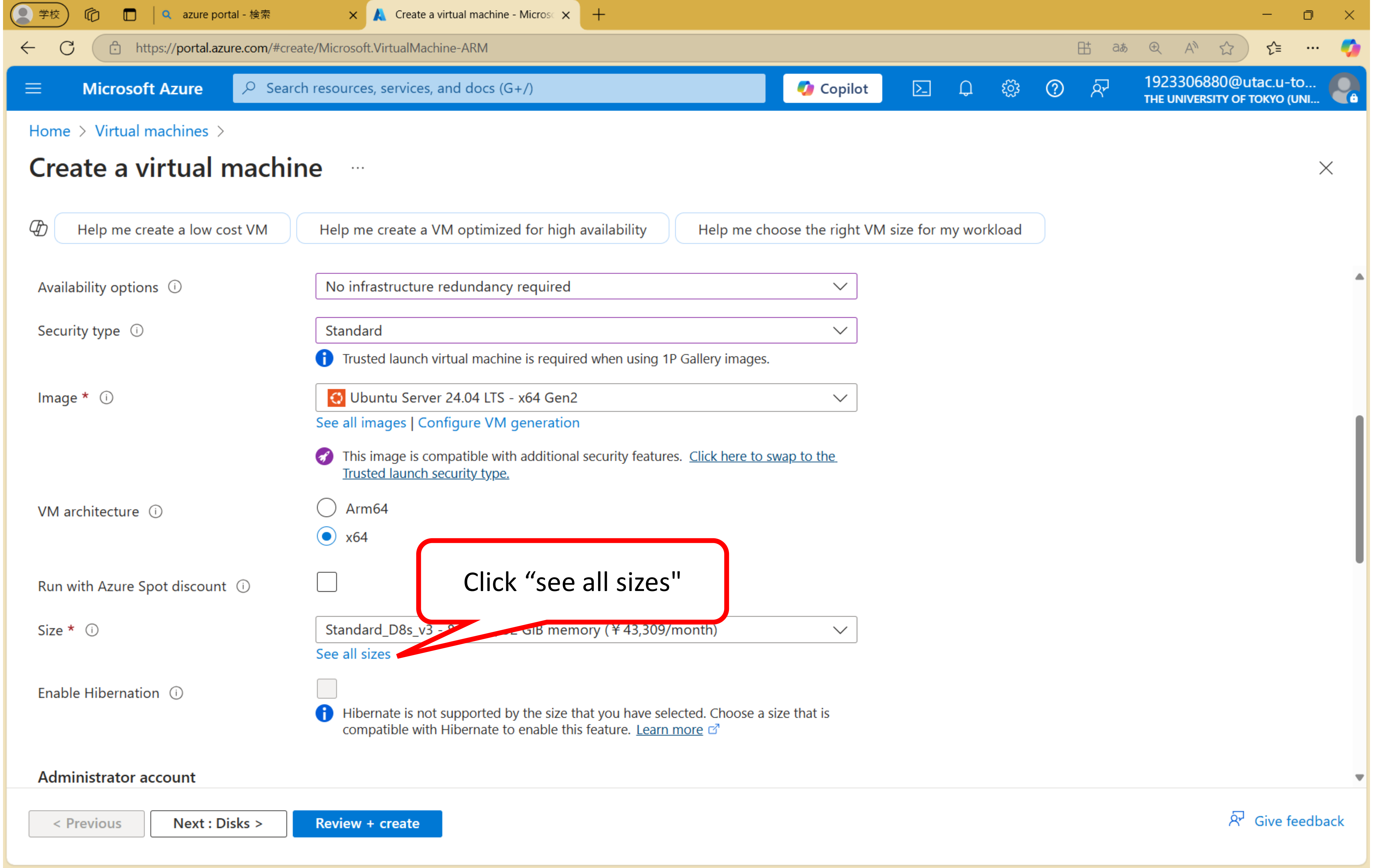
Instance details

Virtual machine name * : llama3-vm

Region * : (US) East US 2

Availability options : No infrastructure redundancy required

Security type : Standard



azure portal - 検索
Create a virtual machine - Micros
https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
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Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload

Create a virtual machine

Availability options: No infrastructure redundancy required

Security type: Standard

Trusted launch virtual machine is required when using 1P Gallery images.

Image *: Ubuntu Server 24.04 LTS - x64 Gen2

See all images | Configure VM generation

This image is compatible with additional security features. Click here to swap to the Trusted launch security type.

VM architecture:
○ Arm64
● x64

Run with Azure Spot discount: ☐

Size *: Standard_D8s_v3 - GiB memory (￥43,309/month)

See all sizes

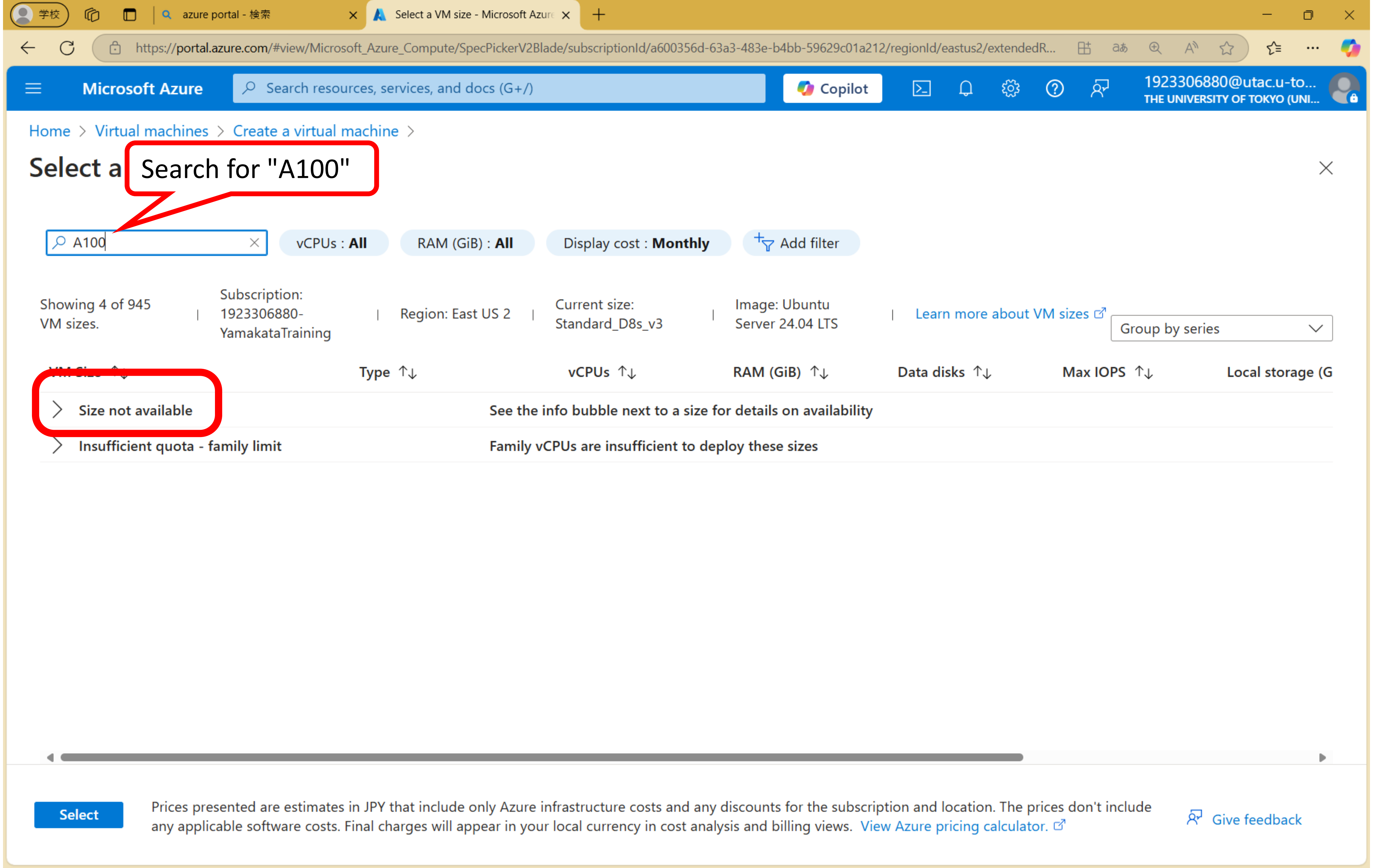
Enable Hibernation: ☐

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more

Administrator account

< Previous
Next : Disks >
Review + create
Give feedback

Click “see all sizes"


学校
azure portal - 検索
Select a VM size - Microsoft Azure
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
1923306880@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...

Home > Virtual machines > Create a virtual machine >

Select a

Search for "A100"

A100

vCPUs : **All** | RAM (GiB) : **All** | Display cost : **Monthly** | Add filter

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_D8s_v3 | Image: Ubuntu Server 24.04 LTS | Learn more about VM sizes

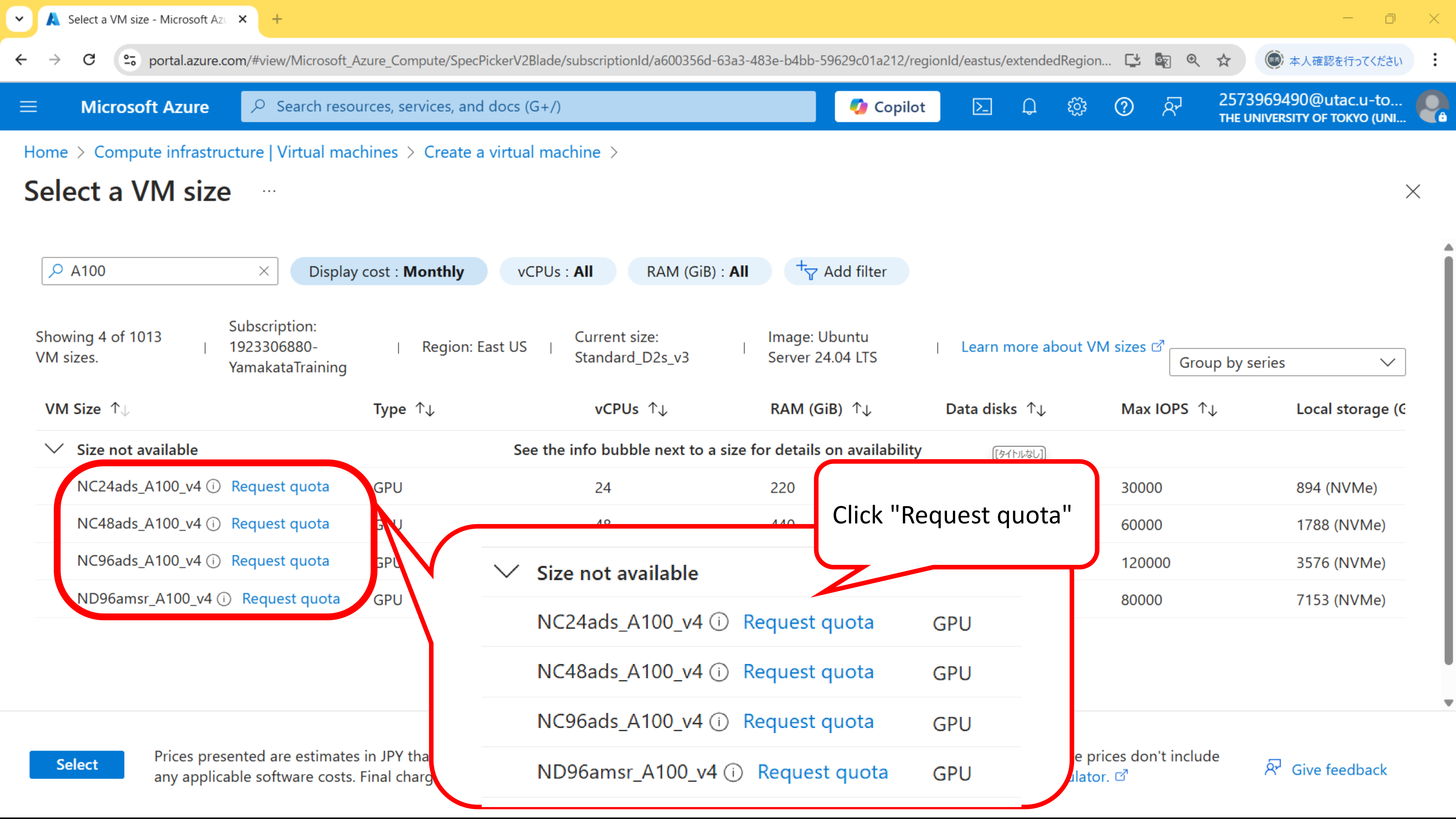
Group by series

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Local storage (G
> **Size not available**	**See the info bubble next to a size for details on availability**					
> **Insufficient quota - family limit**	**Family vCPUs are insufficient to deploy these sizes**					

Select

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

Give feedback



Select a VM size - Microsoft Az
portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus/extendedRegion...
本人確認を行ってください
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
2573969490@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...
Home > Compute infrastructure | Virtual machines > Create a virtual machine >

Select a VM size

A100
Display cost : **Monthly**
vCPUs : **All**
RAM (GiB) : **All**
Add filter

Showing 4 of 1013 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US | Current size: Standard_D2s_v3 | Image: Ubuntu Server 24.04 LTS | Learn more about VM sizes

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Local storage (G
Size not available		See the info bubble next to a size for details on availability				
NC24ads_A100_v4 ⓘ Request quota	GPU	24	220		30000	894 (NVMe)
NC48ads_A100_v4 ⓘ Request quota					60000	1788 (NVMe)
NC96ads_A100_v4 ⓘ Request quota					120000	3576 (NVMe)
ND96amsr_A100_v4 ⓘ Request quota	GPU				80000	7153 (NVMe)

Click "Request quota"

Size not available
NC24ads_A100_v4 ⓘ Request quota GPU
NC48ads_A100_v4 ⓘ Request quota GPU
NC96ads_A100_v4 ⓘ Request quota GPU
ND96amsr_A100_v4 ⓘ Request quota GPU

Prices presented are estimates in JPY tha… any applicable software costs. Final charg… …e prices don't include …ulator.

Give feedback

2.1 Request a **quota**

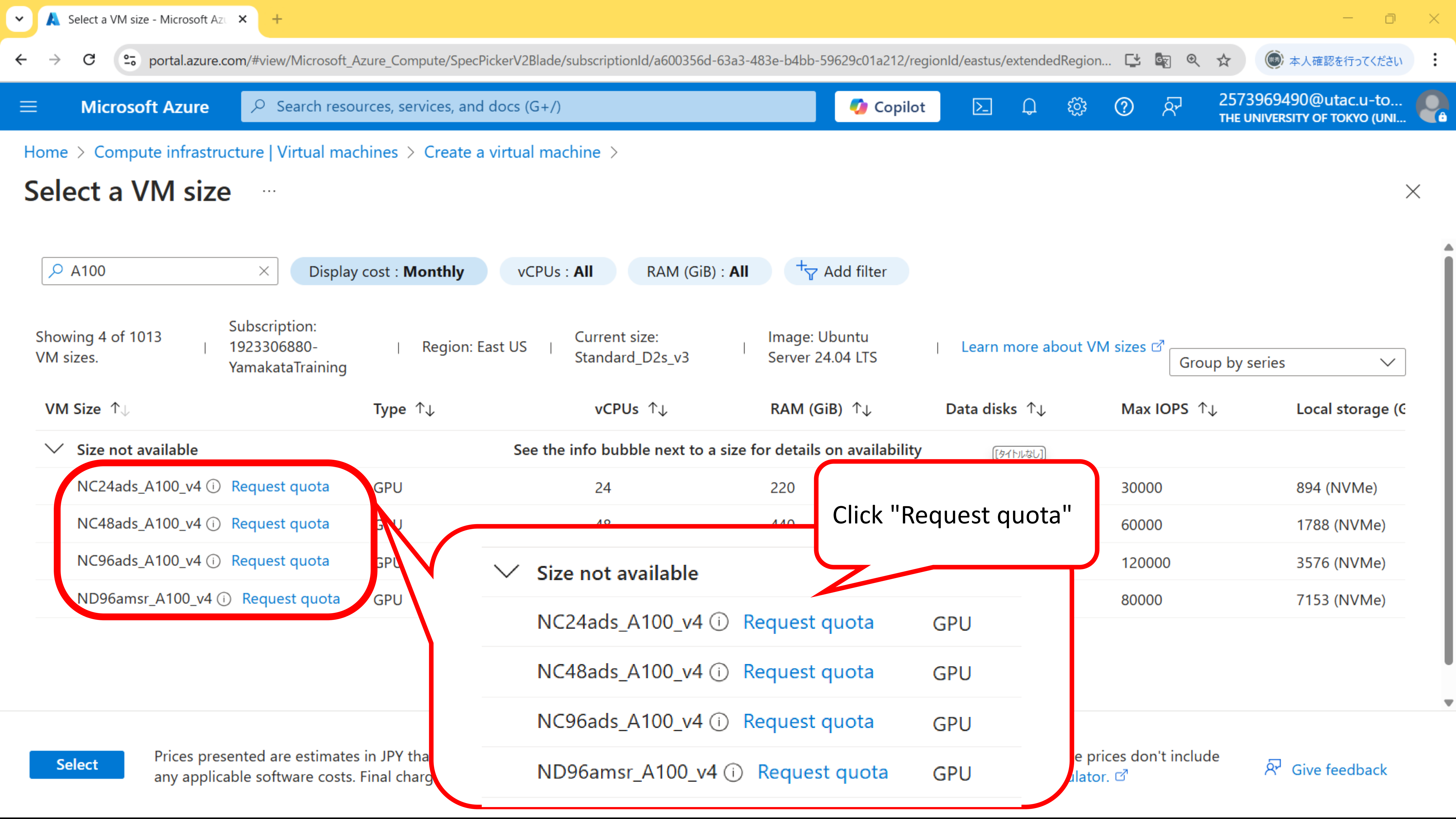
Approval is required for high-cost resources

What is a Quota Request?

When you want to use **expensive resources** like **GPUs** or **a large number of CPUs**, you need **approval from Azure**.

Why is this required?

- To prevent users from **accidentally using excessive resources**, which could lead to **unexpected high charges**
- To ensure **fair resource distribution** so that some users don’t monopolize specific resources
- To **balance server loads** and prevent resource congestion in certain regions


Select a VM size - Microsoft Az
portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus/extendedRegion...
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Microsoft Azure
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2573969490@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

Select a VM size

A100 | Display cost : **Monthly** | vCPUs : **All** | RAM (GiB) : **All** | Add filter

Showing 4 of 1013 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US | Current size: Standard_D2s_v3 | Image: Ubuntu Server 24.04 LTS | Learn more about VM sizes

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Local storage (G
Size not available		See the info bubble next to a size for details on availability				
NC24ads_A100_v4 ⓘ Request quota	GPU	24	220		30000	894 (NVMe)
NC48ads_A100_v4 ⓘ Request quota	GPU	48	440		60000	1788 (NVMe)
NC96ads_A100_v4 ⓘ Request quota	GPU				120000	3576 (NVMe)
ND96amsr_A100_v4 ⓘ Request quota	GPU				80000	7153 (NVMe)

Click "Request quota"

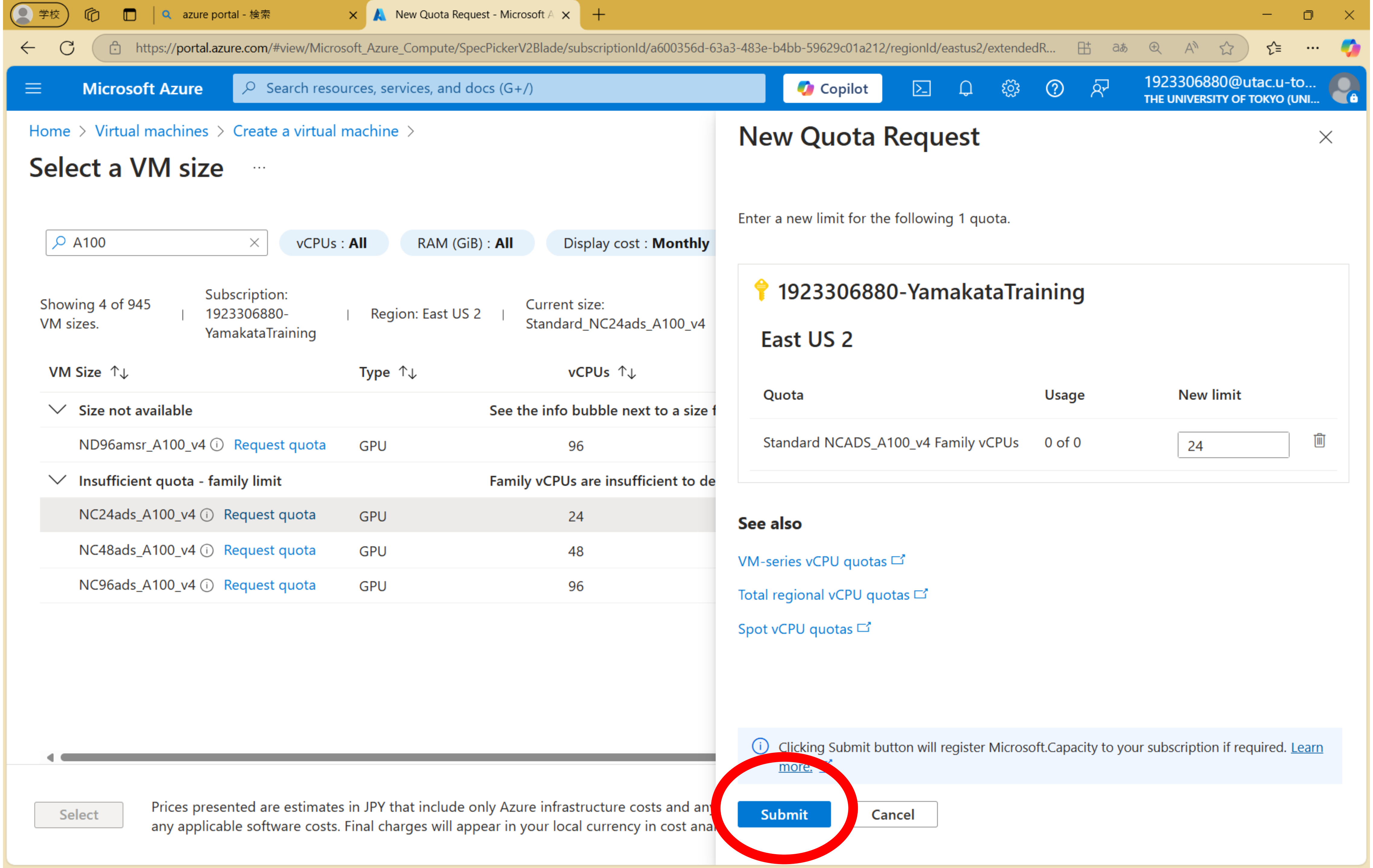
Size not available
NC24ads_A100_v4 ⓘ Request quota GPU
NC48ads_A100_v4 ⓘ Request quota GPU
NC96ads_A100_v4 ⓘ Request quota GPU
ND96amsr_A100_v4 ⓘ Request quota GPU

Select

Prices presented are estimates in JPY tha
any applicable software costs. Final charg

e prices don't include
ulator.

Give feedback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New Quota Request - Microsoft A
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
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THE UNIVERSITY OF TOKYO (UNI...
Home > Virtual machines > Create a virtual machine >

Select a VM size

A100 | vCPUs : **All** | RAM (GiB) : **All** | Display cost : **Monthly**

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4

VM Size	Type	vCPUs
Size not available		See the info bubble next to a size f
ND96amsr_A100_v4 ⓘ Request quota	GPU	96
Insufficient quota - family limit		Family vCPUs are insufficient to de
NC24ads_A100_v4 ⓘ Request quota	GPU	24
NC48ads_A100_v4 ⓘ Request quota	GPU	48
NC96ads_A100_v4 ⓘ Request quota	GPU	96

Select

Prices presented are estimates in JPY that include only Azure infrastructure costs and any any applicable software costs. Final charges will appear in your local currency in cost ana

New Quota Request

Enter a new limit for the following 1 quota.

1923306880-YamakataTraining

East US 2

Quota	Usage	New limit
Standard NCADS_A100_v4 Family vCPUs	0 of 0	24

See also

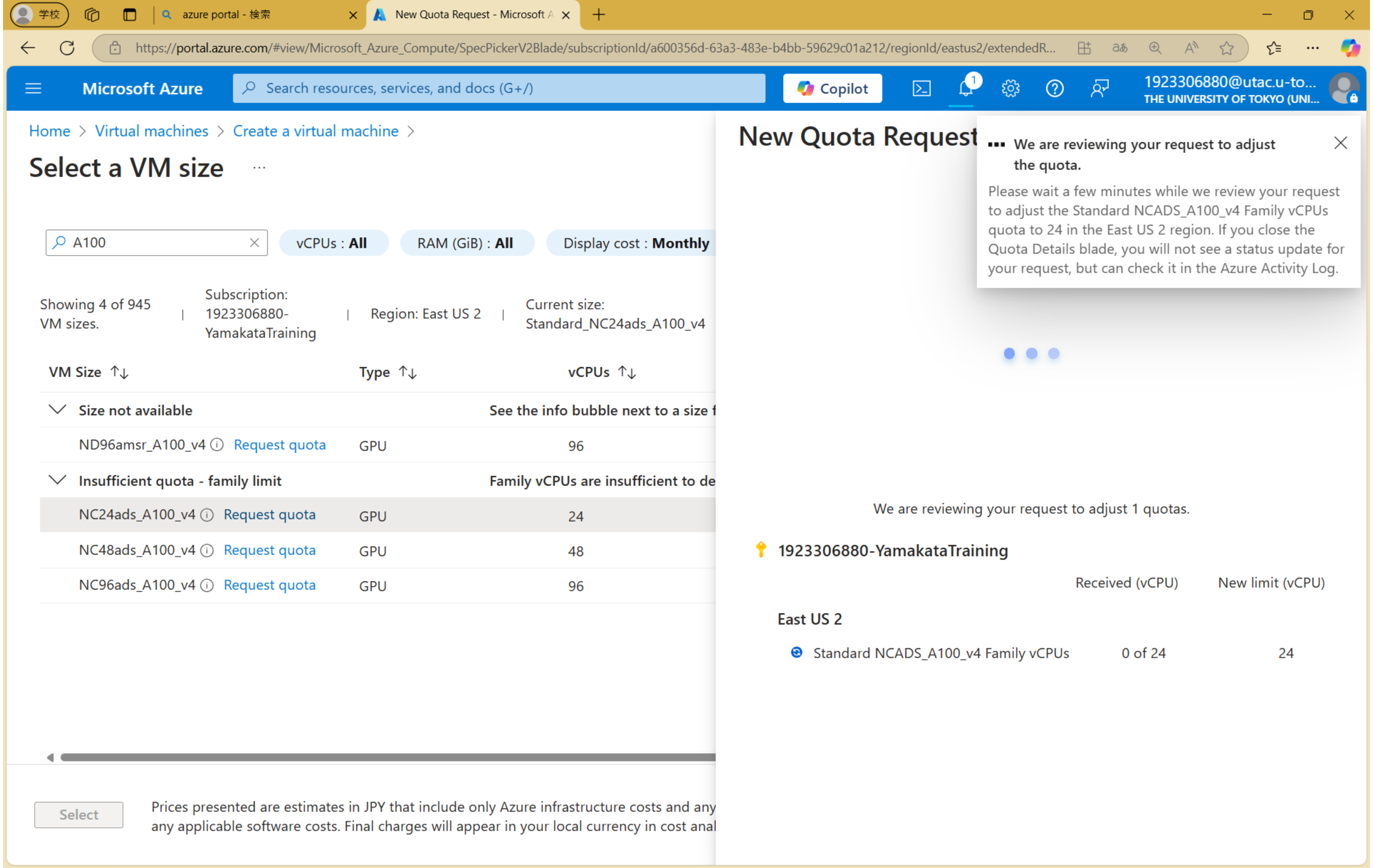
VM-series vCPU quotas

Total regional vCPU quotas

Spot vCPU quotas

ⓘ Clicking Submit button will register Microsoft.Capacity to your subscription if required. Learn more.

Submit
Cancel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New Quota Request - Microsoft A
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
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Home > Virtual machines > Create a virtual machine >

Select a VM size

A100
vCPUs : **All**
RAM (GiB) : **All**
Display cost : **Monthly**

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4

VM Size	Type	vCPUs
Size not available		**See the info bubble next to a size f**
ND96amsr_A100_v4 ⓘ Request quota	GPU	96
Insufficient quota - family limit		**Family vCPUs are insufficient to de**
NC24ads_A100_v4 ⓘ Request quota	GPU	24
NC48ads_A100_v4 ⓘ Request quota	GPU	48
NC96ads_A100_v4 ⓘ Request quota	GPU	96

Prices presented are estimates in JPY that include only Azure infrastructure costs and any any applicable software costs. Final charges will appear in your local currency in cost anal

New Quota Request

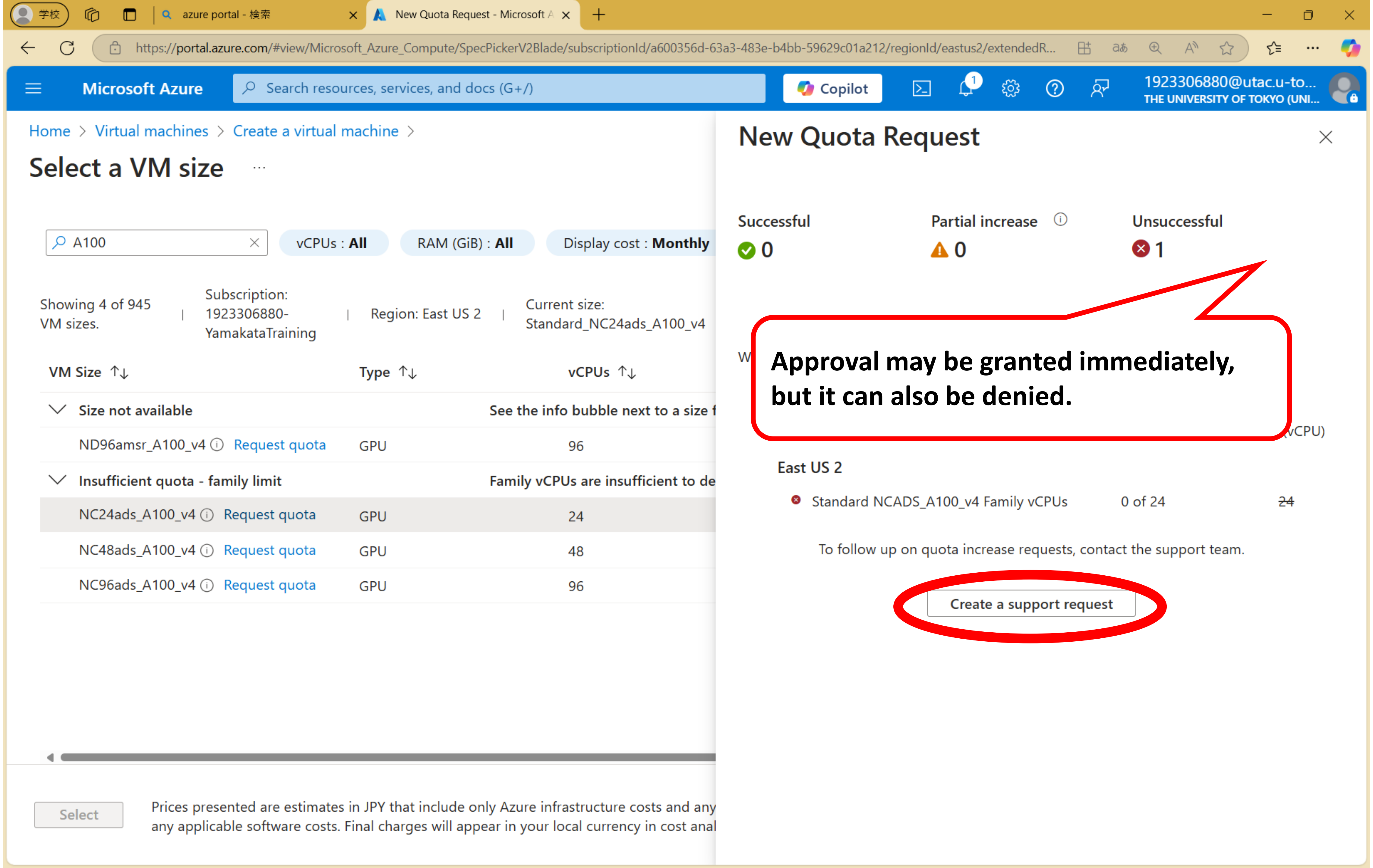
We are reviewing your request to adjust the quota.

Please wait a few minutes while we review your request to adjust the Standard NCADS_A100_v4 Family vCPUs quota to 24 in the East US 2 region. If you close the Quota Details blade, you will not see a status update for your request, but can check it in the Azure Activity Log.

We are reviewing your request to adjust 1 quotas.

1923306880-YamakataTraining

	Received (vCPU)	New limit (vCPU)
East US 2		
Standard NCADS_A100_v4 Family vCPUs	0 of 24	24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New Quota Request - Microsoft A
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
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1923306880@utac.u-to...
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Home > Virtual machines > Create a virtual machine >
A100
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Select

Select a VM size

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4

VM Size ↑↓	Type ↑↓	vCPUs ↑↓
Size not available		See the info bubble next to a size f
ND96amsr_A100_v4 ⓘ Request quota	GPU	96
Insufficient quota - family limit		Family vCPUs are insufficient to de
NC24ads_A100_v4 ⓘ Request quota	GPU	24
NC48ads_A100_v4 ⓘ Request quota	GPU	48
NC96ads_A100_v4 ⓘ Request quota	GPU	96

Prices presented are estimates in JPY that include only Azure infrastructure costs and any any applicable software costs. Final charges will appear in your local currency in cost anal

New Quota Request

Successful	Partial increase ⓘ	Unsuccessful
✓ 0	⚠ 0	✕ 1

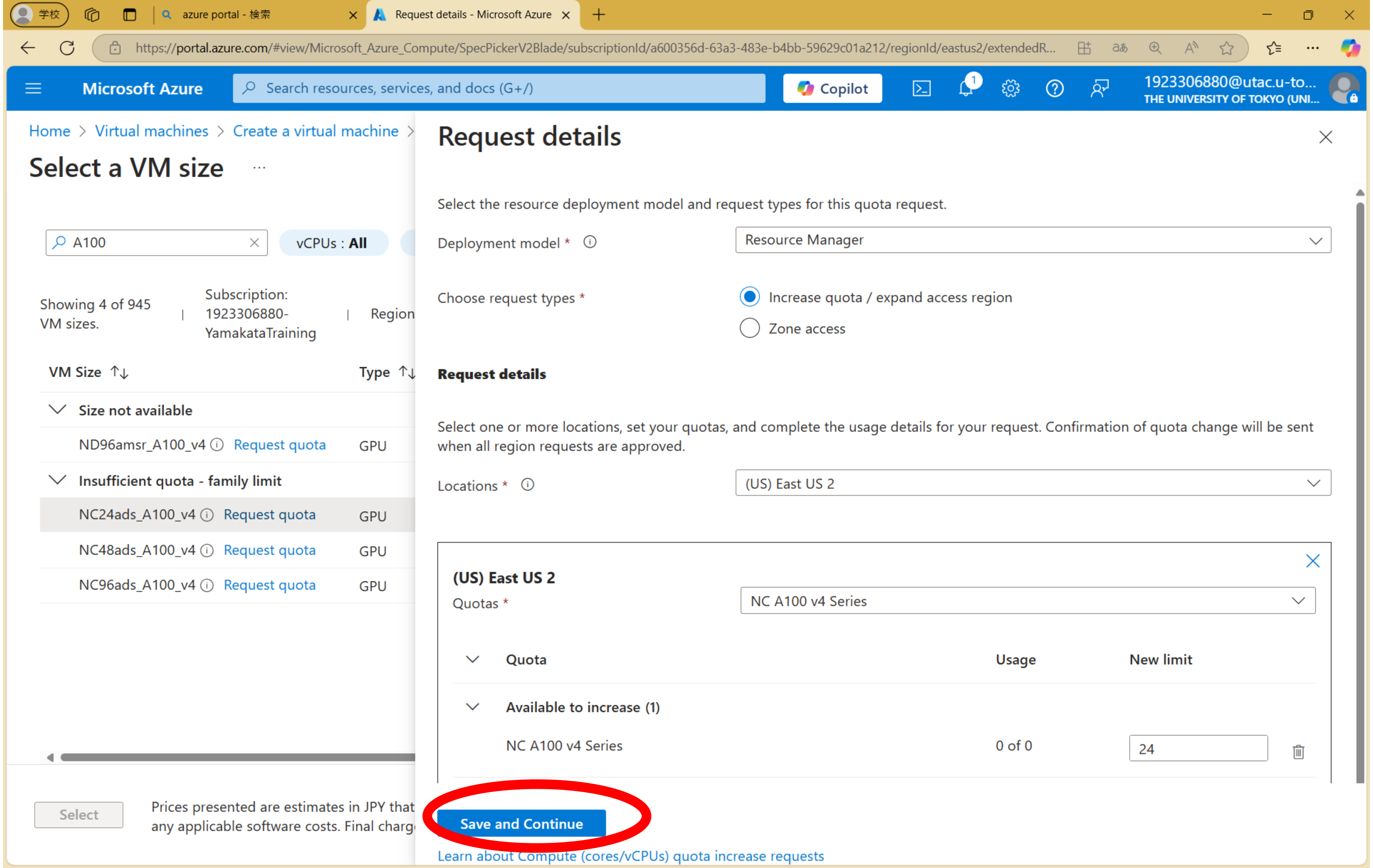
East US 2

✕ Standard NCADS_A100_v4 Family vCPUs	0 of 24	~~24~~

To follow up on quota increase requests, contact the support team.

Create a support request

Approval may be granted immediately, but it can also be denied.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Request details - Microsoft Azure
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
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1923306880@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...
Home > Virtual machines > Create a virtual machine >
Select a VM size
vCPUs : All
Select

A100

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region

VM Size		Type
Size not available		
ND96amsr_A100_v4	Request quota	GPU
Insufficient quota - family limit		
NC24ads_A100_v4	Request quota	GPU
NC48ads_A100_v4	Request quota	GPU
NC96ads_A100_v4	Request quota	GPU

Prices presented are estimates in JPY that any applicable software costs. Final charg

Request details

Select the resource deployment model and request types for this quota request.

Deployment model * : Resource Manager

Choose request types *
● Increase quota / expand access region
○ Zone access

Request details

Select one or more locations, set your quotas, and complete the usage details for your request. Confirmation of quota change will be sent when all region requests are approved.

Locations * : (US) East US 2

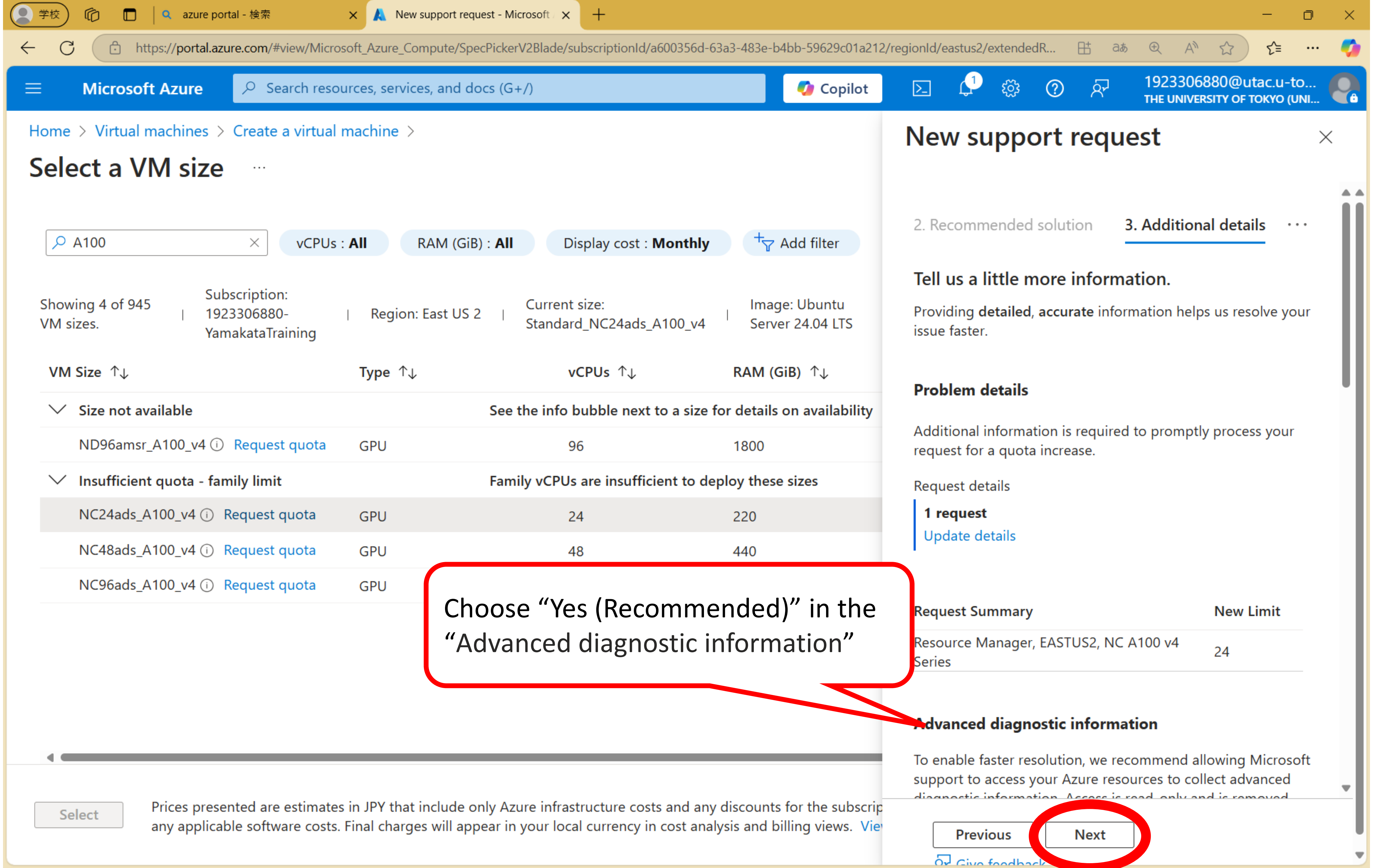
(US) East US 2

Quotas * : NC A100 v4 Series

Quota	Usage	New limit
Available to increase (1)		
NC A100 v4 Series	0 of 0	24

Save and Continue

Learn about Compute (cores/vCPUs) quota increase requests


学校
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New support request - Microsoft
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
1923306880@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...
Home > Virtual machines > Create a virtual machine >
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Add filter
Select
Previous
Next
Give feedback

Select a VM size

A100

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4 | Image: Ubuntu Server 24.04 LTS

VM Size	Type	vCPUs	RAM (GiB)
Size not available	See the info bubble next to a size for details on availability		
ND96amsr_A100_v4 Request quota	GPU	96	1800
Insufficient quota - family limit	Family vCPUs are insufficient to deploy these sizes		
NC24ads_A100_v4 Request quota	GPU	24	220
NC48ads_A100_v4 Request quota	GPU	48	440
NC96ads_A100_v4 Request quota	GPU		

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscrip any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. Vie

New support request

2. Recommended solution　**3. Additional details**

Tell us a little more information.

Providing **detailed**, **accurate** information helps us resolve your issue faster.

Problem details

Additional information is required to promptly process your request for a quota increase.

Request details

1 request

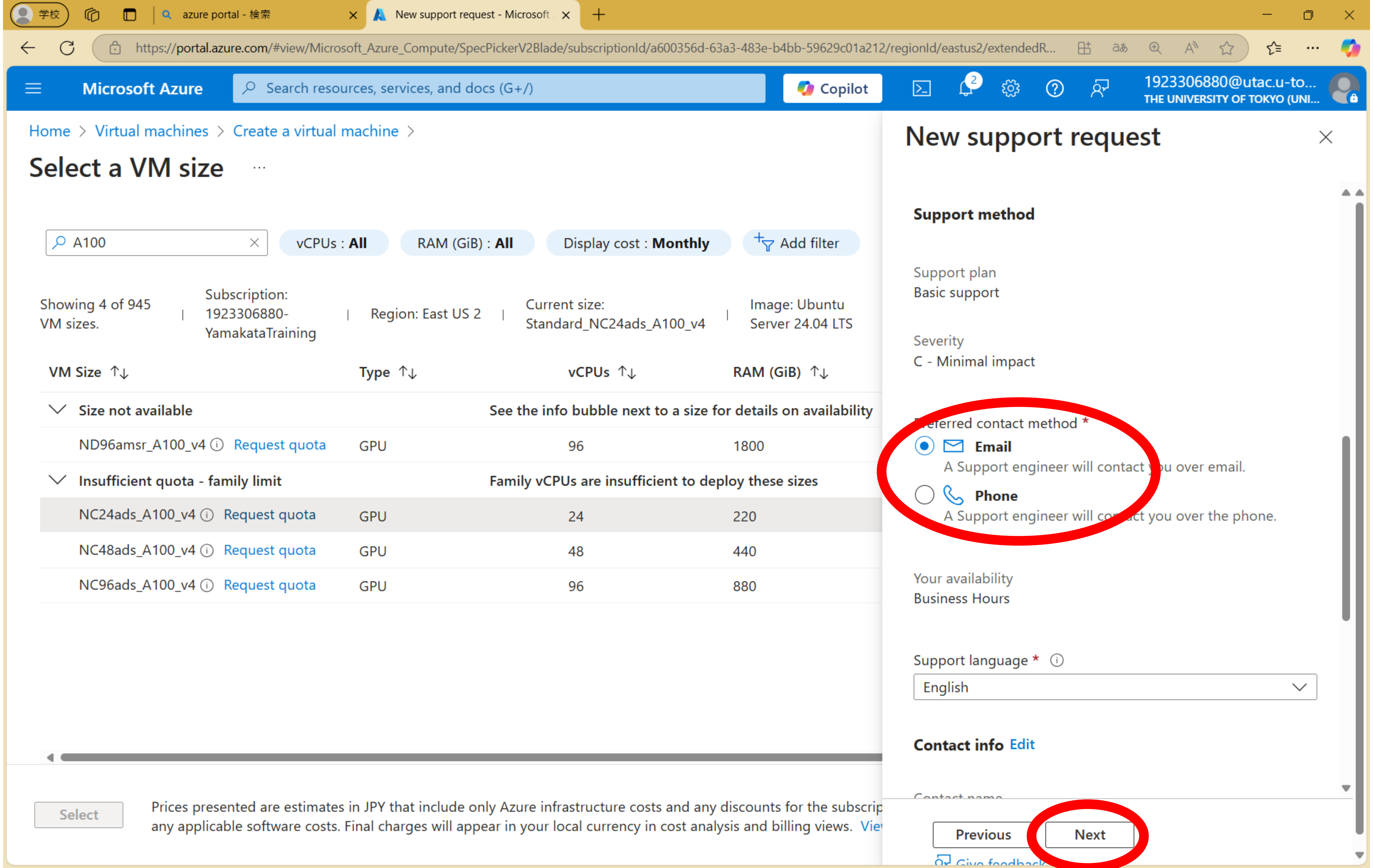
Update details

Request Summary	New Limit
Resource Manager, EASTUS2, NC A100 v4 Series	24

Advanced diagnostic information

To enable faster resolution, we recommend allowing Microsoft support to access your Azure resources to collect advanced

Choose “Yes (Recommended)” in the “Advanced diagnostic information”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https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
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1923306880@utac.u-to...
THE UNIVERSITY OF TOKYO (UNI...
Home > Virtual machines > Create a virtual machine >
A100
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Add filter
Select

Select a VM size

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4 | Image: Ubuntu Server 24.04 LTS

VM Size ↑↓		Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓
Size not available		See the info bubble next to a size for details on availability		
ND96amsr_A100_v4 ⓘ	Request quota	GPU	96	1800
Insufficient quota - family limit		Family vCPUs are insufficient to deploy these sizes		
NC24ads_A100_v4 ⓘ	Request quota	GPU	24	220
NC48ads_A100_v4 ⓘ	Request quota	GPU	48	440
NC96ads_A100_v4 ⓘ	Request quota	GPU	96	880

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscrip any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. Vie

New support request

Support method

Support plan
Basic support

Severity
C - Minimal impact

Preferred contact method *
● **Email**
A Support engineer will contact you over email.
○ **Phone**
A Support engineer will contact you over the phone.

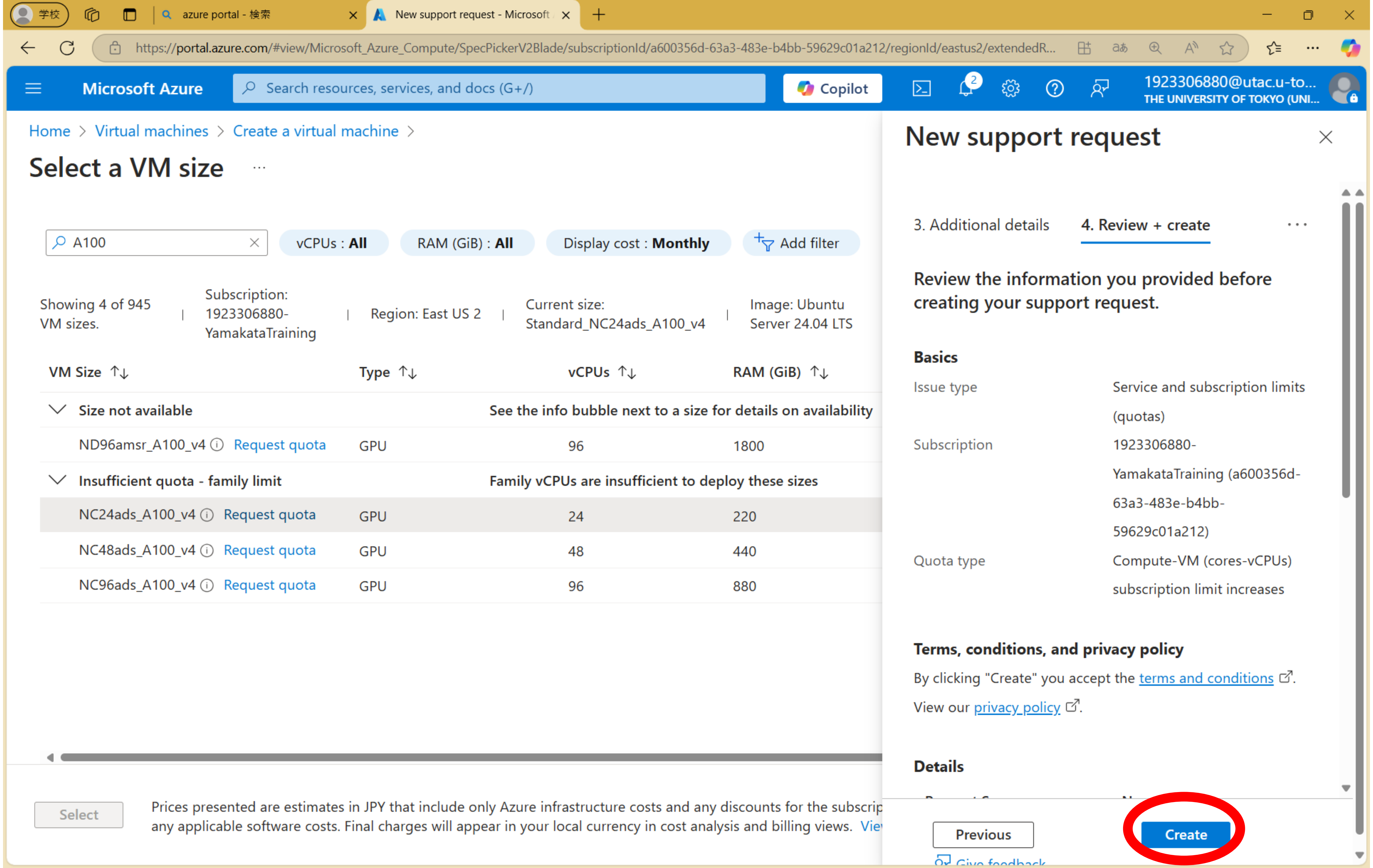
Your availability
Business Hours

Support language * ⓘ
English

Contact info Edit

Contact name

Previous
Next
Give feedback



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New support request - Microsoft
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/eastus2/extendedR...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
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Home > Virtual machines > Create a virtual machine >

Select a VM size

A100

vCPUs : **All**

RAM (GiB) : **All**

Display cost : **Monthly**

Add filter

Showing 4 of 945 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: East US 2 | Current size: Standard_NC24ads_A100_v4 | Image: Ubuntu Server 24.04 LTS

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓
Size not available	**See the info bubble next to a size for details on availability**		
ND96amsr_A100_v4 ⓘ Request quota	GPU	96	1800
Insufficient quota - family limit	**Family vCPUs are insufficient to deploy these sizes**		
NC24ads_A100_v4 ⓘ Request quota	GPU	24	220
NC48ads_A100_v4 ⓘ Request quota	GPU	48	440
NC96ads_A100_v4 ⓘ Request quota	GPU	96	880

Select

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscrip
any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. Vie

New support request

3. Additional details   4. Review + create

Review the information you provided before creating your support request.

Basics

Issue type	Service and subscription limits (quotas)
Subscription	1923306880-YamakataTraining (a600356d-63a3-483e-b4bb-59629c01a212)
Quota type	Compute-VM (cores-vCPUs) subscription limit increases

Terms, conditions, and privacy policy

By clicking "Create" you accept the terms and conditions.

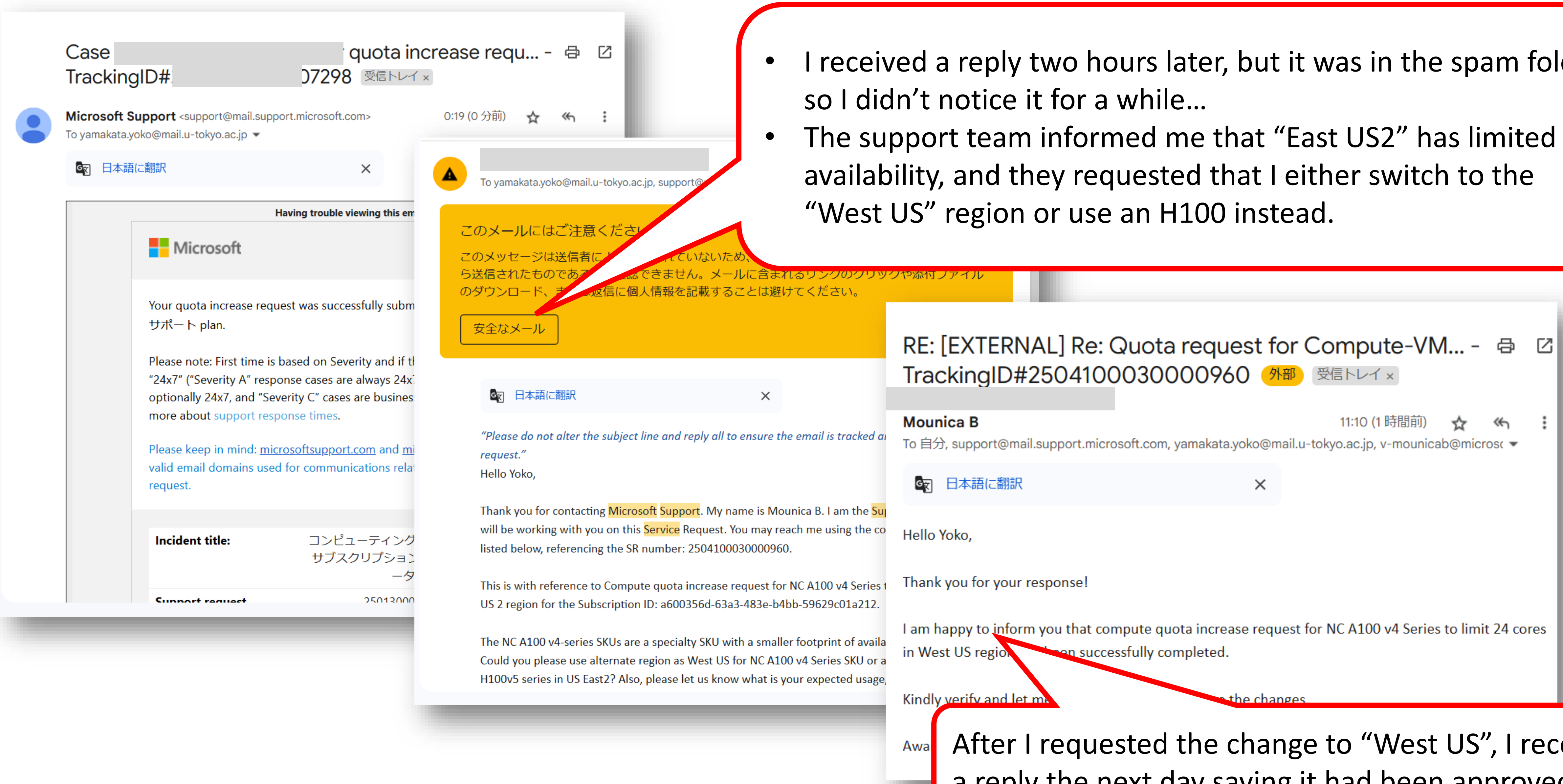
View our privacy policy.

Details

Previous   Create

Give feedback

Quota approval is notified by email



Case [redacted] quota increase requ... - TrackingID#[redacted]07298

Microsoft Support <support@mail.support.microsoft.com>

To yamakata.yoko@mail.u-tokyo.ac.jp

0:19 (0 分前)

Having trouble viewing this em

Microsoft

Your quota increase request was successfully subm
サポート plan.

Please note: First time is based on Severity and if t
"24x7" ("Severity A" response cases are always 24x
optionally 24x7, and "Severity C" cases are busines
more about support response times.

Please keep in mind: microsoftsupport.com and mi
valid email domains used for communications rela
request.

Incident title: コンピューティング サブスクリプション ータ

Support request 25013000

[redacted]

To yamakata.yoko@mail.u-tokyo.ac.jp, support@

このメールにはご注意くださ

このメッセージは送信者に　れていないため、
ら送信されたものである　認できません。メールに含まれるリンクのクリックや添付ファイル
のダウンロード、ま　返信に個人情報を記載することは避けてください。

*"Please do not alter the subject line and reply all to ensure the email is tracked a
request."*

Hello Yoko,

Thank you for contacting Microsoft Support. My name is Mounica B. I am the Su
will be working with you on this Service Request. You may reach me using the co
listed below, referencing the SR number: 2504100030000960.

This is with reference to Compute quota increase request for NC A100 v4 Series t
US 2 region for the Subscription ID: a600356d-63a3-483e-b4bb-59629c01a212.

The NC A100 v4-series SKUs are a specialty SKU with a smaller footprint of availa
Could you please use alternate region as West US for NC A100 v4 Series SKU or a
H100v5 series in US East2? Also, please let us know what is your expected usage,

RE: [EXTERNAL] Re: Quota request for Compute-VM... - TrackingID#2504100030000960

[redacted]

Mounica B

11:10 (1 時間前)

To 自分, support@mail.support.microsoft.com, yamakata.yoko@mail.u-tokyo.ac.jp, v-mounicab@microsc

Hello Yoko,

Thank you for your response!

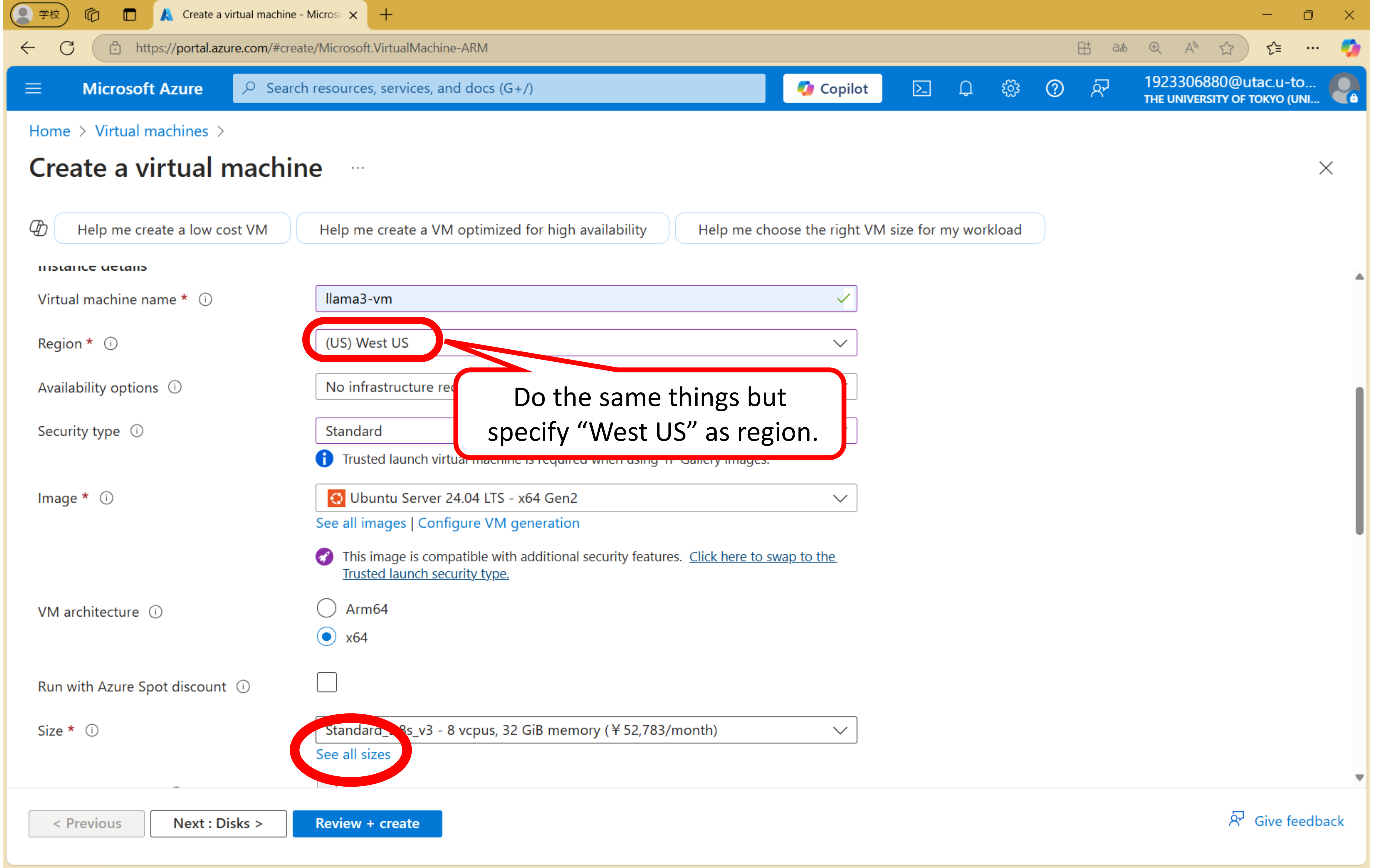
I am happy to inform you that compute quota increase request for NC A100 v4 Series to limit 24 cores
in West US regio en successfully completed.

Kindly verify and let me the changes.

Awa

- I received a reply two hours later, but it was in the spam folder, so I didn't notice it for a while…
- The support team informed me that "East US2" has limited SKU availability, and they requested that I either switch to the "West US" region or use an H100 instead.

After I requested the change to "West US", I received a reply the next day saying it had been approved.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https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
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Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
< Previous
Next : Disks >
Review + create
Give feedback

Create a virtual machine

Instance details

Virtual machine name * llama3-vm

Region * (US) West US

Availability options No infrastructure re

Security type Standard

Trusted launch virtual machine is required when using ... Gallery images.

Image * Ubuntu Server 24.04 LTS - x64 Gen2

See all images | Configure VM generation

This image is compatible with additional security features. Click here to swap to the Trusted launch security type.

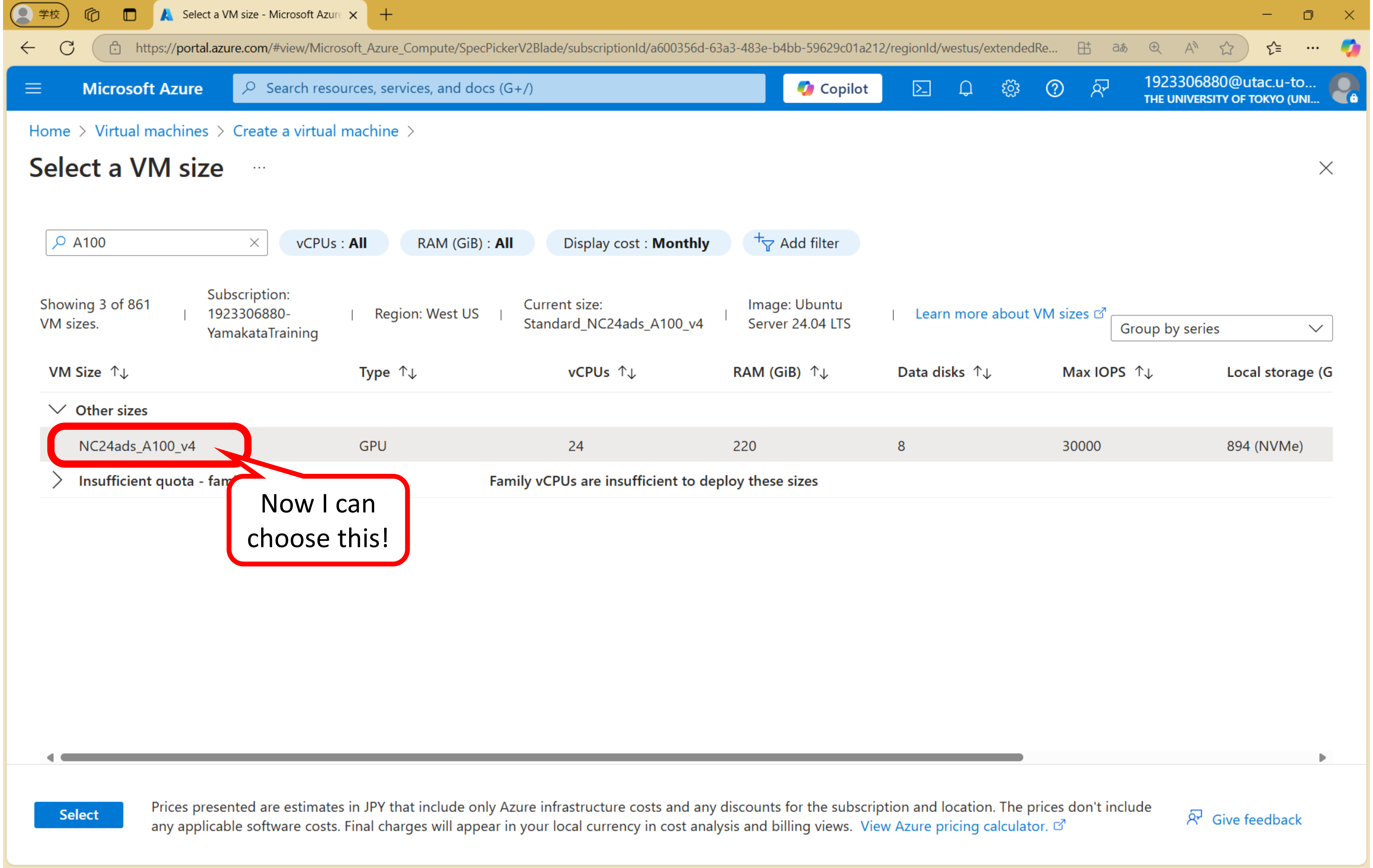
VM architecture ○ Arm64 ● x64

Run with Azure Spot discount ☐

Size * Standard_ 8s_v3 - 8 vcpus, 32 GiB memory (￥52,783/month)

See all sizes

Do the same things but specify “West US” as region.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Select a VM size - Microsoft Azure
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/westus/extendedRe...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
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THE UNIVERSITY OF TOKYO (UNI...
Home > Virtual machines > Create a virtual machine >
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Add filter
Learn more about VM sizes
Group by series
Select
View Azure pricing calculator.
Give feedback

Select a VM size

A100

Showing 3 of 861 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: West US | Current size: Standard_NC24ads_A100_v4 | Image: Ubuntu Server 24.04 LTS

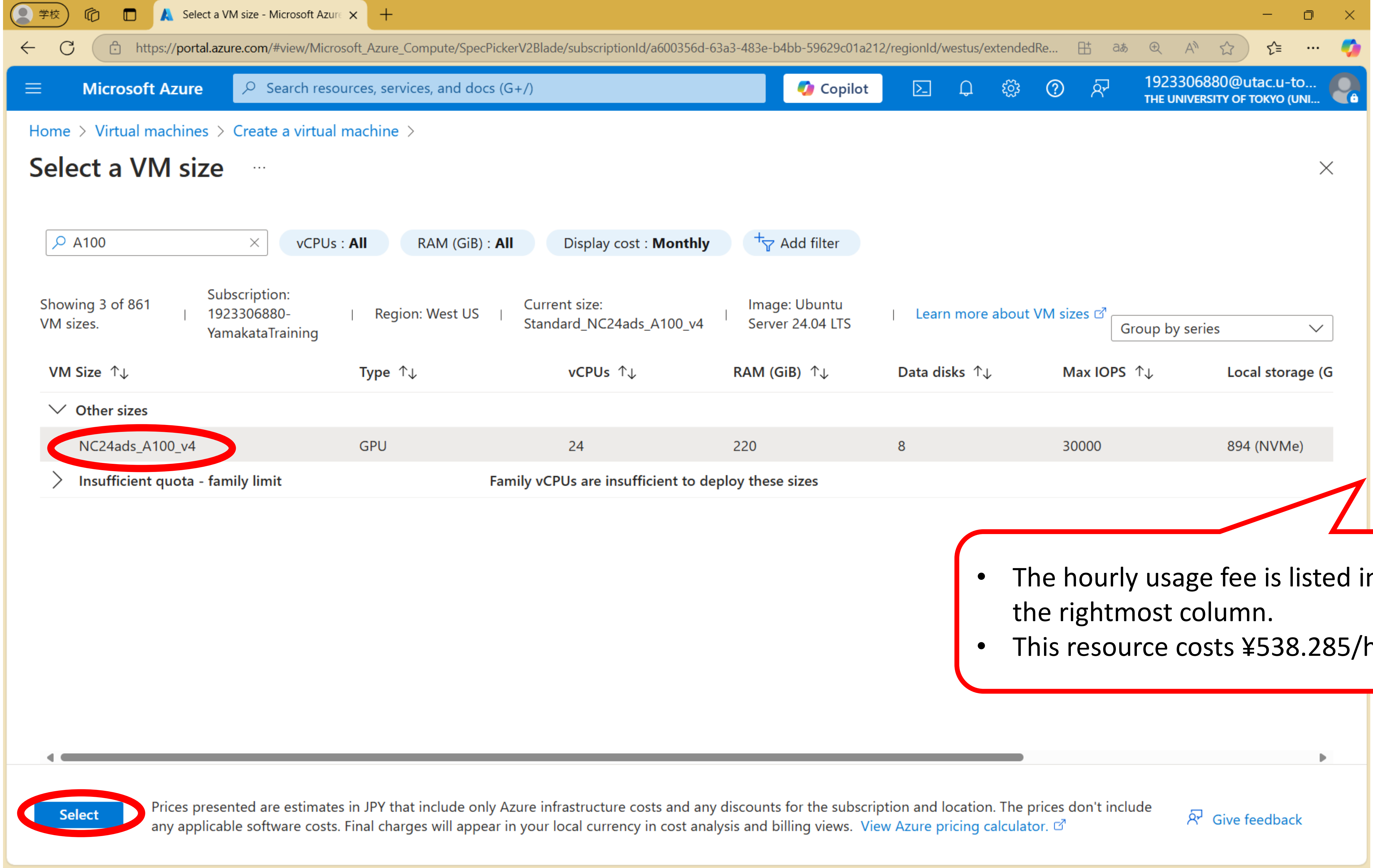
VM Size	Type	vCPUs	RAM (GiB)	Data disks	Max IOPS	Local storage (G
Other sizes						
NC24ads_A100_v4	GPU	24	220	8	30000	894 (NVMe)
Insufficient quota - fam		Family vCPUs are insufficient to deploy these sizes				

Now I can choose this!

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

2.2 Create a VM using the approved resources

Start a NC_A100_v4-sized virtual machine consisting of one GPU card (NVIDIA A100) and 24 vCPUs



学校
Select a VM size - Microsoft Azure
https://portal.azure.com/#view/Microsoft_Azure_Compute/SpecPickerV2Blade/subscriptionId/a600356d-63a3-483e-b4bb-59629c01a212/regionId/westus/extendedRe...
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
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THE UNIVERSITY OF TOKYO (UNI...

Home > Virtual machines > Create a virtual machine >

Select a VM size

A100 | vCPUs : **All** | RAM (GiB) : **All** | Display cost : **Monthly** | Add filter

Showing 3 of 861 VM sizes. | Subscription: 1923306880-YamakataTraining | Region: West US | Current size: Standard_NC24ads_A100_v4 | Image: Ubuntu Server 24.04 LTS | Learn more about VM sizes

Group by series

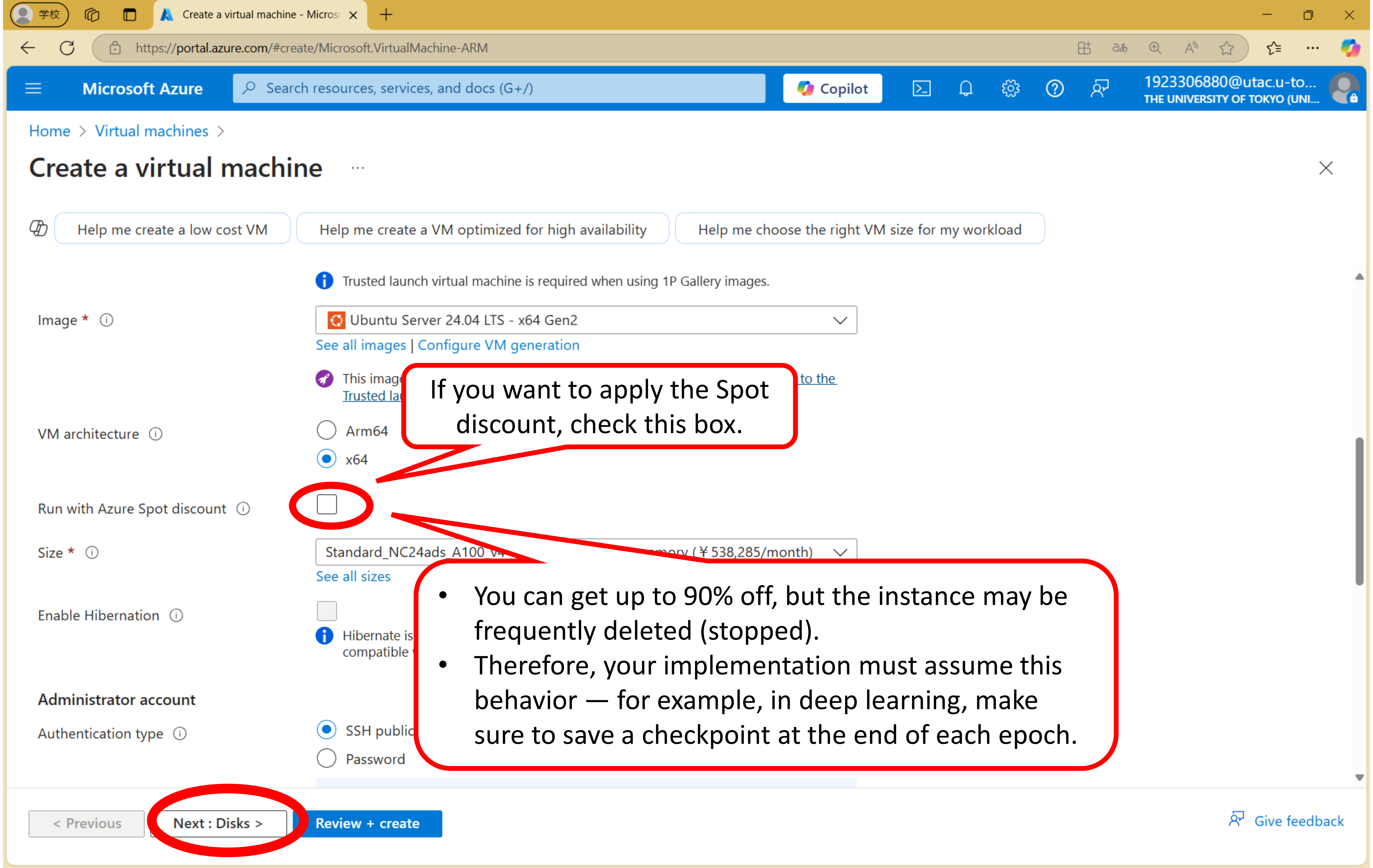
VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Local storage (G
Other sizes						
NC24ads_A100_v4	GPU	24	220	8	30000	894 (NVMe)
Insufficient quota - family limit	**Family vCPUs are insufficient to deploy these sizes**					

Select

Prices presented are estimates in JPY that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

Give feedback

- The hourly usage fee is listed in the rightmost column.
- This resource costs ¥538.285/h.



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Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Give feedback

Create a virtual machine

Trusted launch virtual machine is required when using 1P Gallery images.

Image * : Ubuntu Server 24.04 LTS - x64 Gen2

See all images | Configure VM generation

This imag… to the Trusted la…

VM architecture: ○ Arm64 ● x64

Run with Azure Spot discount: ☐

Size * : Standard_NC24ads_A100_v4 … mory (￥538,285/month)

See all sizes

Enable Hibernation: ☐

Hibernate is … compatible …

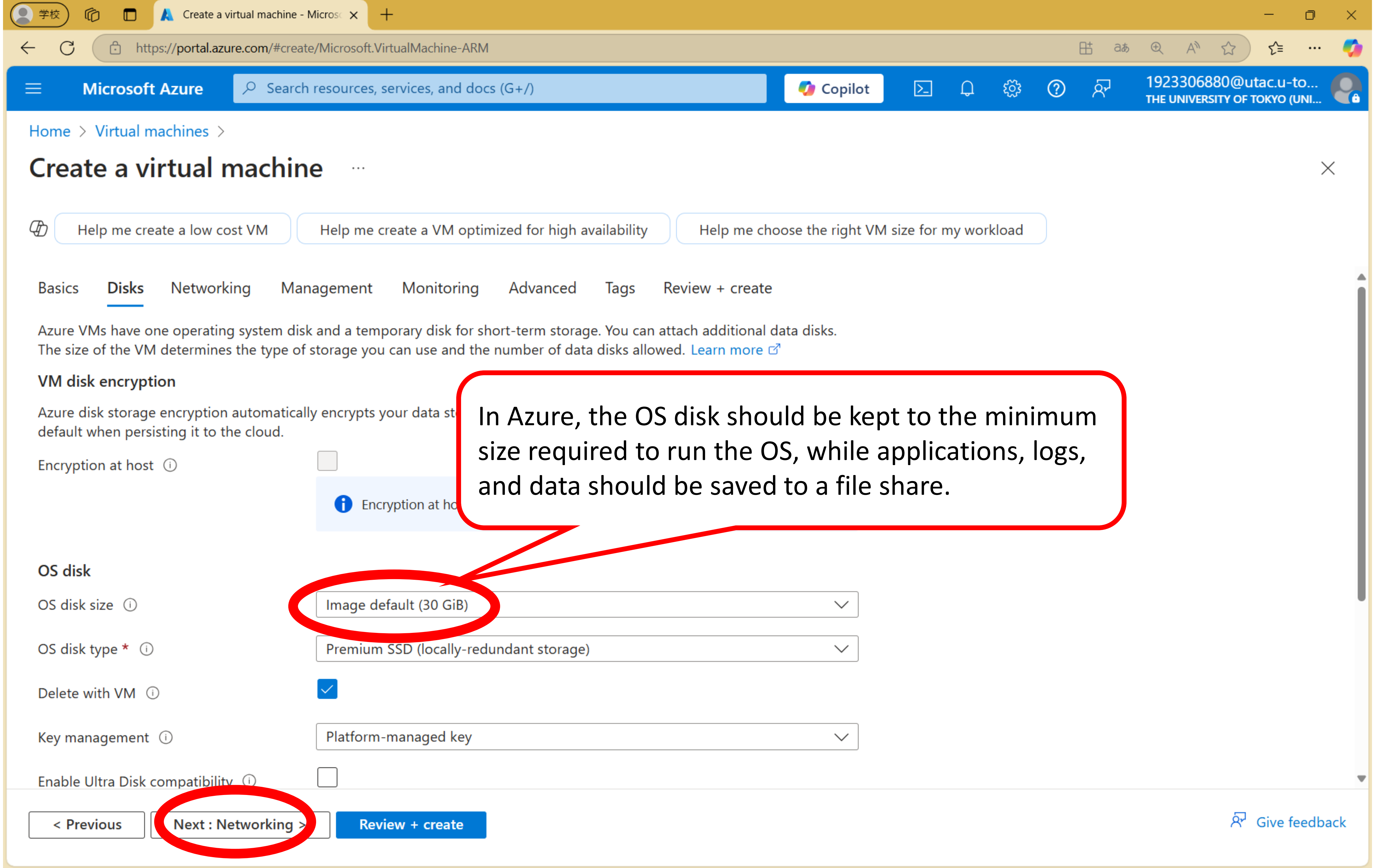
Administrator account

Authentication type: ● SSH public… ○ Password

< Previous | Next : Disks > | Review + create

If you want to apply the Spot discount, check this box.

- You can get up to 90% off, but the instance may be frequently deleted (stopped).
- Therefore, your implementation must assume this behavior — for example, in deep learning, make sure to save a checkpoint at the end of each epoch.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Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
< Previous
Next : Networking >
Review + create
Give feedback

Create a virtual machine

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more

VM disk encryption

Azure disk storage encryption automatically encrypts your data st default when persisting it to the cloud.

Encryption at host ☐

Encryption at ho

OS disk

OS disk size: Image default (30 GiB)

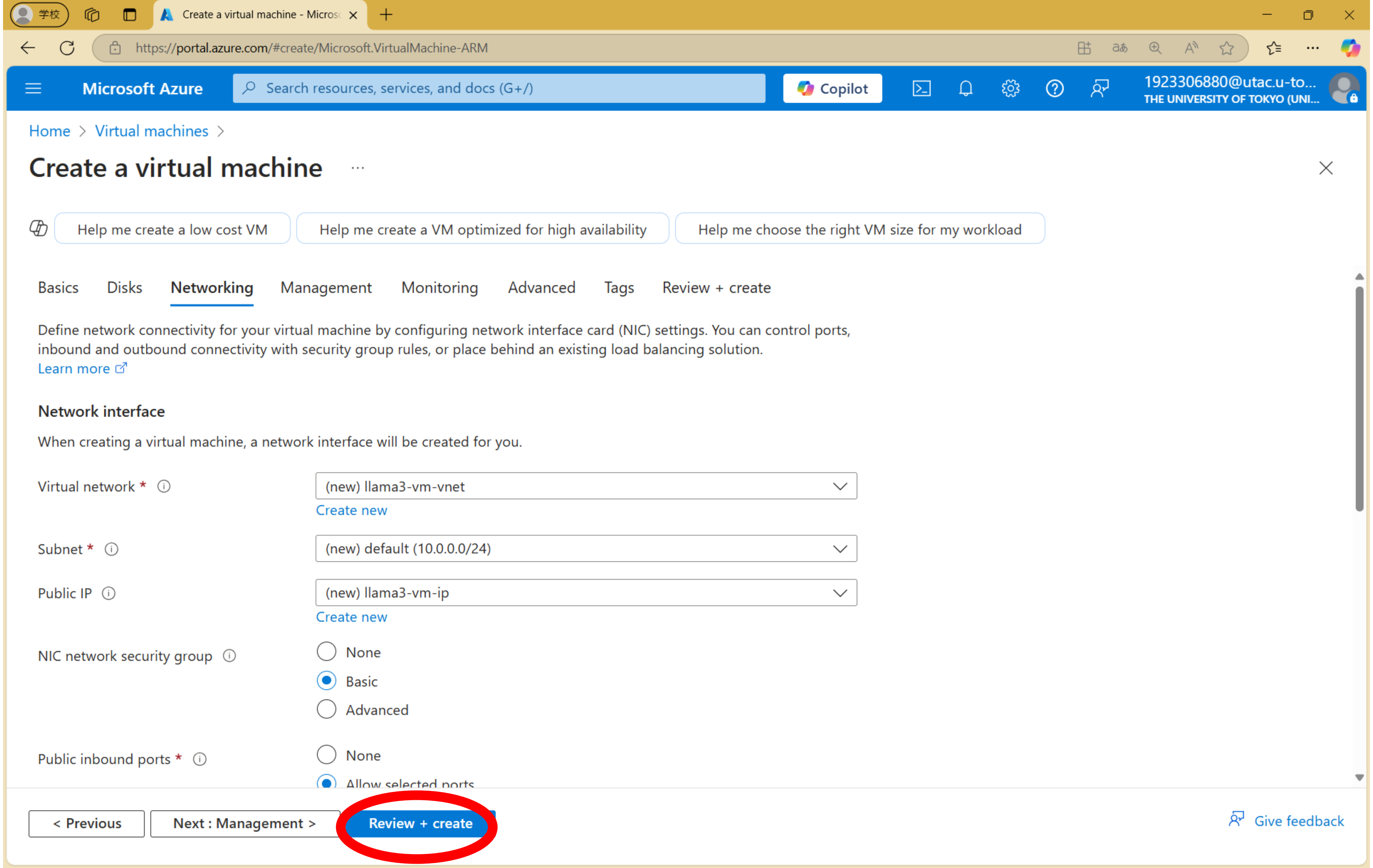
OS disk type *: Premium SSD (locally-redundant storage)

Delete with VM ☑

Key management: Platform-managed key

Enable Ultra Disk compatibility ☐

In Azure, the OS disk should be kept to the minimum size required to run the OS, while applications, logs, and data should be saved to a file share.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Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Learn more
Create new
Create new
< Previous
Next : Management >
Review + create
Give feedback

Create a virtual machine

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

Network interface

When creating a virtual machine, a network interface will be created for you.

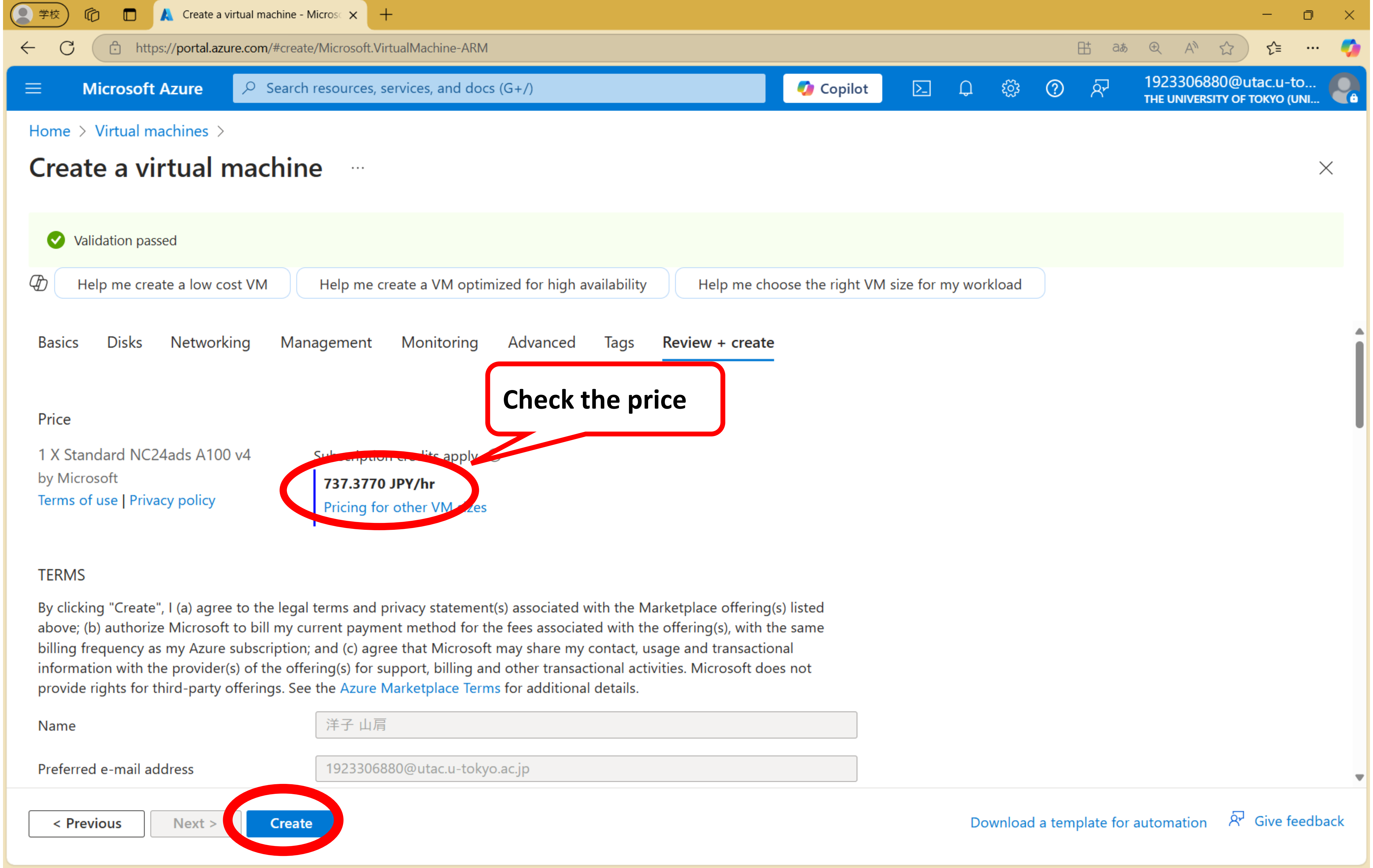
Virtual network * : (new) llama3-vm-vnet

Subnet * : (new) default (10.0.0.0/24)

Public IP : (new) llama3-vm-ip

NIC network security group:
○ None
● Basic
○ Advanced

Public inbound ports *:
○ None
● Allow selected ports



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Create a virtual machine

Validation passed

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Basics
Disks
Networking
Management
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Tags
Review + create

Check the price

Price

1 X Standard NC24ads A100 v4
by Microsoft
Terms of use | Privacy policy

Subscription credits apply
737.3770 JPY/hr
Pricing for other VM sizes

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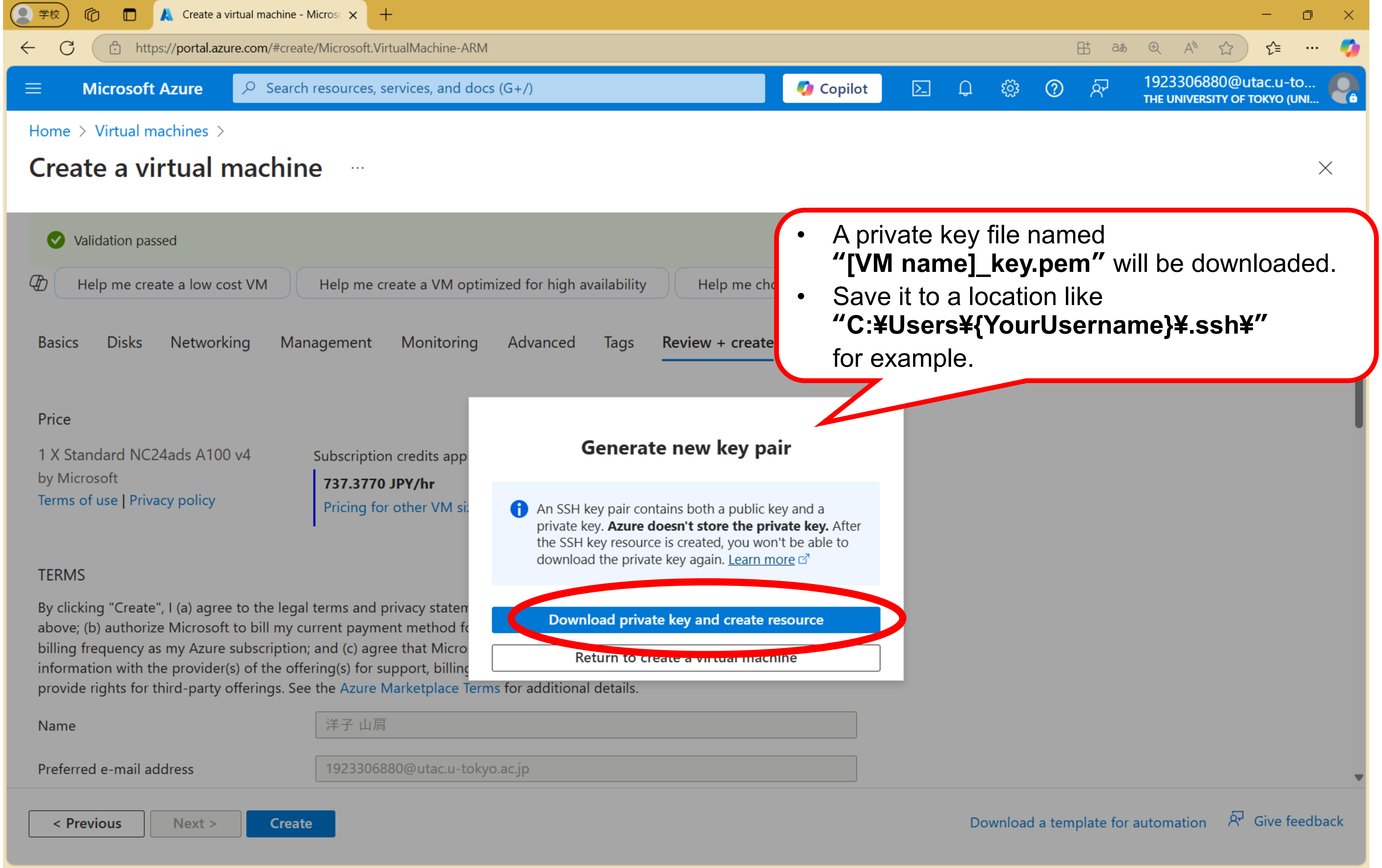
Preferred e-mail address: 1923306880@utac.u-tokyo.ac.jp

< Previous
Next >
Create
Download a template for automation
Give feedback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Help me create a low cost VM
Help me create a VM optimized for high availability
Help me ch
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Download private key and create resource
Return to create a virtual machine
< Previous
Next >
Create
Download a template for automation
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Create a virtual machine

Validation passed

Price

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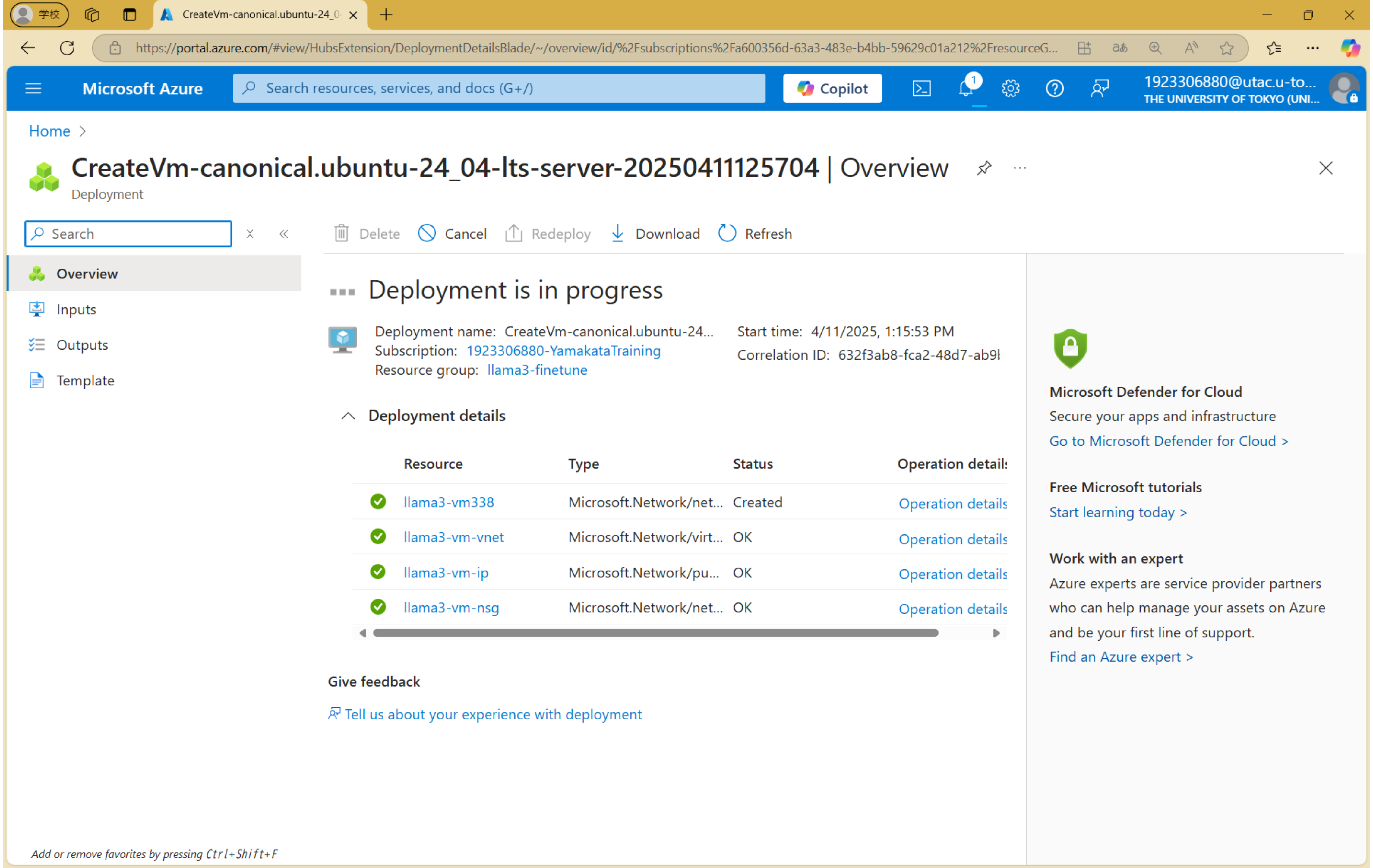
Name: 洋子 山肩

Preferred e-mail address: 1923306880@utac.u-tokyo.ac.jp

Generate new key pair

An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. Learn more

- A private key file named **"[VM name]_key.pem"** will be downloaded.
- Save it to a location like **"C:¥Users¥{YourUsername}¥.ssh¥"** for example.


CreateVm-canonical.ubuntu-24_0
https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fa600356d-63a3-483e-b4bb-59629c01a212%2FResourceG...
Microsoft Azure
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Home
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh

CreateVm-canonical.ubuntu-24_04-lts-server-20250411125704 | Overview

Deployment

Deployment is in progress

Deployment name: CreateVm-canonical.ubuntu-24...
Subscription: 1923306880-YamakataTraining
Resource group: llama3-finetune
Start time: 4/11/2025, 1:15:53 PM
Correlation ID: 632f3ab8-fca2-48d7-ab9l

Deployment details

	Resource	Type	Status	Operation detail:
✓	llama3-vm338	Microsoft.Network/net...	Created	Operation details
✓	llama3-vm-vnet	Microsoft.Network/virt...	OK	Operation details
✓	llama3-vm-ip	Microsoft.Network/pu...	OK	Operation details
✓	llama3-vm-nsg	Microsoft.Network/net...	OK	Operation details

Give feedback

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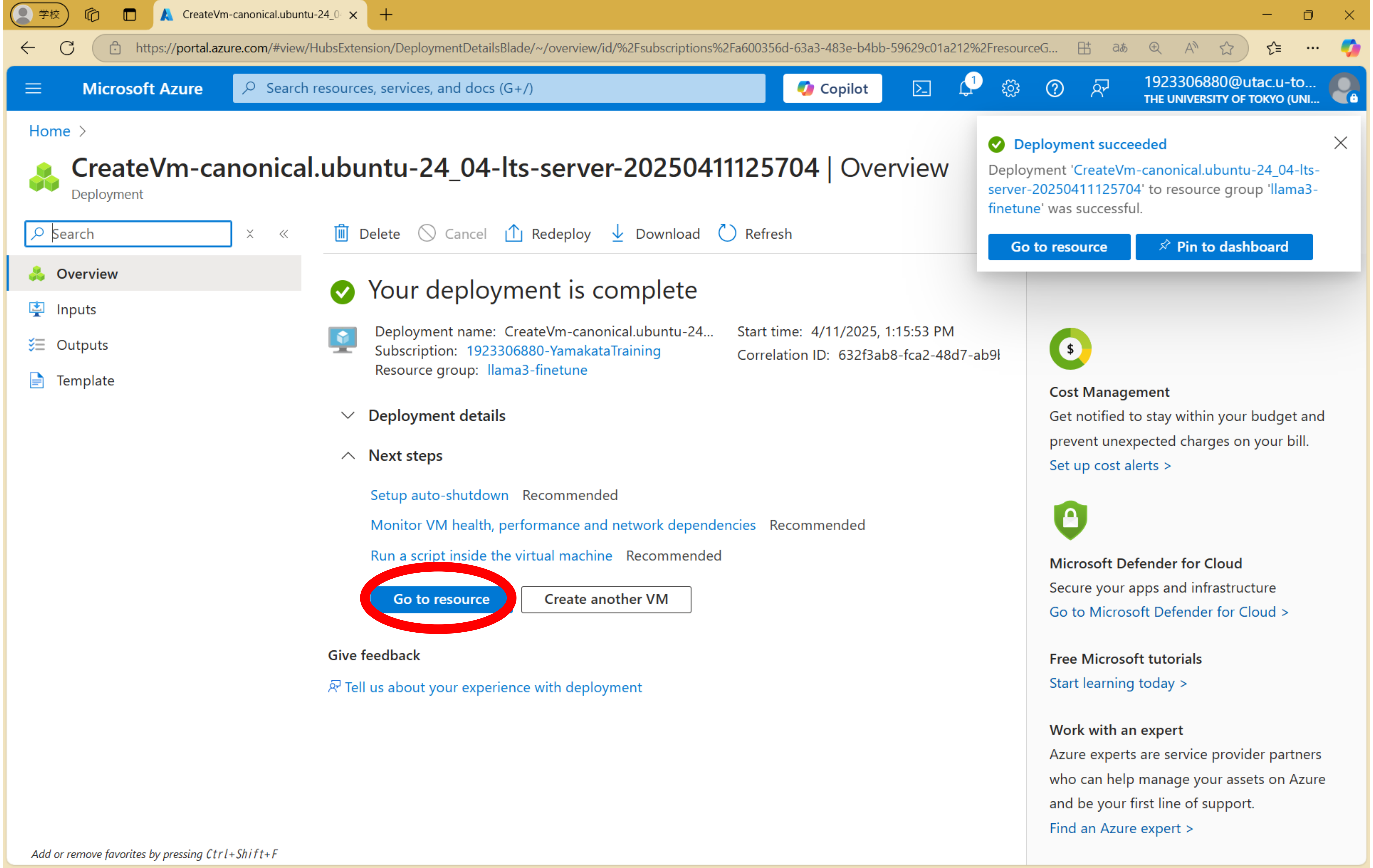
CreateVm-canonical.ubuntu-24_0
https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fa600356d-63a3-483e-b4bb-59629c01a212%2FresourceG...
Microsoft Azure
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Home
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment details
Next steps
Go to resource
Create another VM
Go to resource
Pin to dashboard

CreateVm-canonical.ubuntu-24_04-lts-server-20250411125704 | Overview

Deployment

Deployment succeeded

Deployment 'CreateVm-canonical.ubuntu-24_04-lts-server-20250411125704' to resource group 'llama3-finetune' was successful.

Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24...
Subscription: 1923306880-YamakataTraining
Resource group: llama3-finetune
Start time: 4/11/2025, 1:15:53 PM
Correlation ID: 632f3ab8-fca2-48d7-ab9l

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Give feedback

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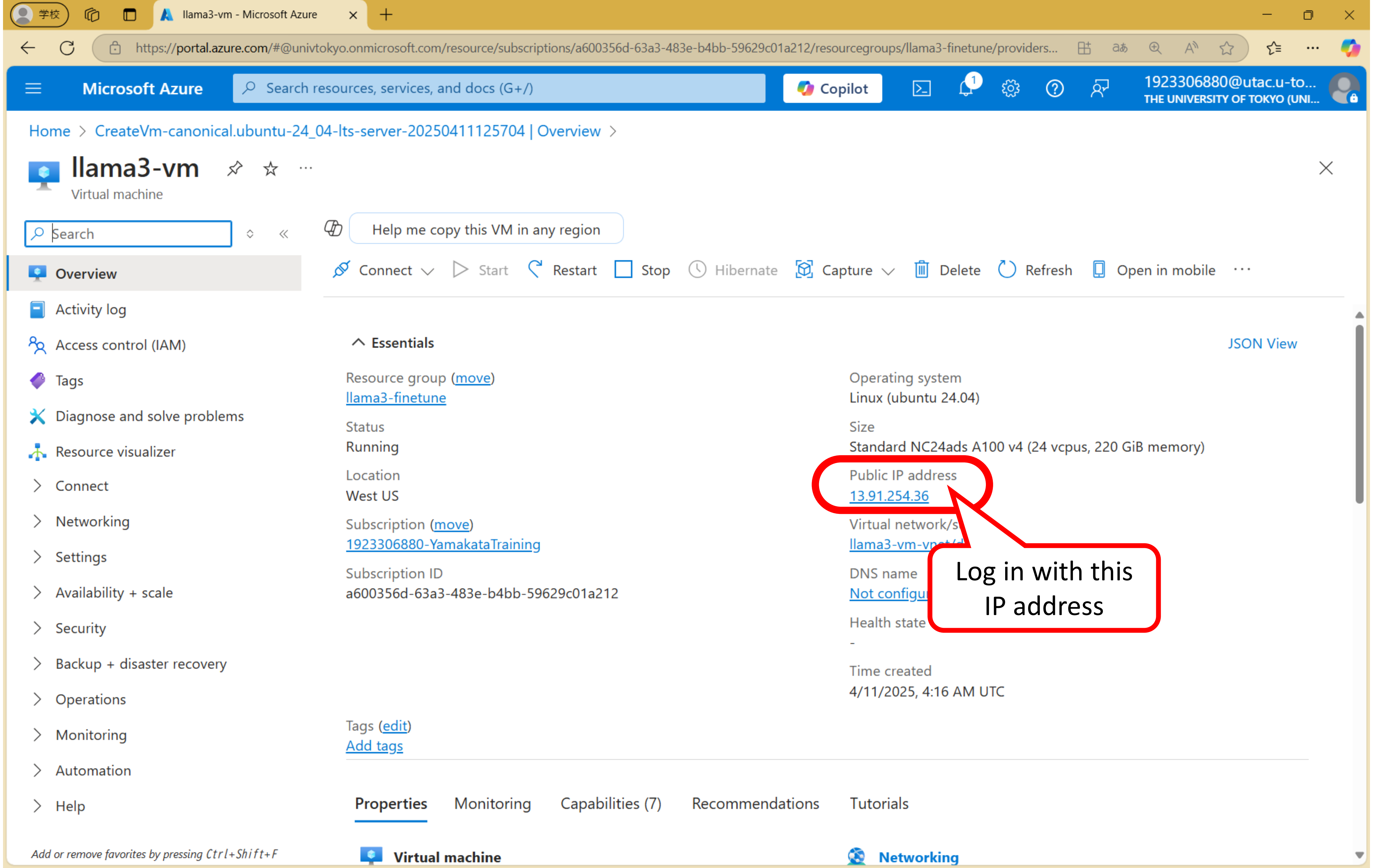
llama3-vm - Microsoft Azure
https://portal.azure.com/#@univtokyo.onmicrosoft.com/resource/subscriptions/a600356d-63a3-483e-b4bb-59629c01a212/resourcegroups/llama3-finetune/providers...
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Home > CreateVm-canonical.ubuntu-24_04-lts-server-20250411125704 | Overview >
llama3-vm
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Add or remove favorites by pressing Ctrl+Shift+F
Help me copy this VM in any region
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Essentials
JSON View
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Networking

Resource group (move)
llama3-finetune

Status
Running

Location
West US

Subscription (move)
1923306880-YamakataTraining

Subscription ID
a600356d-63a3-483e-b4bb-59629c01a212

Operating system
Linux (ubuntu 24.04)

Size
Standard NC24ads A100 v4 (24 vcpus, 220 GiB memory)

Public IP address
13.91.254.36

Virtual network/s
llama3-vm-vn

DNS name
Not configu

Health state
-

Time created
4/11/2025, 4:16 AM UTC

Tags (edit)
Add tags

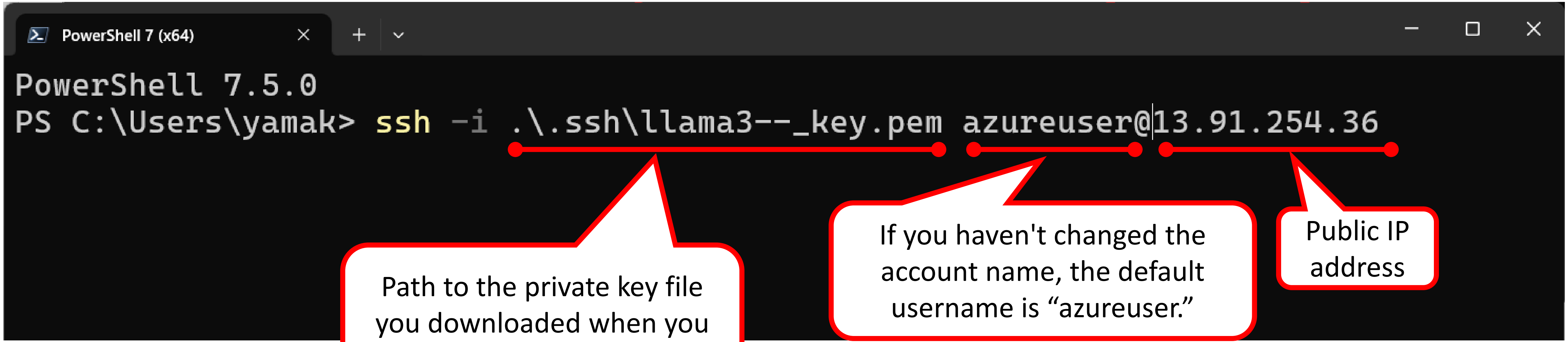
Log in with this IP address

3. Log in to the VM from your local computer

PowerShell for Windows and Terminal for MacOS.

Windows PowerShellでログイン

ssh -i .¥.ssh¥[virtual machine name]_key.pem azureuser@ [public IP address]

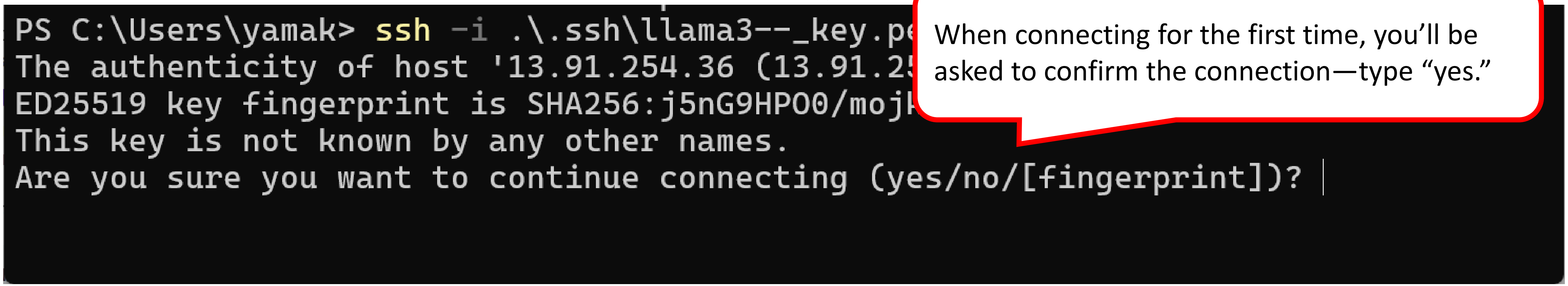


```
PowerShell 7.5.0
PS C:\Users\yamak> ssh -i .\.ssh\llama3--_key.pem azureuser@13.91.254.36
```

Path to the private key file you downloaded when you created the VM.

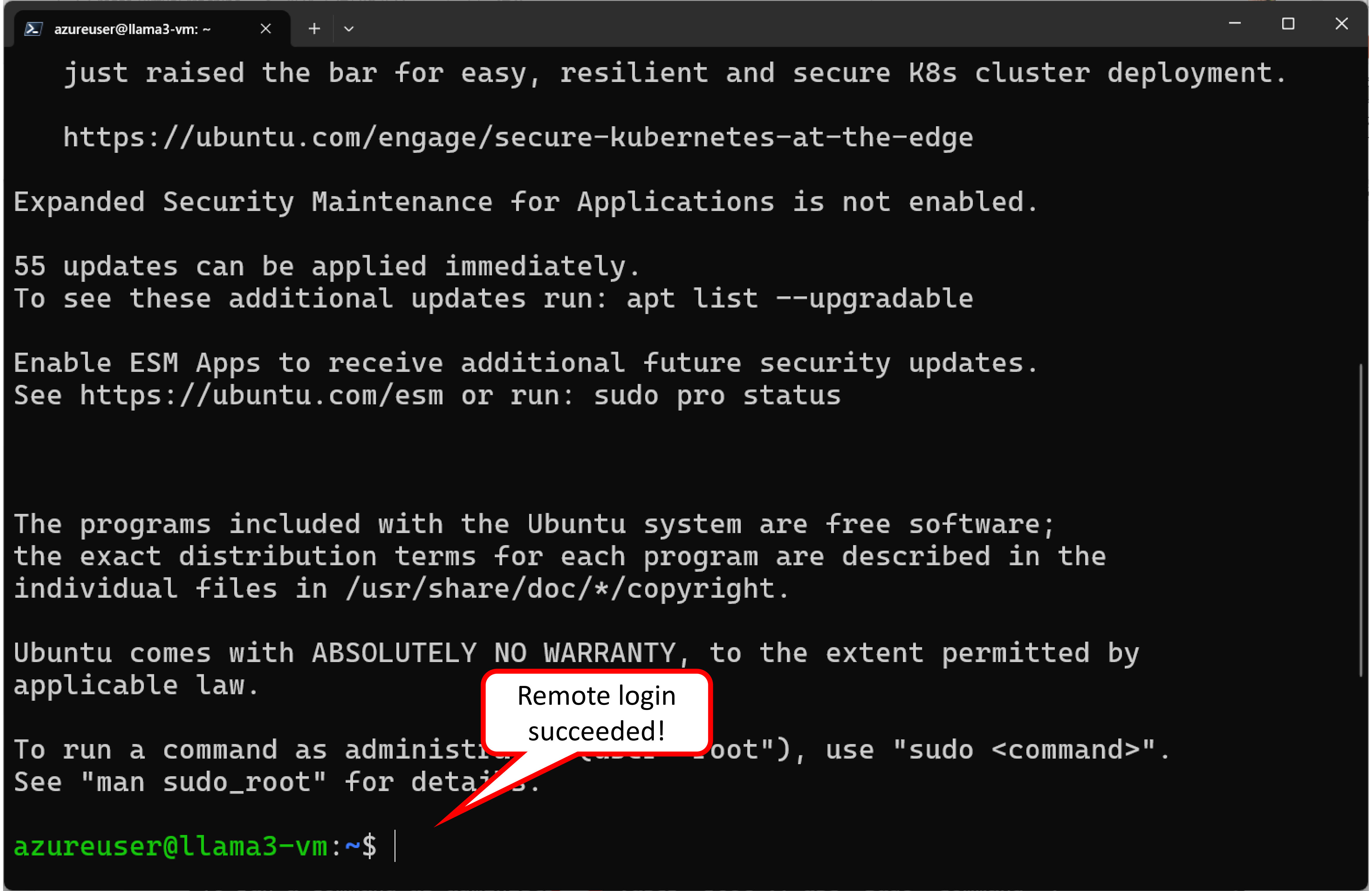
If you haven't changed the account name, the default username is “azureuser.”

Public IP address



```
PS C:\Users\yamak> ssh -i .\.ssh\llama3--_key.pe
The authenticity of host '13.91.254.36 (13.91.25
ED25519 key fingerprint is SHA256:j5nG9HPO0/mojk
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])?
```

When connecting for the first time, you’ll be asked to confirm the connection—type “yes.”



```
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

55 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status



The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@llama3-vm:~$
```

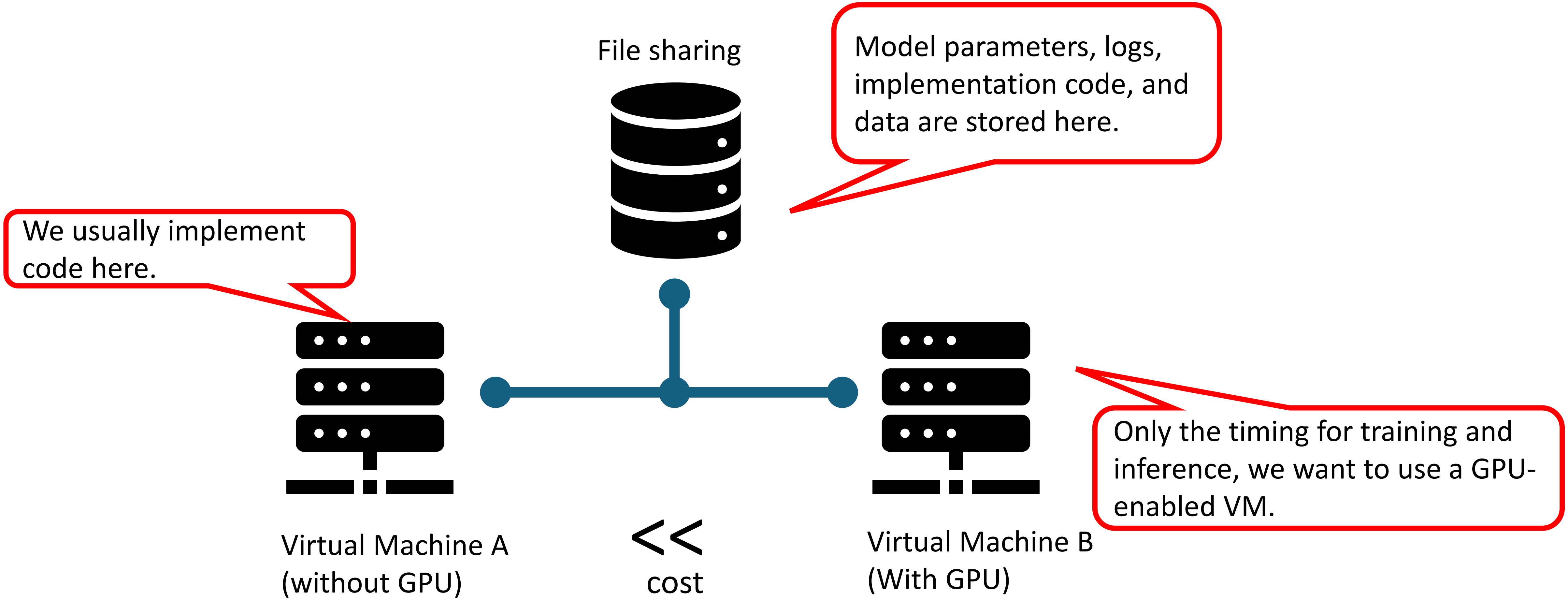
Remote login succeeded!

4. Share files across multiple virtual machines

[Tutorial: Create an NFS Azure file share and mount it on a Linux VM using the Azure portal]()

Benefits of Sharing Files Across Multiple VMs

- **GPU-enabled VMs are expensive** – do you really need a GPU all the time?
- You may wan to **develop and test your code on a CPU-only VM**, and use a **GPU-enabled VM only when training or running inference.**
- This approach helps reduce costs while maintaining flexibility.



File sharing
Virtual Machine A
(without GPU)
<<
cost
Virtual Machine B
(With GPU)

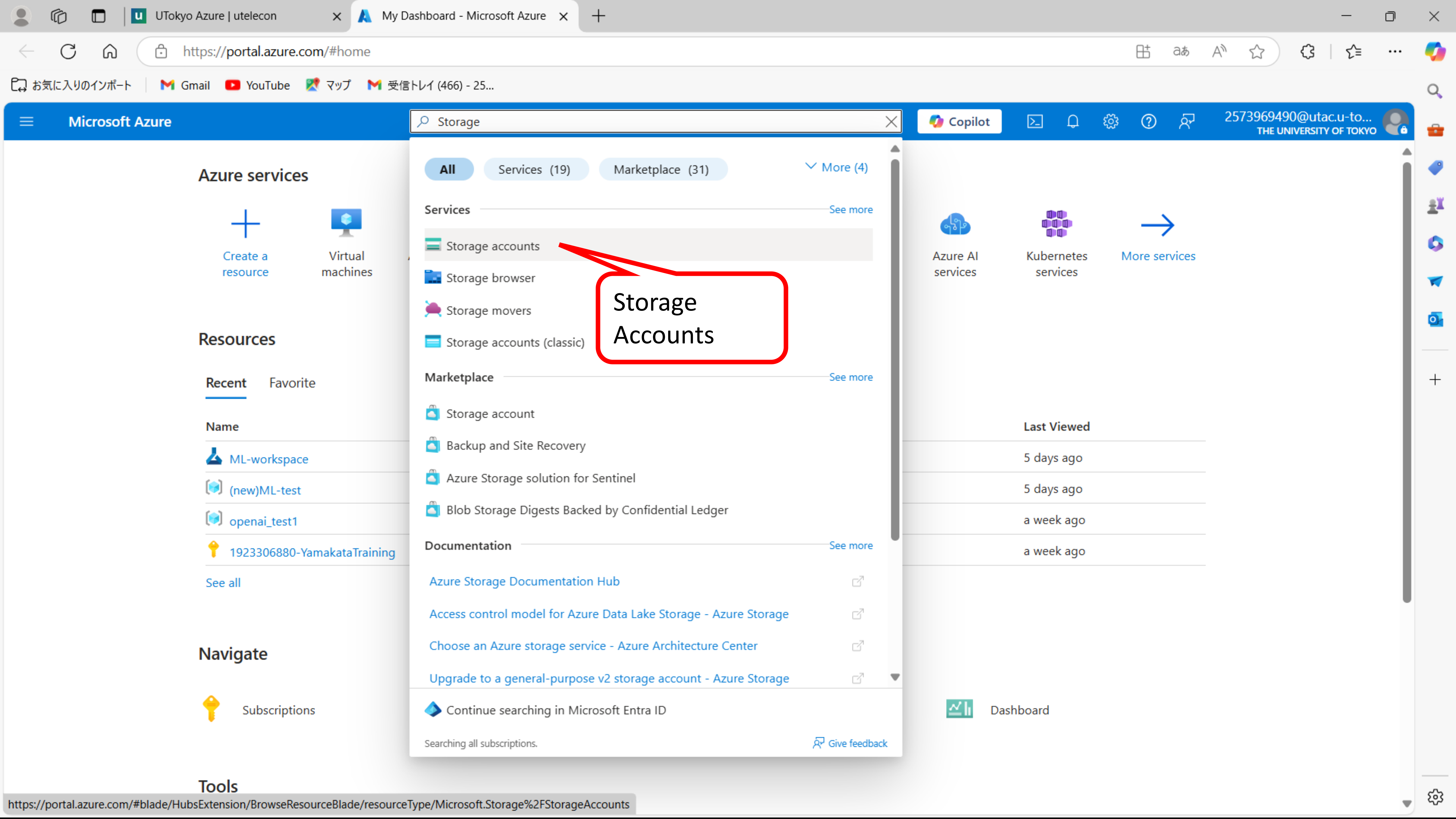
Model parameters, logs, implementation code, and data are stored here.

We usually implement code here.

Only the timing for training and inference, we want to use a GPU-enabled VM.

4.1 Create a storage account

Azure tutorial: Create an NFS Azure file share and mount it on a Linux VM using the Azure portal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My Dashboard - Microsoft Azure
https://portal.azure.com/#home
お気に入りのインポート
Gmail
YouTube
マップ
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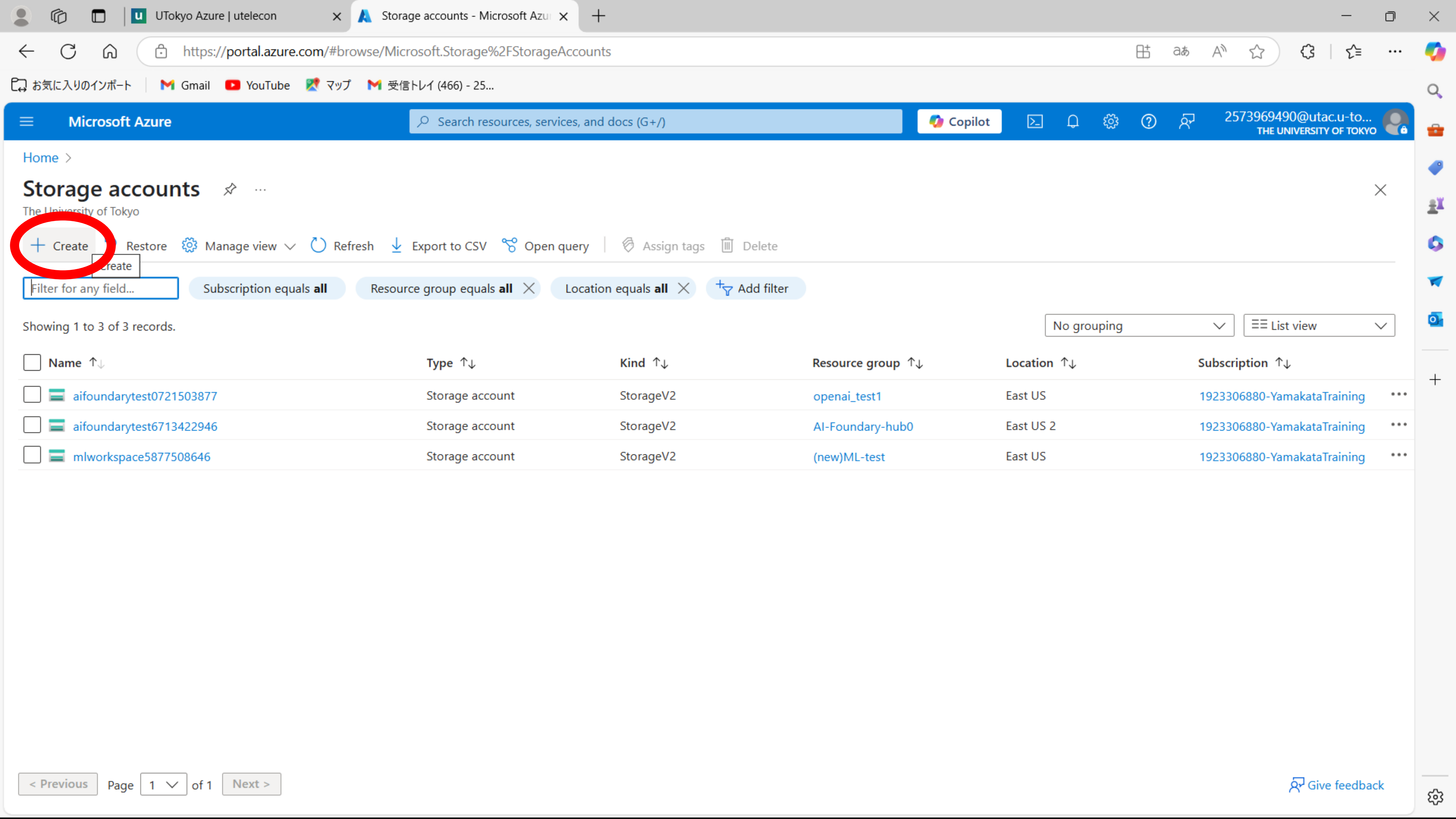
Azure services
Create a resource
Virtual machines
Azure AI services
Kubernetes services
More services
All
Services (19)
Marketplace (31)
More (4)
Services
See more
Storage accounts
Storage browser
Storage movers
Storage accounts (classic)
Marketplace
See more
Storage account
Backup and Site Recovery
Azure Storage solution for Sentinel
Blob Storage Digests Backed by Confidential Ledger
Documentation
See more
Azure Storage Documentation Hub
Access control model for Azure Data Lake Storage - Azure Storage
Choose an Azure storage service - Azure Architecture Center
Upgrade to a general-purpose v2 storage account - Azure Storage
Continue searching in Microsoft Entra ID
Searching all subscriptions.
Give feedback
Resources
Recent
Favorite
Name
Last Viewed
ML-workspace
5 days ago
(new)ML-test
5 days ago
openai_test1
a week ago
1923306880-YamakataTraining
a week ago
See all
Navigate
Subscriptions
Dashboard
Tools
https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Storage%2FStorageAccounts

Storage Accounts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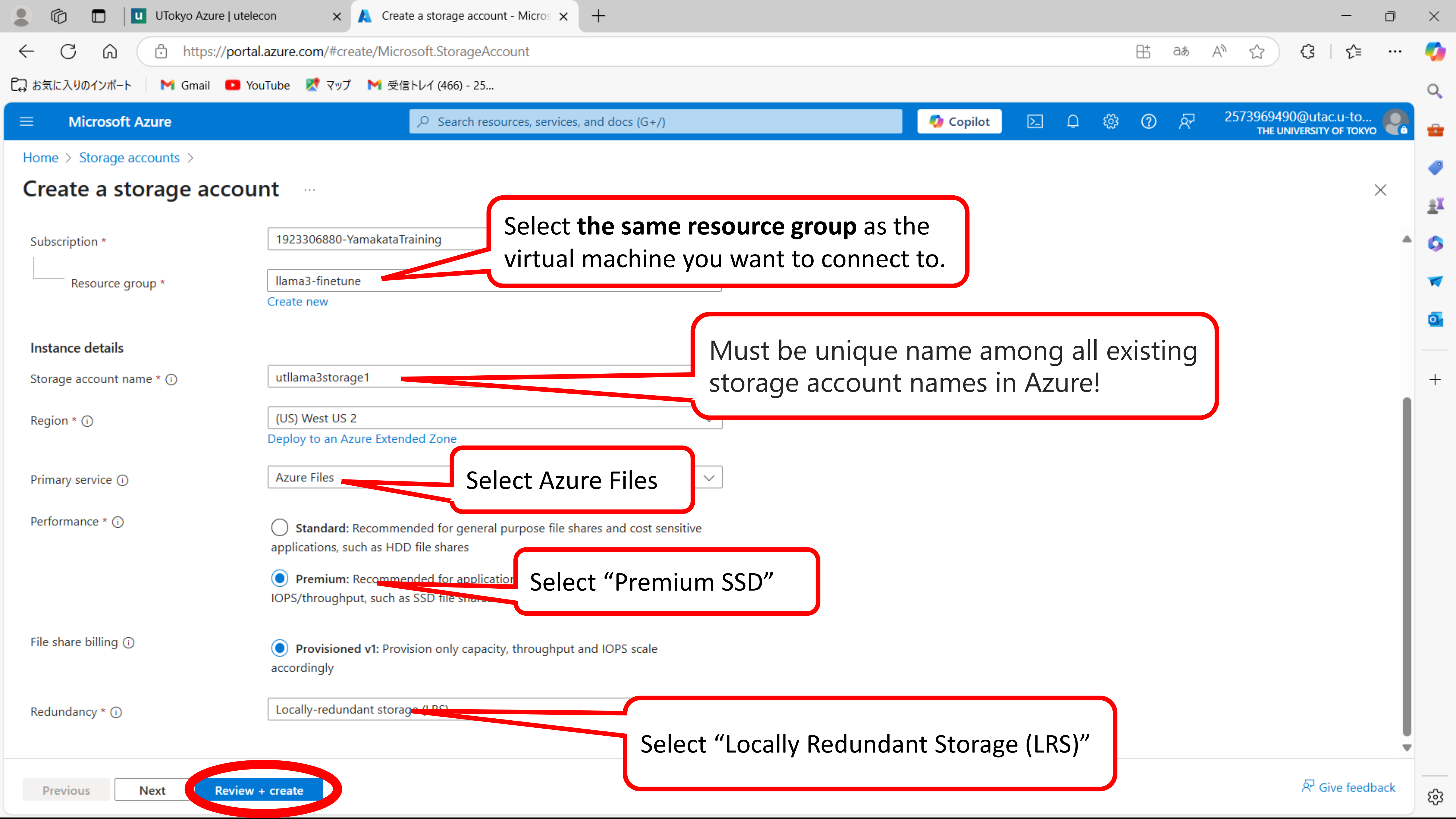
Home
Create
Restore
Manage view
Refresh
Export to CSV
Open query
Assign tags
Delete
Create
Filter for any field...
Subscription equals all
Resource group equals all
Location equals all
Add filter
No grouping
List view
< Previous
Page
1
of 1
Next >
Give feedback

Storage accounts

The University of Tokyo

Showing 1 to 3 of 3 records.

Name	Type	Kind	Resource group	Location	Subscription
aifoundarytest0721503877	Storage account	StorageV2	openai_test1	East US	1923306880-YamakataTraining
aifoundarytest6713422946	Storage account	StorageV2	AI-Foundary-hub0	East US 2	1923306880-YamakataTraining
mlworkspace5877508646	Storage account	StorageV2	(new)ML-test	East US	1923306880-YamakataTraining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Create new
Deploy to an Azure Extended Zone
Previous
Next
Review + create
Give feedback

Create a storage account

Subscription * 1923306880-YamakataTraining

Resource group * llama3-finetune

Select **the same resource group** as the virtual machine you want to connect to.

Instance details

Storage account name * utllama3storage1

Must be unique name among all existing storage account names in Azure!

Region * (US) West US 2

Primary service Azure Files

Select Azure Files

Performance *

○ **Standard:** Recommended for general purpose file shares and cost sensitive applications, such as HDD file shares

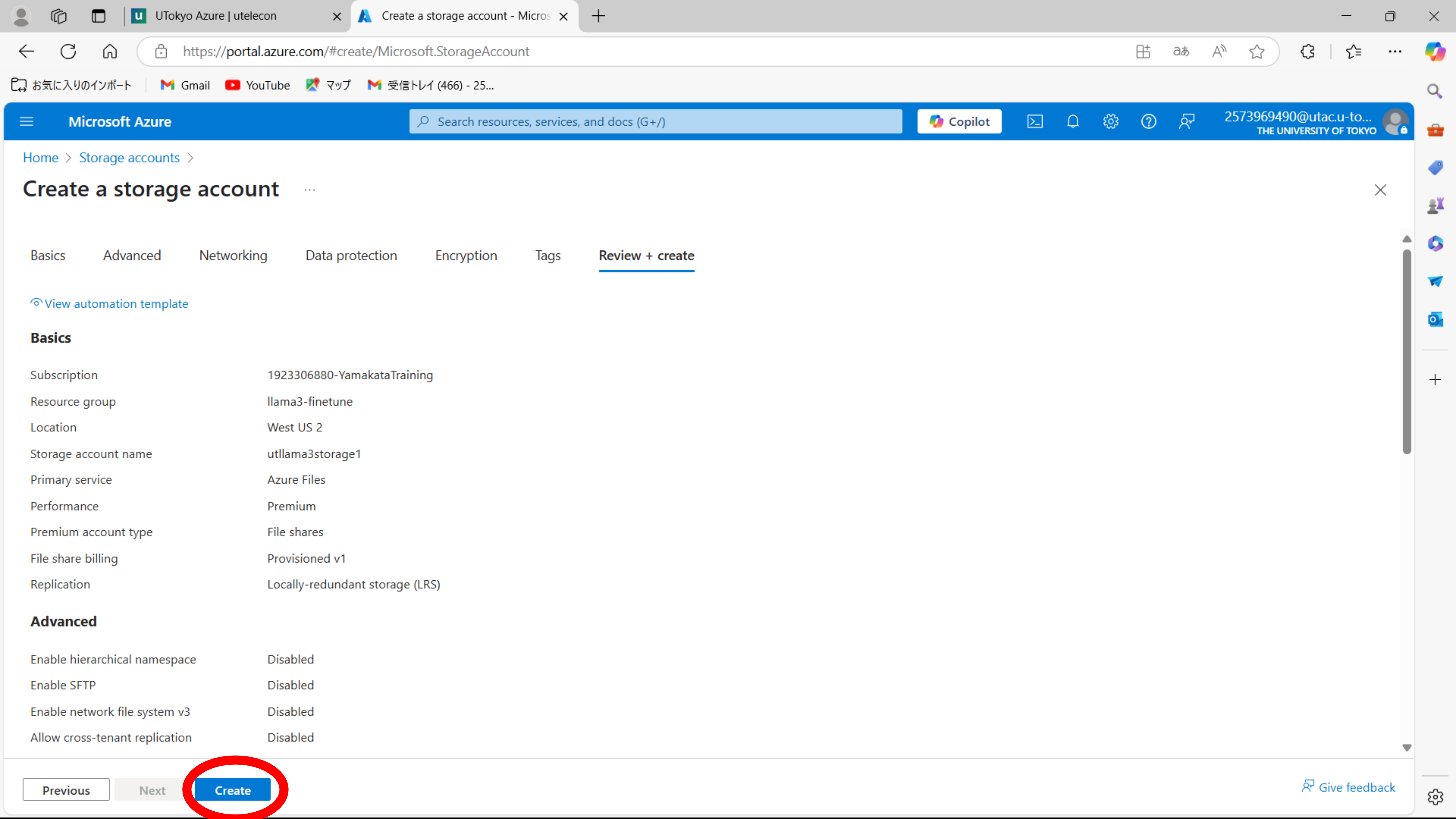
● **Premium:** Recommended for application IOPS/throughput, such as SSD file shares

Select “Premium SSD”

File share billing ● **Provisioned v1:** Provision only capacity, throughput and IOPS scale accordingly

Redundancy * Locally-redundant storage (LRS)

Select “Locally Redundant Storage (LRS)”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https://portal.azure.com/#create/Microsoft.StorageAccount
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Networking
Data protection
Encryption
Tags
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Next
Create
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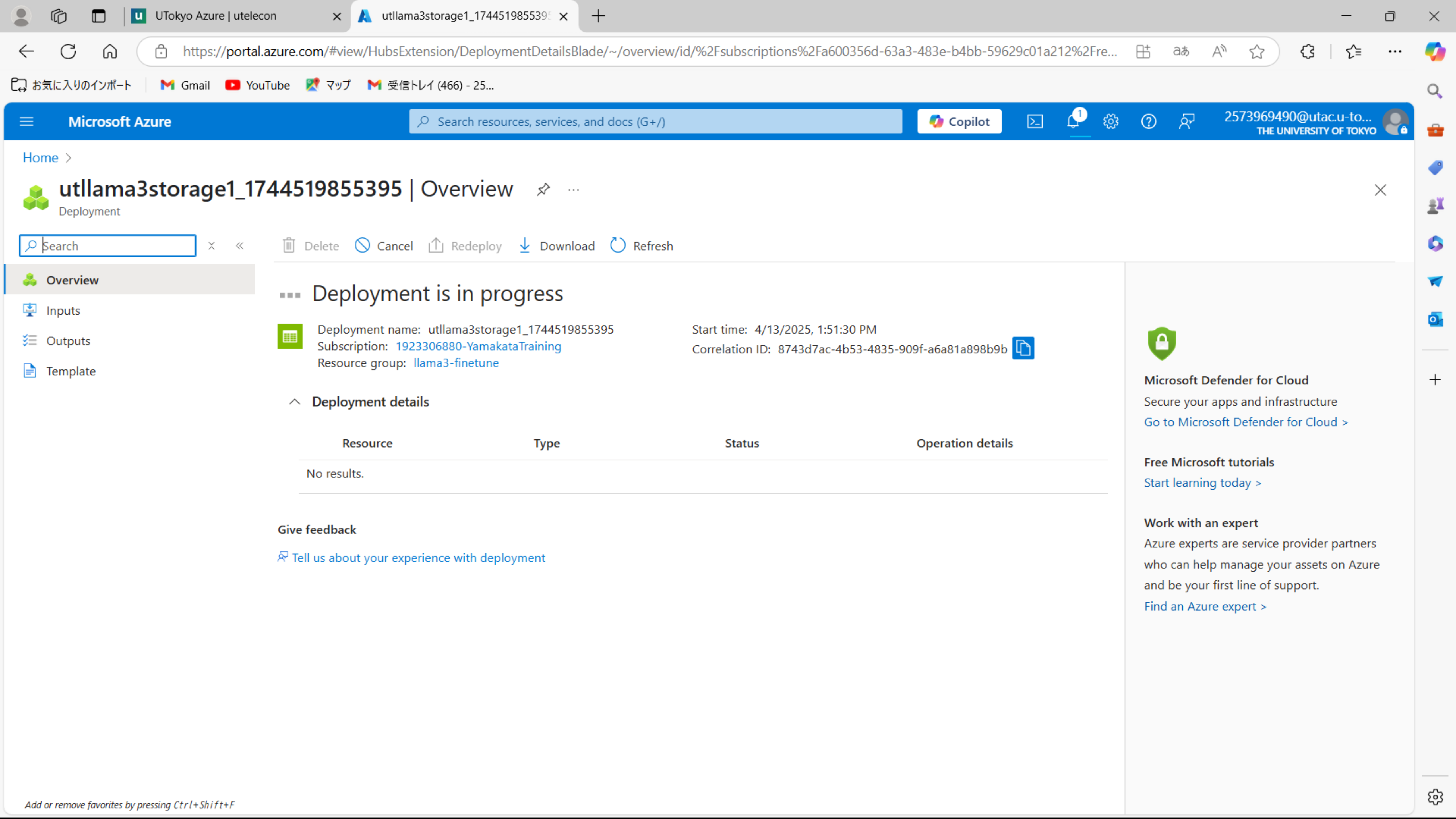
Create a storage account

Basics

Subscription	1923306880-YamakataTraining
Resource group	llama3-finetune
Location	West US 2
Storage account name	utllama3storage1
Primary service	Azure Files
Performance	Premium
Premium account type	File shares
File share billing	Provisioned v1
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled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Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh

utllama3storage1_1744519855395 | Overview

Deployment

Deployment is in progress

Deployment name: utllama3storage1_1744519855395
Subscription: 1923306880-YamakataTraining
Resource group: llama3-finetune

Start time: 4/13/2025, 1:51:30 PM
Correlation ID: 8743d7ac-4b53-4835-909f-a6a81a898b9b

Deployment details

Resource	Type	Status	Operation details
No results.			

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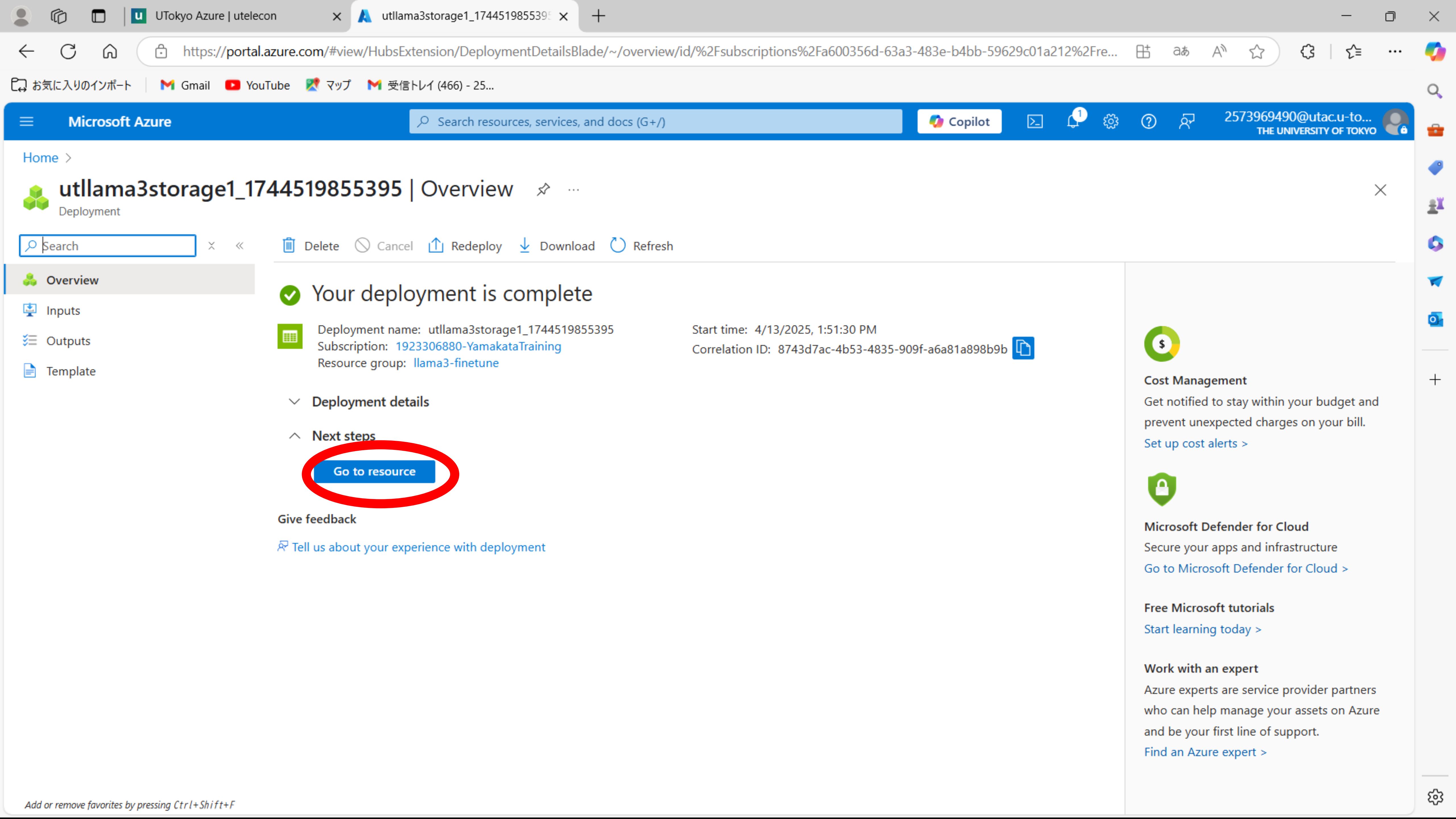
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Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Go to resource

utllama3storage1_1744519855395 | Overview

Deployment

Your deployment is complete

Deployment name: utllama3storage1_1744519855395
Subscription: 1923306880-YamakataTraining
Resource group: llama3-finetune

Start time: 4/13/2025, 1:51:30 PM
Correlation ID: 8743d7ac-4b53-4835-909f-a6a81a898b9b

Deployment details

Next steps

Give feedback

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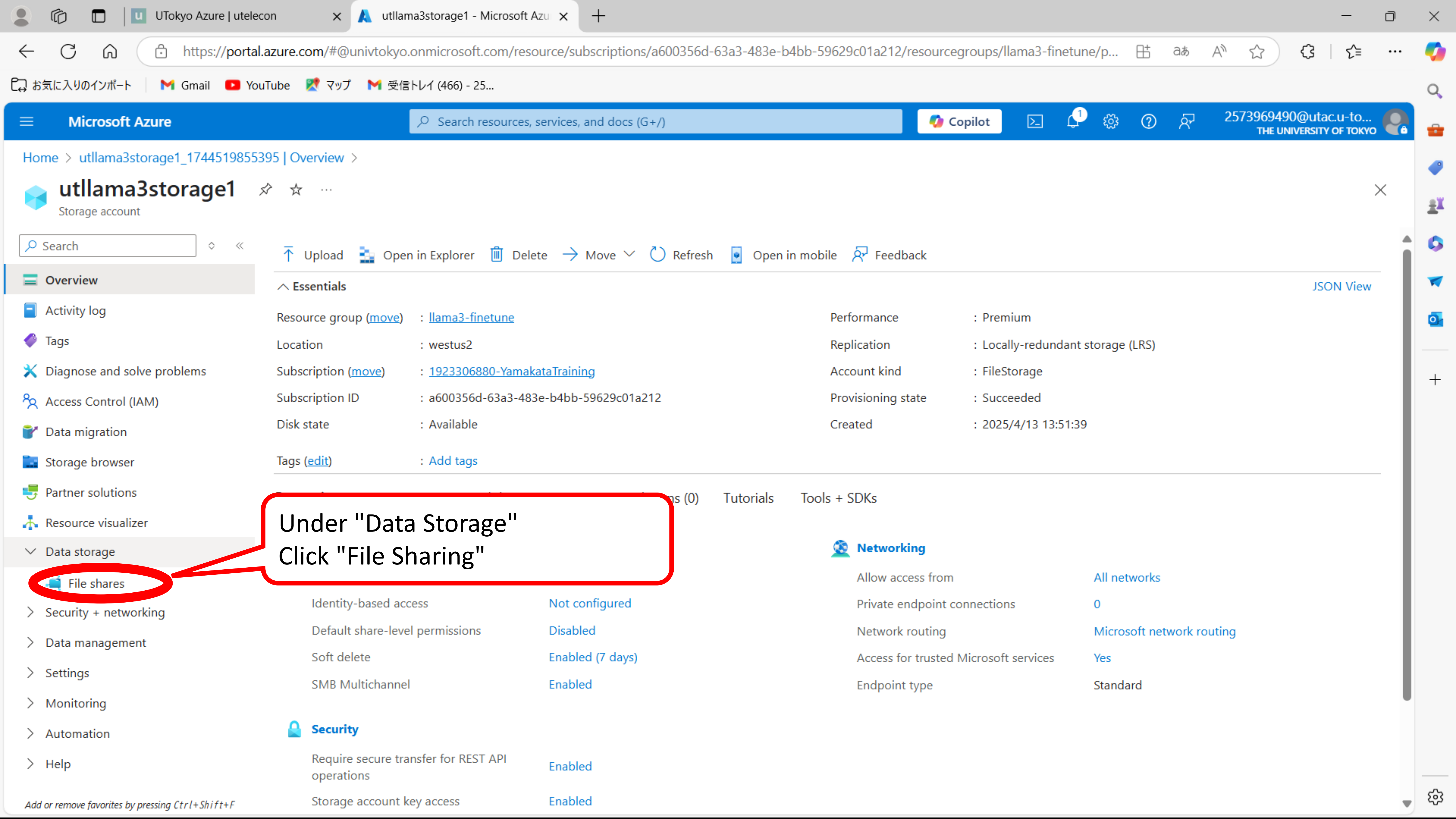

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Home > utllama3storage1_1744519855395 | Overview >
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
Resource visualizer
Data storage
File shares
Security + networking
Data management
Settings
Monitoring
Automation
Help
Add or remove favorites by pressing Ctrl+Shift+F
Upload
Open in Explorer
Delete
Move
Refresh
Open in mobile
Feedback
Essentials
JSON View
ns (0)
Tutorials
Tools + SDKs
Networking
Security

utllama3storage1
Storage account

Resource group (move)	: llama3-finetune	Performance	: Premium
Location	: westus2	Replication	: Locally-redundant storage (LRS)
Subscription (move)	: 1923306880-YamakataTraining	Account kind	: FileStorage
Subscription ID	: a600356d-63a3-483e-b4bb-59629c01a212	Provisioning state	: Succeeded
Disk state	: Available	Created	: 2025/4/13 13:51:39
Tags (edit)	: Add tags		

Identity-based access	Not configured
Default share-level permissions	Disabled
Soft delete	Enabled (7 days)
SMB Multichannel	Enabled

Networking

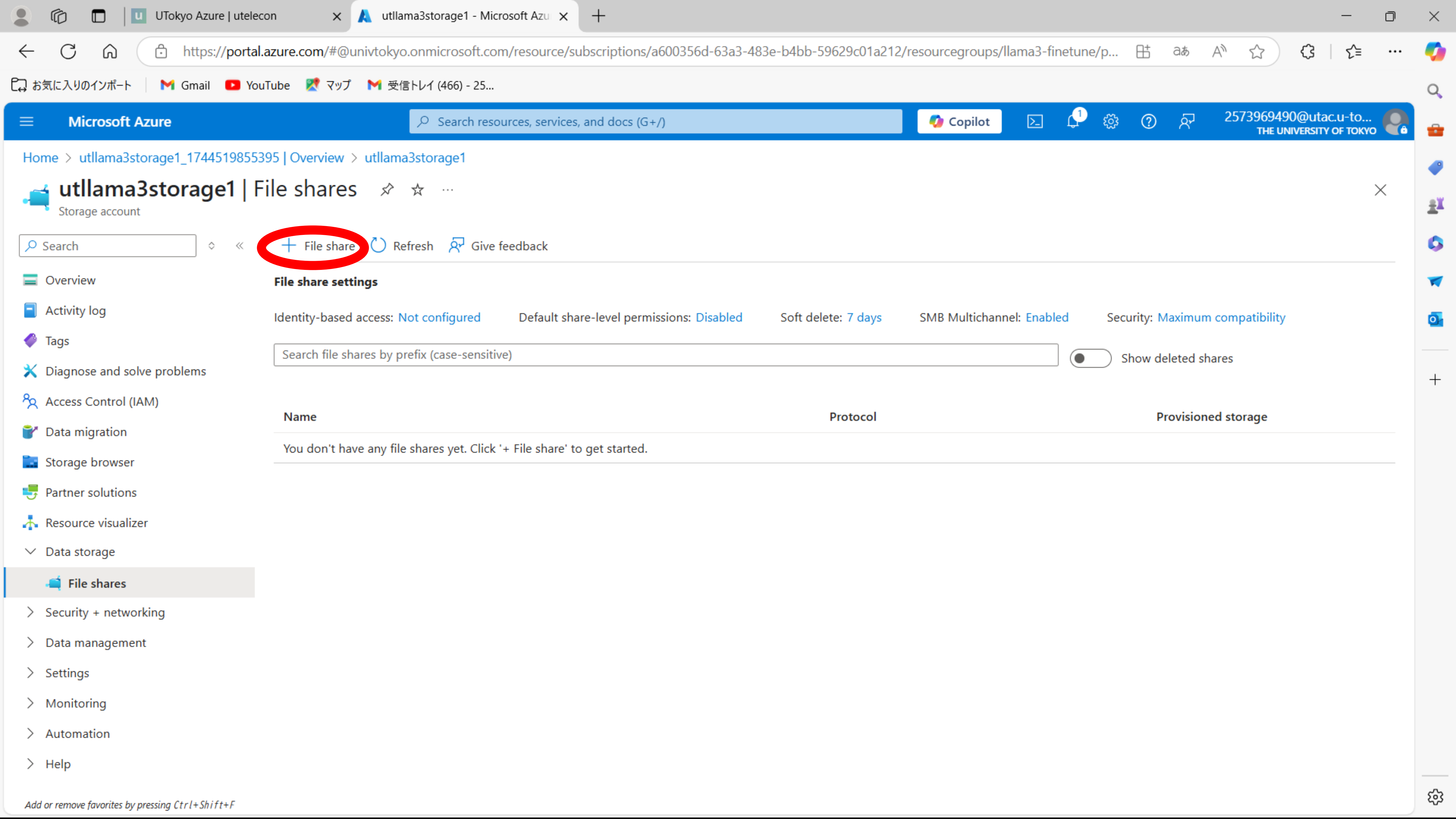
Allow access from	All networks
Private endpoint connections	0
Network routing	Microsoft network routing
Access for trusted Microsoft services	Yes
Endpoint type	Standard

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled

Under "Data Storage"
Click "File Sharing"

4.2 Create a file share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Home
utllama3storage1_1744519855395 | Overview
utllama3storage1

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Storage account

Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
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Data storage
File shares
Security + networking
Data management
Settings
Monitoring
Automation
Help
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+ File share
Refresh
Give feedback

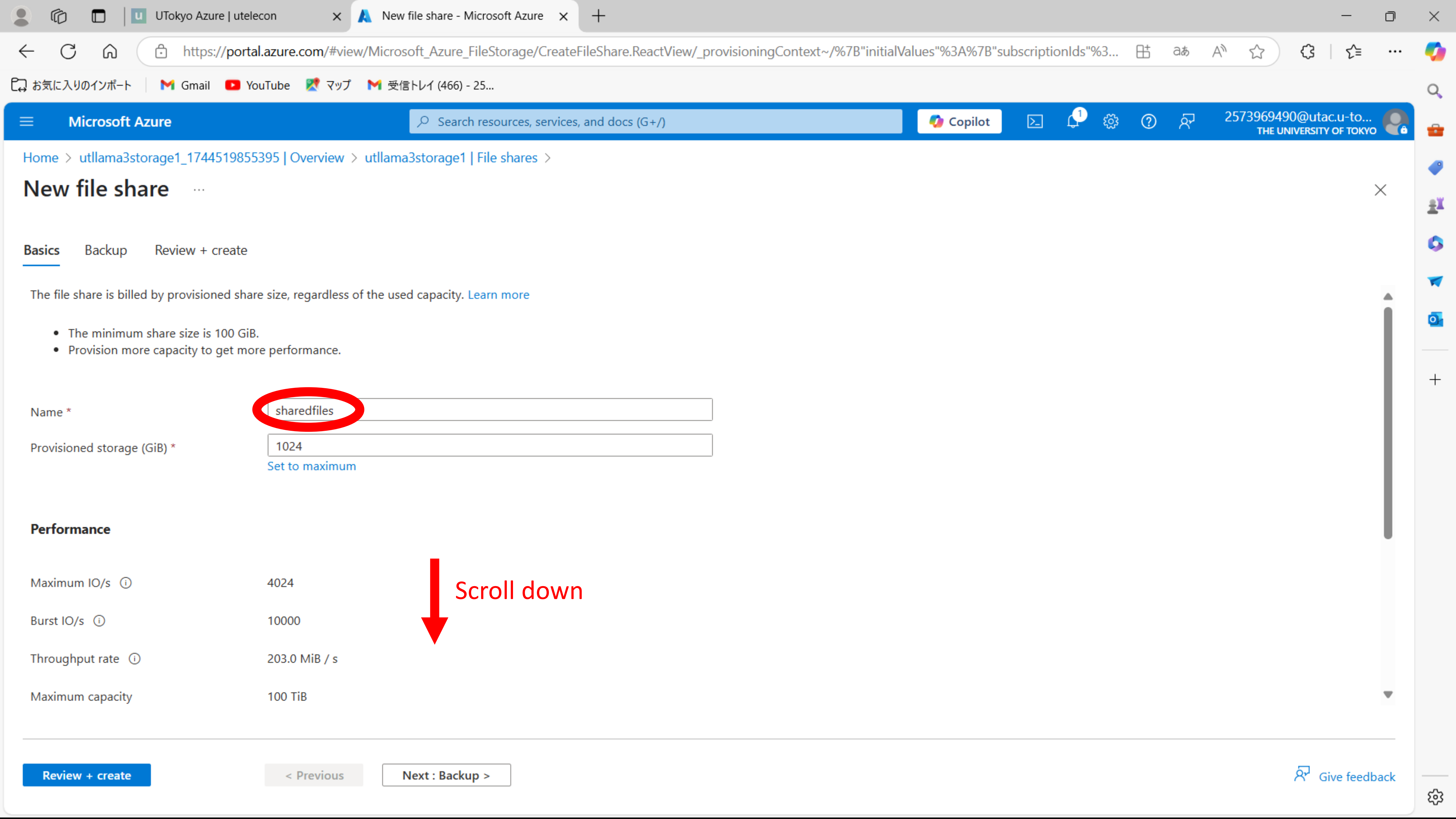
File share settings

Identity-based access: Not configured
Default share-level permissions: Disabled
Soft delete: 7 days
SMB Multichannel: Enabled
Security: Maximum compatibility

Search file shares by prefix (case-sensitive)

Show deleted shares

Name	Protocol	Provisioned storage
You don't have any file shares yet. Click '+ File share' to get started.		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Home > utllama3storage1_1744519855395 | Overview > utllama3storage1 | File shares >
Basics
Backup
Review + create
Review + create
< Previous
Next : Backup >
Give feedback
Scroll down

New file share

The file share is billed by provisioned share size, regardless of the used capacity. Learn more

- The minimum share size is 100 GiB.
- Provision more capacity to get more performance.

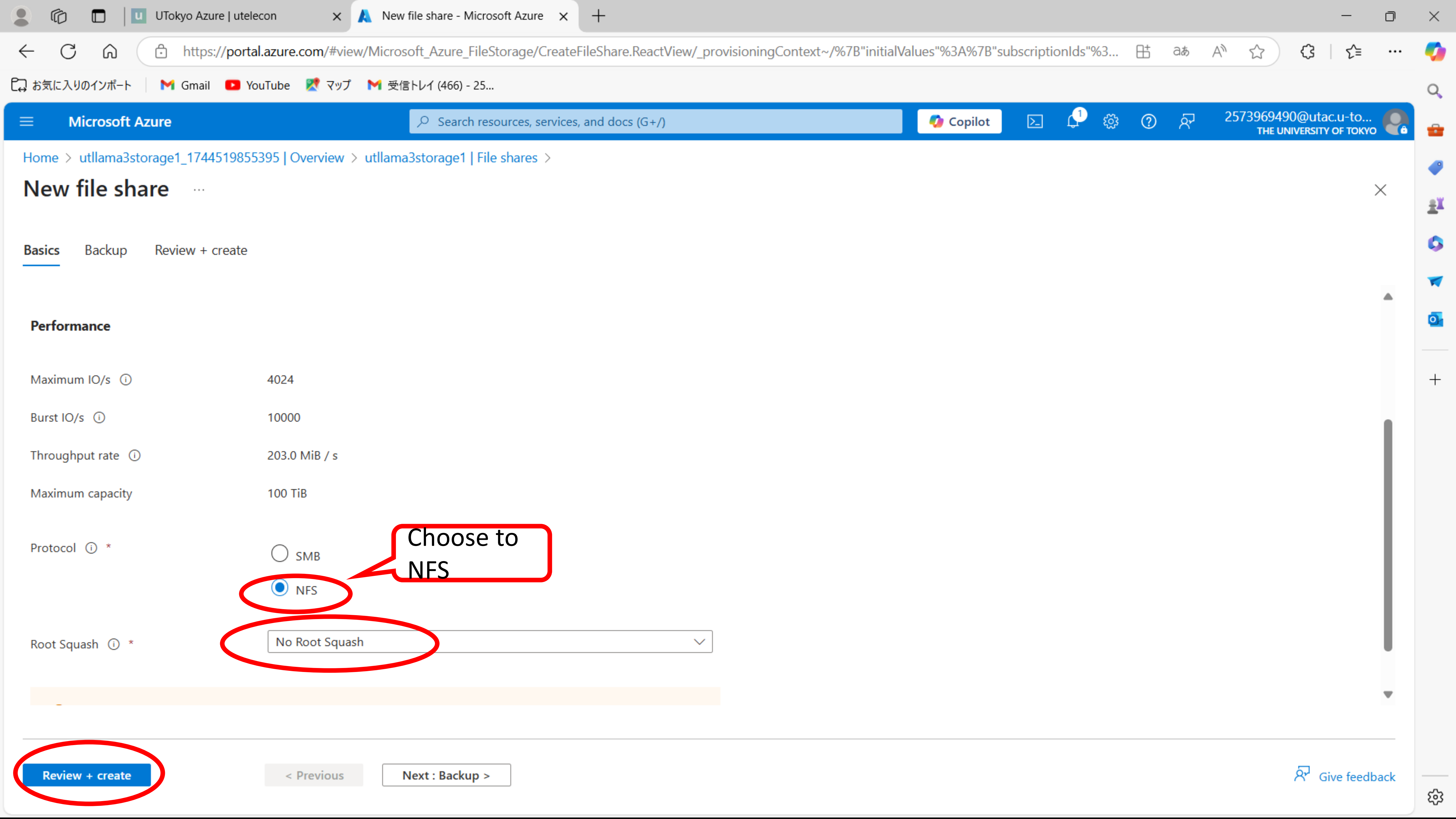
Name * sharedfiles

Provisioned storage (GiB) * 1024

Set to maximum

Performance

Maximum IO/s	4024
Burst IO/s	10000
Throughput rate	203.0 MiB / s
Maximum capacity	100 TiB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Basics
Backup
Review + create
Review + create
< Previous
Next : Backup >
Give feedback

New file share

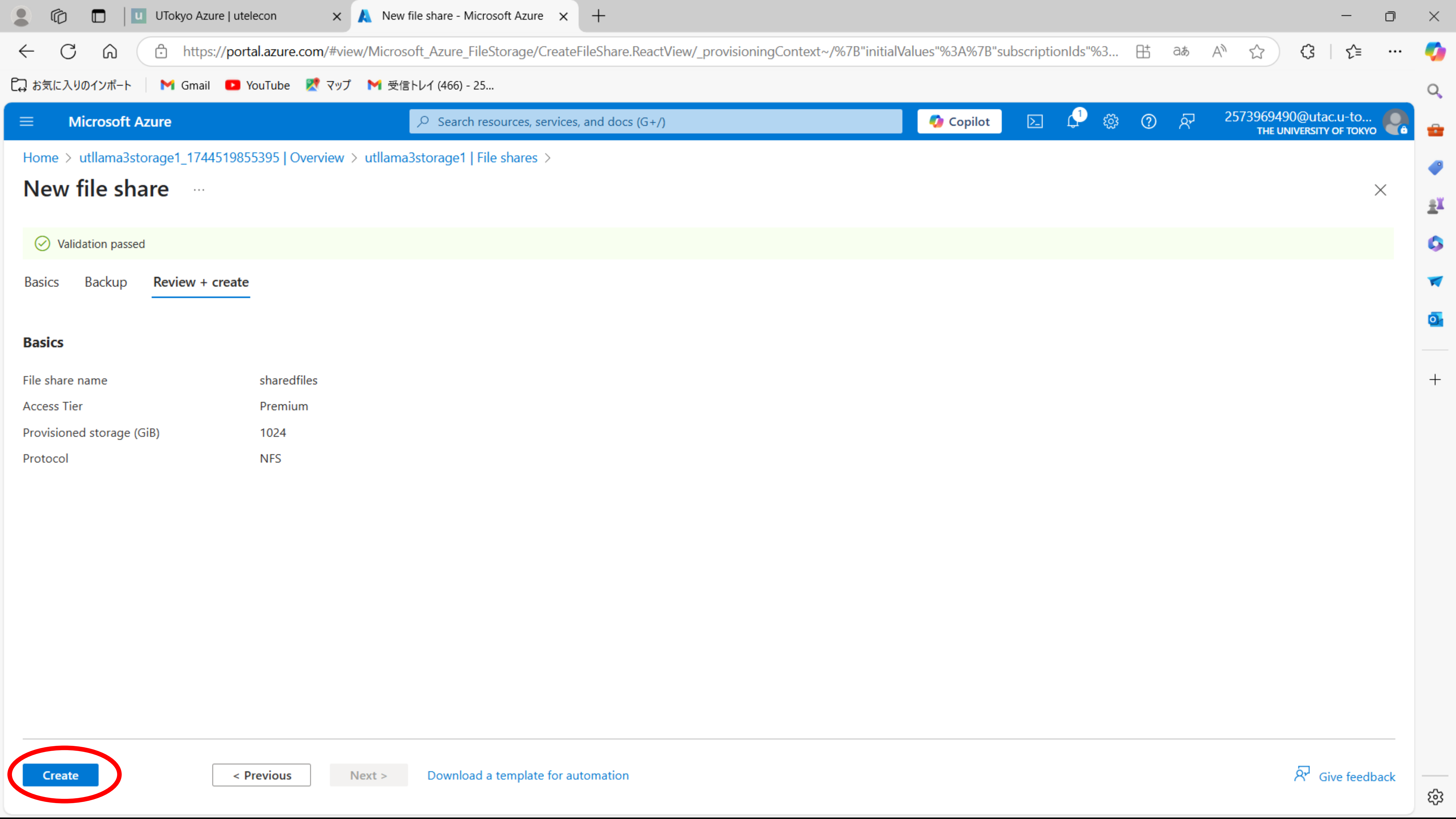
Performance

Maximum IO/s	4024
Burst IO/s	10000
Throughput rate	203.0 MiB / s
Maximum capacity	100 TiB

Protocol *
○ SMB
● NFS

Root Squash *
No Root Squash

Choose to NFS



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New file share - Microsoft Azure

https://portal.azure.com/#view/Microsoft_Azure_FileStorage/CreateFileShare.ReactView/_provisioningContext~/%7B"initialValues"%3A%7B"subscriptionIds"%3...

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New file share

Validation passed

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Basics

File share name	sharedfiles
Access Tier	Premium
Provisioned storage (GiB)	1024
Protocol	NFS

Create
< Previous
Next >
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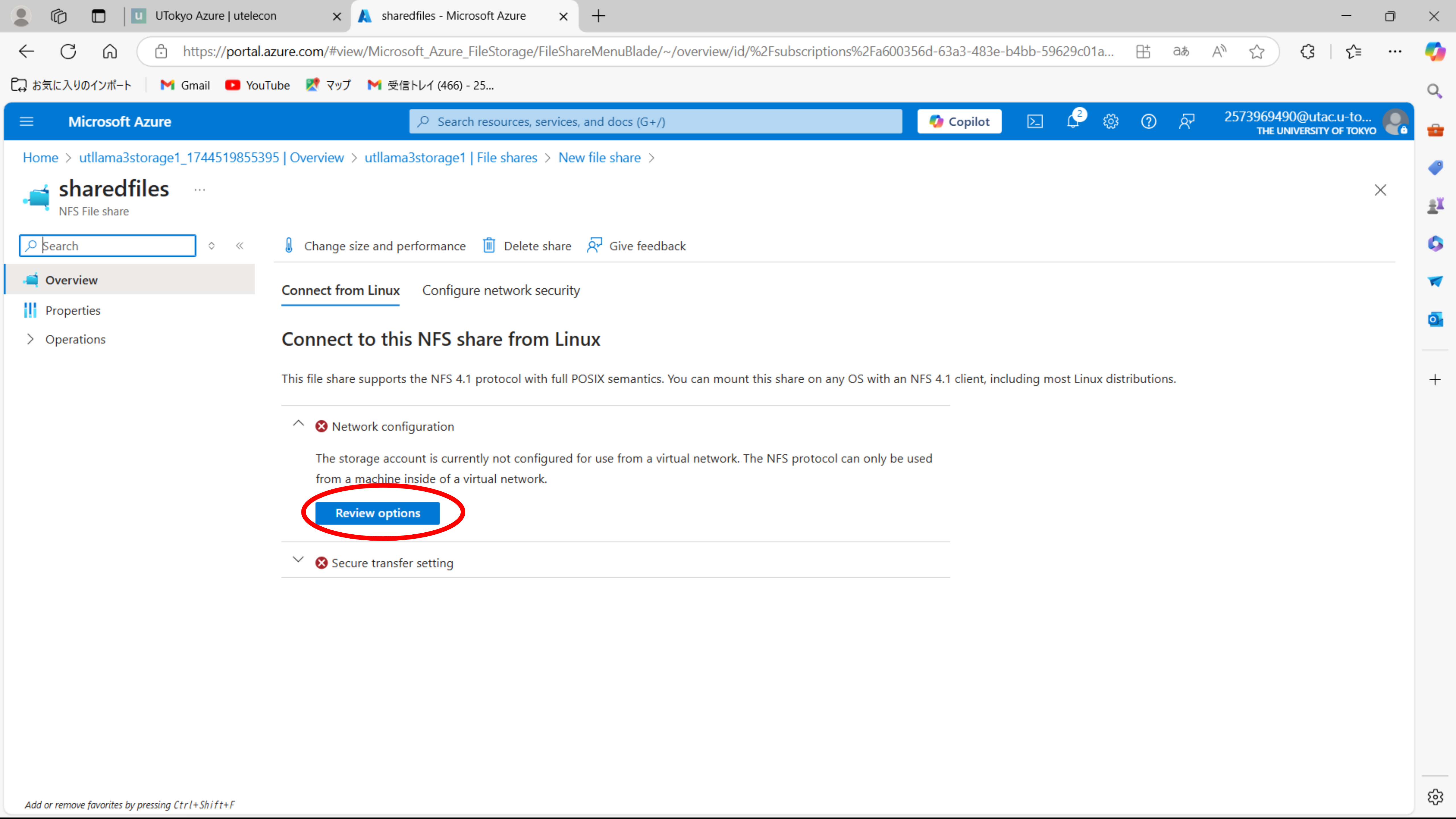
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Home > utllama3storage1_1744519855395 | Overview > utllama3storage1 | File shares > New file share >
sharedfiles
NFS File share
Search
Overview
Properties
Operations
Change size and performance
Delete share
Give feedback
Connect from Linux
Configure network security
Review options
Add or remove favorites by pressing Ctrl+Shift+F

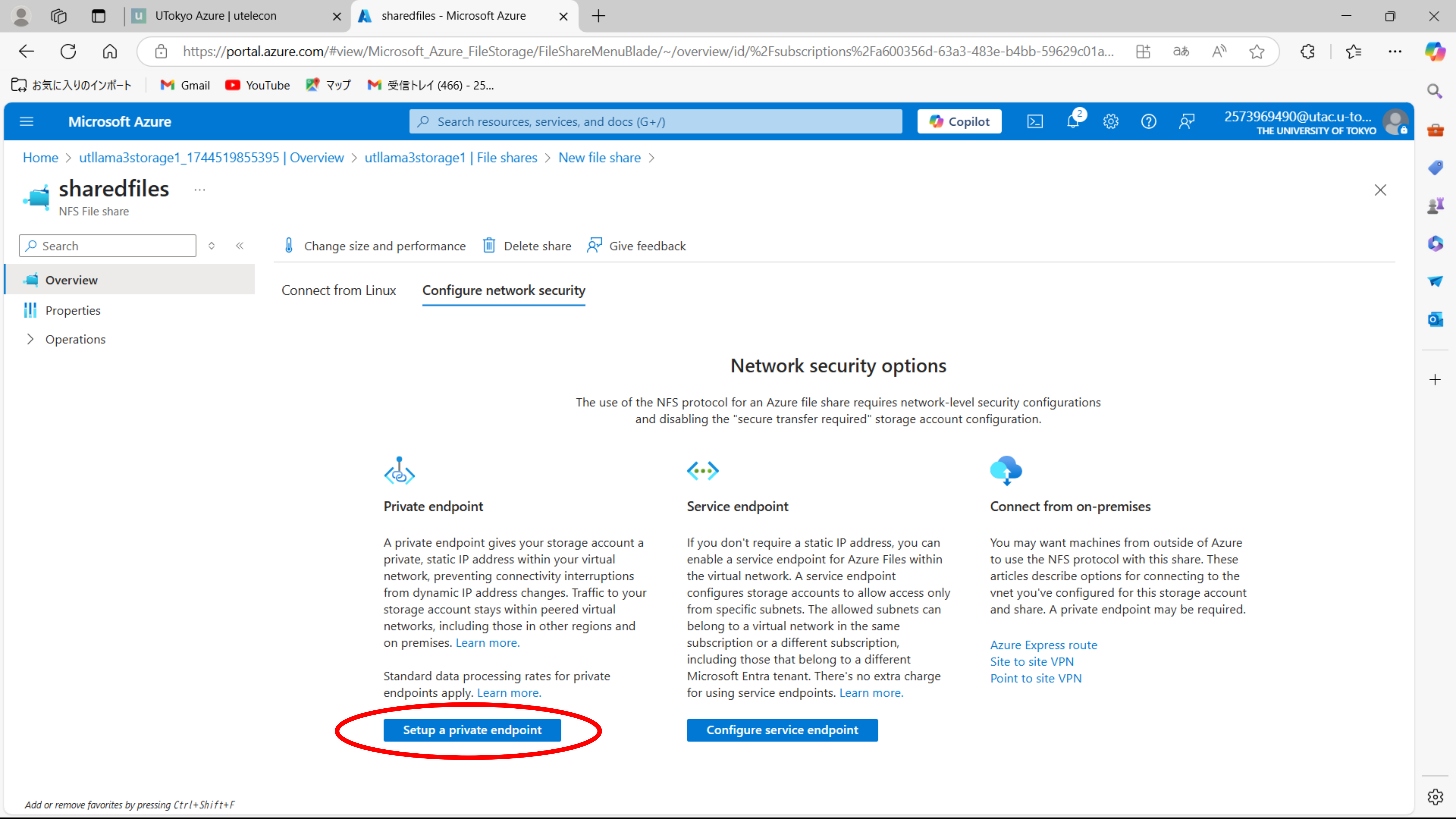
Connect to this NFS share from Linux

This file share supports the NFS 4.1 protocol with full POSIX semantics. You can mount this share on any OS with an NFS 4.1 client, including most Linux distributions.

Network configuration

The storage account is currently not configured for use from a virtual network. The NFS protocol can only be used from a machine inside of a virtual network.

Secure transfer setting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sharedfiles
NFS File share
Search
Overview
Properties
Operations
Change size and performance
Delete share
Give feedback
Connect from Linux
Configure network security
Setup a private endpoint
Configure service endpoint
Add or remove favorites by pressing Ctrl+Shift+F

Network security options

The use of the NFS protocol for an Azure file share requires network-level security configurations and disabling the "secure transfer required" storage account configuration.

Private endpoint

A private endpoint gives your storage account a private, static IP address within your virtual network, preventing connectivity interruptions from dynamic IP address changes. Traffic to your storage account stays within peered virtual networks, including those in other regions and on premises. Learn more.

Standard data processing rates for private endpoints apply. Learn more.

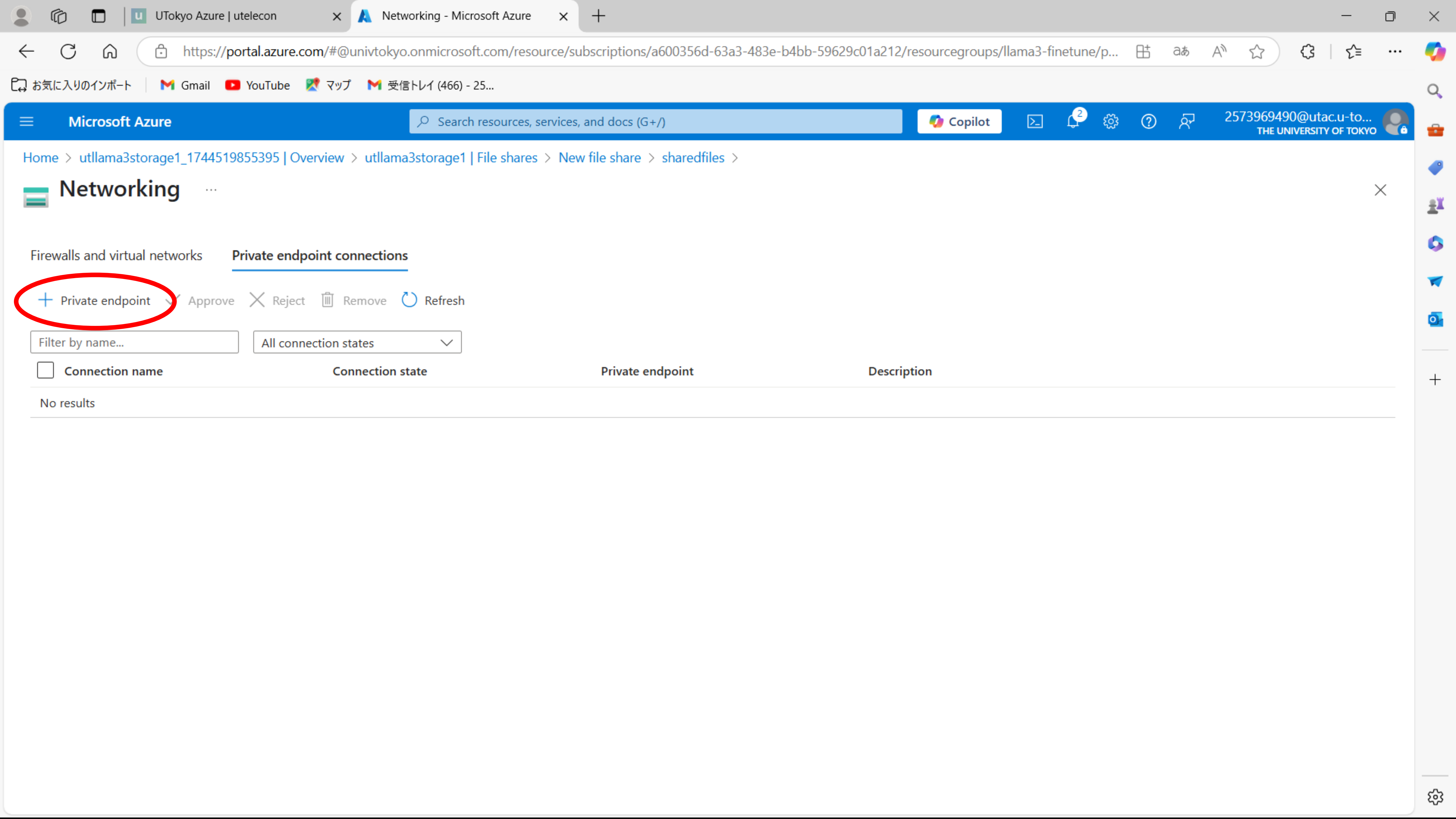
Service endpoint

If you don't require a static IP address, you can enable a service endpoint for Azure Files within the virtual network. A service endpoint configures storage accounts to allow access only from specific subnets. The allowed subnets can belong to a virtual network in the same subscription or a different subscription, including those that belong to a different Microsoft Entra tenant. There's no extra charge for using service endpoints. Learn more.

Connect from on-premises

You may want machines from outside of Azure to use the NFS protocol with this share. These articles describe options for connecting to the vnet you've configured for this storage account and share. A private endpoint may be required.

Azure Express route
Site to site VPN
Point to site VPN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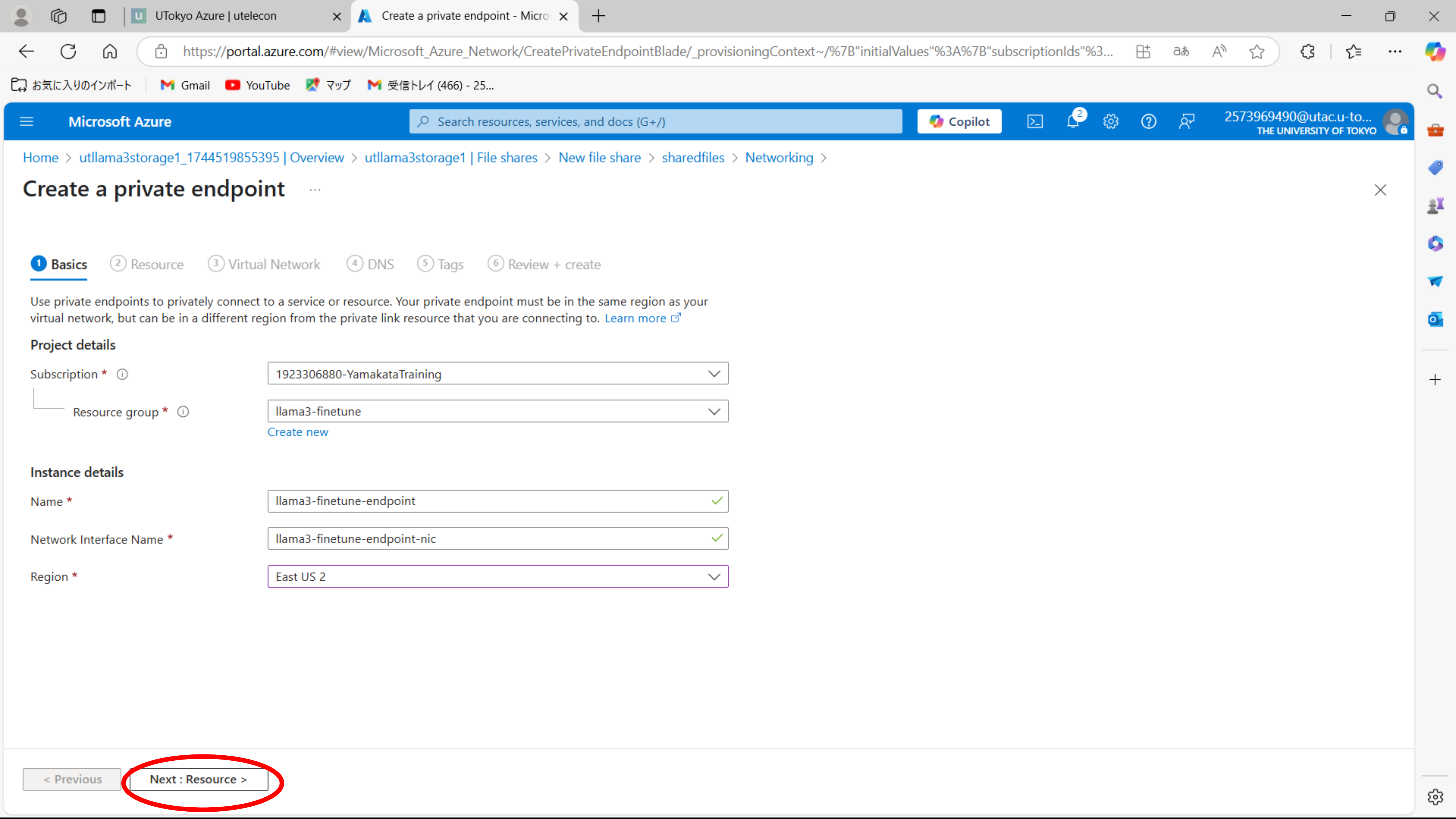
Home > utllama3storage1_1744519855395 | Overview > utllama3storage1 | File shares > New file share > sharedfiles >
Networking
Firewalls and virtual networks
Private endpoint connections
+ Private endpoint
Approve
Reject
Remove
Refresh
Filter by name...
All connection states

☐ Connection name	Connection state	Private endpoint	Description
No results			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Home > utllama3storage1_1744519855395 | Overview > utllama3storage1 | File shares > New file share > sharedfiles > Networking >

Create a private endpoint

1 Basics
2 Resource
3 Virtual Network
4 DNS
5 Tags
6 Review + create

Use private endpoints to privately connect to a service or resource. Your private endpoint must be in the same region as your virtual network, but can be in a different region from the private link resource that you are connecting to. Learn more

Project details

Subscription * 1923306880-YamakataTraining

Resource group * llama3-finetune

Create new

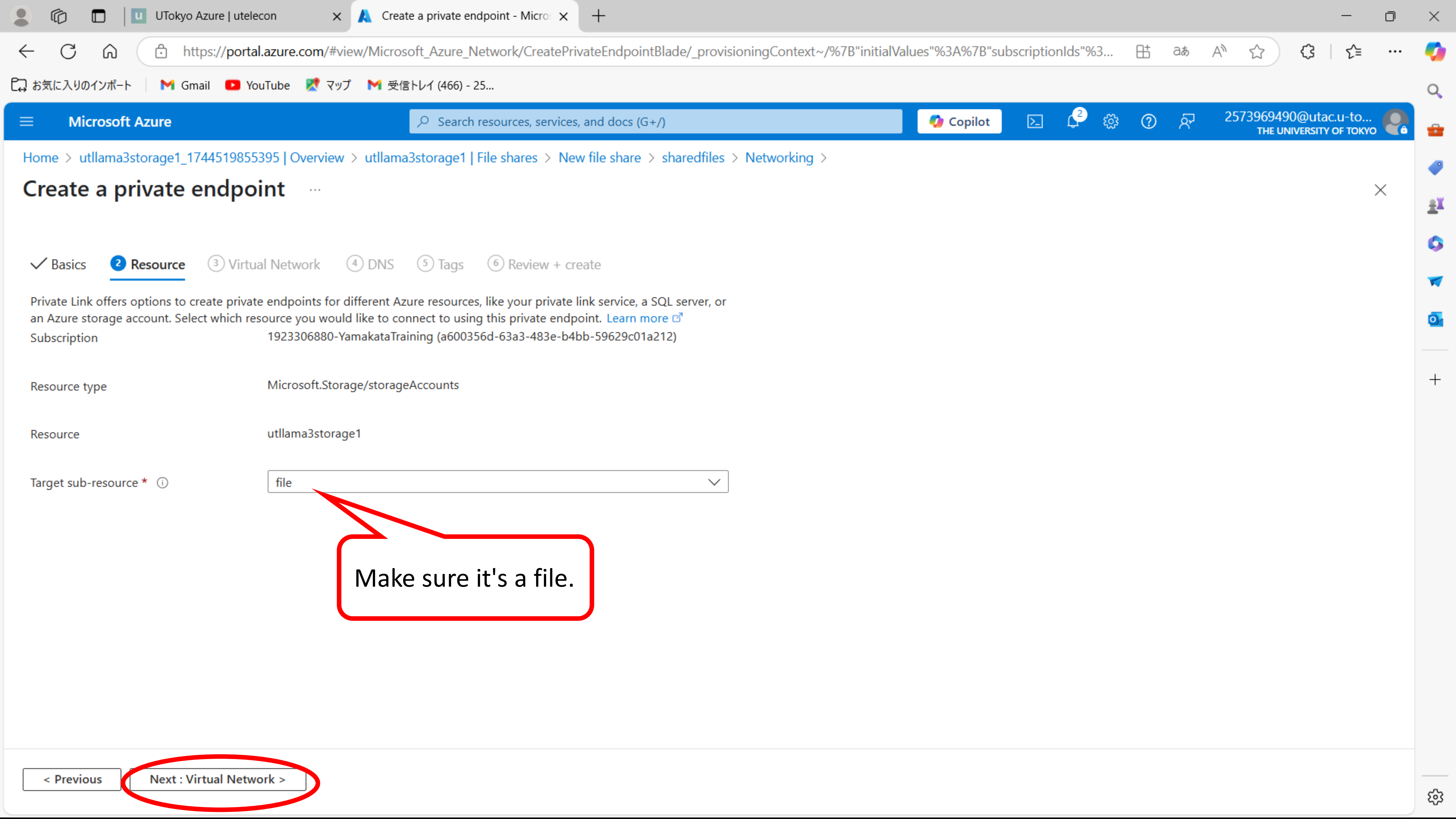
Instance details

Name * llama3-finetune-endpoint

Network Interface Name * llama3-finetune-endpoint-nic

Region * East US 2

< Previous
Next : Resource >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THE UNIVERSITY OF TOKYO
Home > utllama3storage1_1744519855395 | Overview > utllama3storage1 | File shares > New file share > sharedfiles > Networking >
✓ Basics
2 Resource
3 Virtual Network
4 DNS
5 Tags
6 Review + create
< Previous
Next : Virtual Network >

Create a private endpoint

Private Link offers options to create private endpoints for different Azure resources, like your private link service, a SQL server, or an Azure storage account. Select which resource you would like to connect to using this private endpoint. Learn more

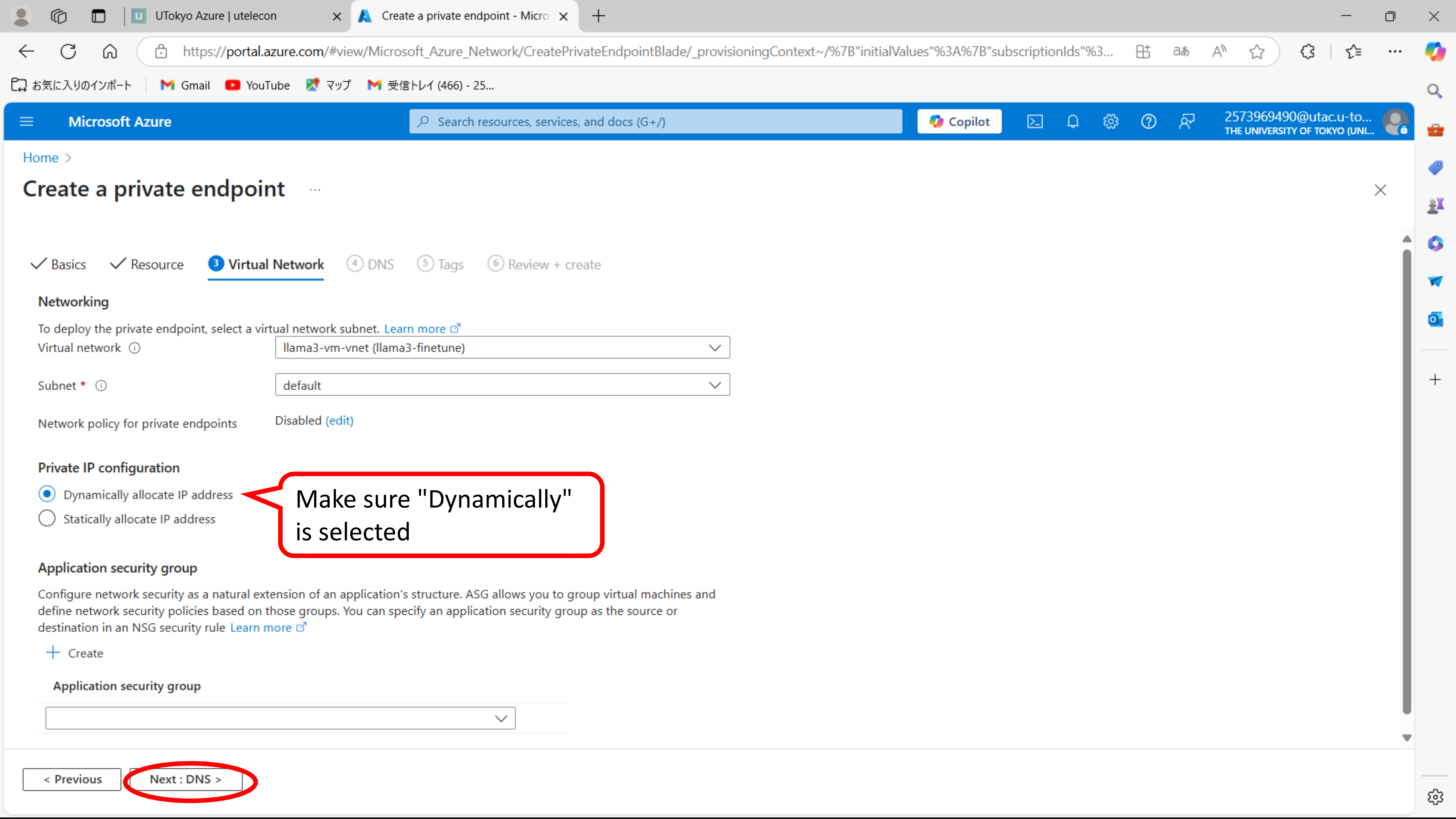
Subscription: 1923306880-YamakataTraining (a600356d-63a3-483e-b4bb-59629c01a212)

Resource type: Microsoft.Storage/storageAccounts

Resource: utllama3storage1

Target sub-resource *: file

Make sure it's a file.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Home >

Create a private endpoint

✓ Basics
✓ Resource
3 Virtual Network
4 DNS
5 Tags
6 Review + create

Networking

To deploy the private endpoint, select a virtual network subnet. Learn more

Virtual network: llama3-vm-vnet (llama3-finetune)

Subnet *: default

Network policy for private endpoints: Disabled (edit)

Private IP configuration

● Dynamically allocate IP address

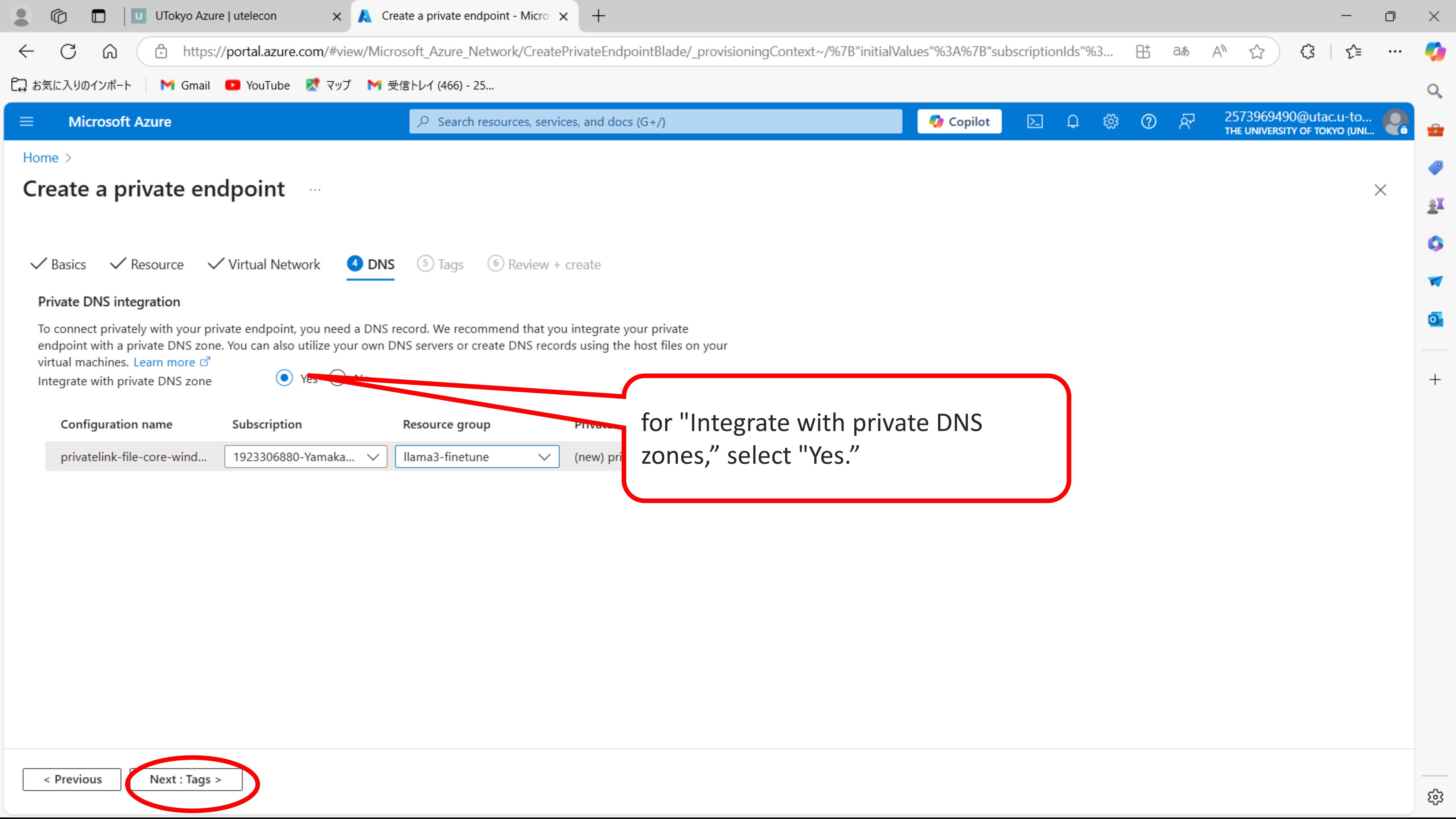
○ Statically allocate IP address

Make sure "Dynamically" is selected

Application security group

Configure network security as a natural extension of an application's structure. ASG allows you to group virtual machines and define network security policies based on those groups. You can specify an application security group as the source or destination in an NSG security rule Learn more

+ Create
Application security group
< Previous
Next : DNS >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Home >
✓ Basics
✓ Resource
✓ Virtual Network
4 DNS
5 Tags
6 Review + create
< Previous
Next : Tags >

Create a private endpoint

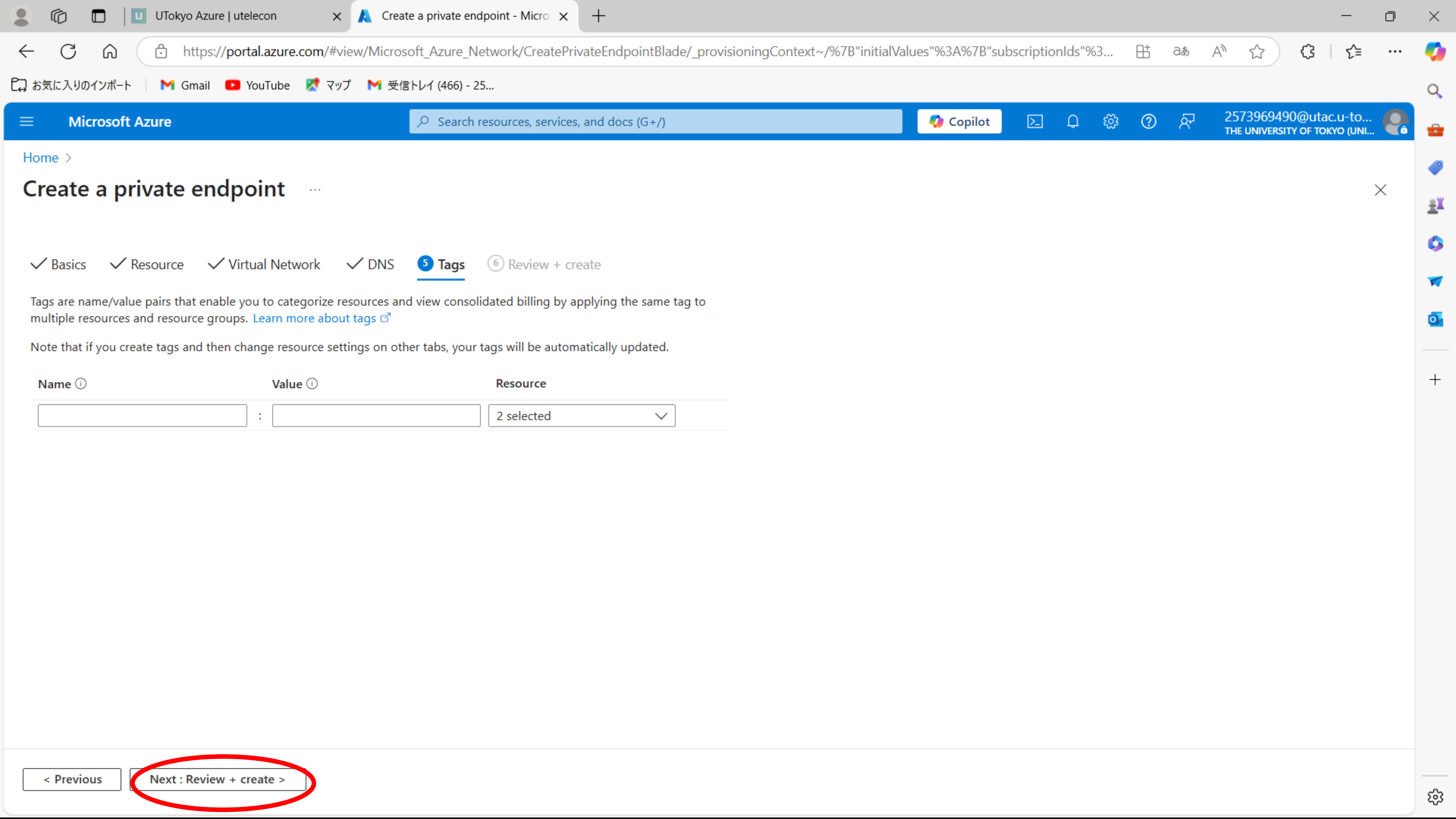
Private DNS integration

To connect privately with your private endpoint, you need a DNS record. We recommend that you integrate your private endpoint with a private DNS zone. You can also utilize your own DNS servers or create DNS records using the host files on your virtual machines. Learn more

Integrate with private DNS zone ● Yes ○ No

Configuration name	Subscription	Resource group	Priva
privatelink-file-core-wind...	1923306880-Yamaka...	llama3-finetune	(new) pri

for "Integrate with private DNS zones," select "Yes."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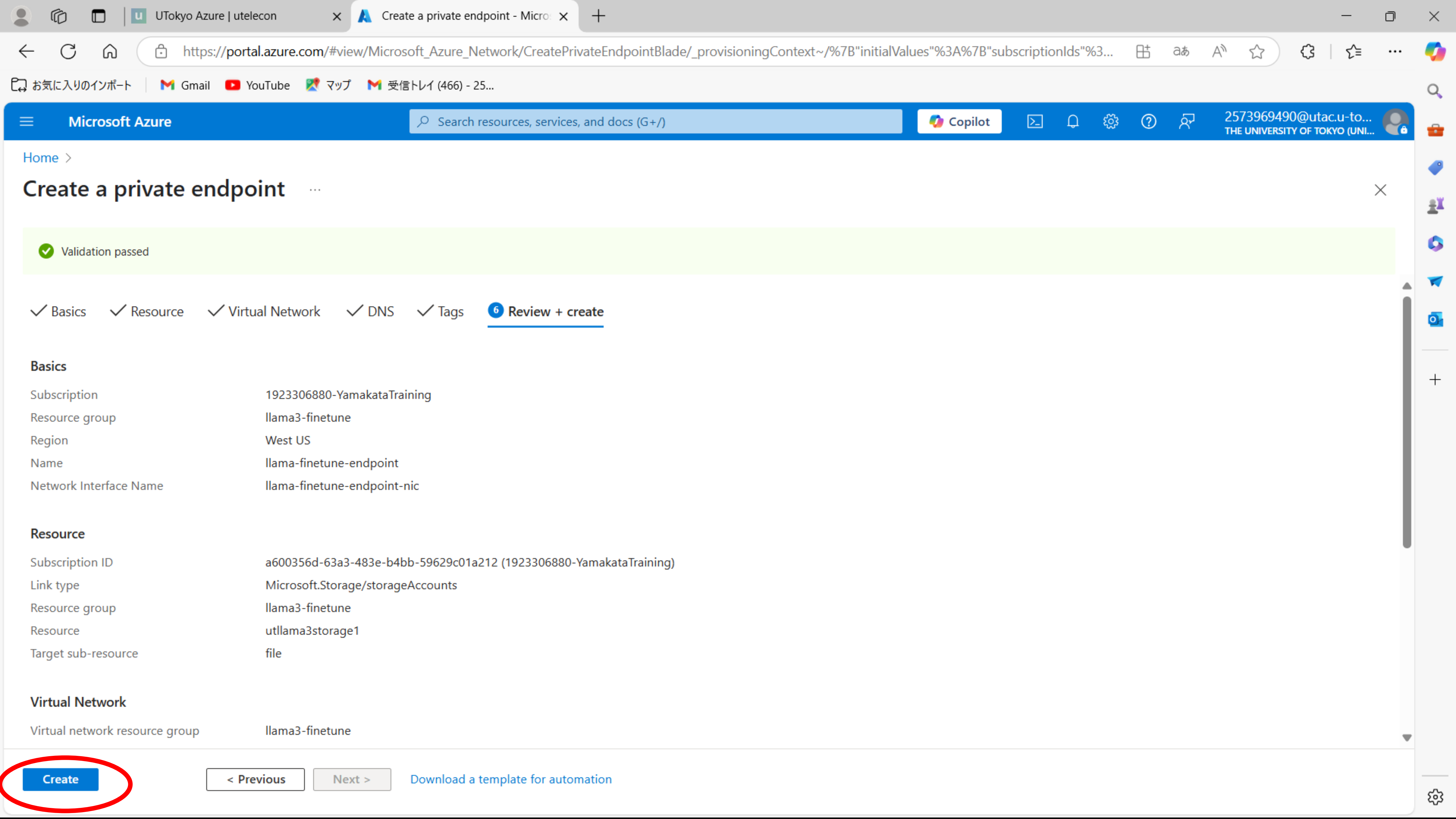
Home
✓ Basics
✓ Resource
✓ Virtual Network
✓ DNS
5 Tags
6 Review + create
< Previous
Next : Review + create >

Create a private endpoint

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name		Value	Resource
	:		2 selected



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✓ Validation passed

✓ Basics ✓ Resource ✓ Virtual Network ✓ DNS ✓ Tags 6 Review + create

Basics

Subscription	1923306880-YamakataTraining
Resource group	llama3-finetune
Region	West US
Name	llama-finetune-endpoint
Network Interface Name	llama-finetune-endpoint-nic

Resource

Subscription ID	a600356d-63a3-483e-b4bb-59629c01a212 (1923306880-YamakataTraining)
Link type	Microsoft.Storage/storageAccounts
Resource group	llama3-finetune
Resource	utllama3storage1
Target sub-resource	file

Virtual Network

Virtual network resource group	llama3-finetune

Create
< Previous
Next >
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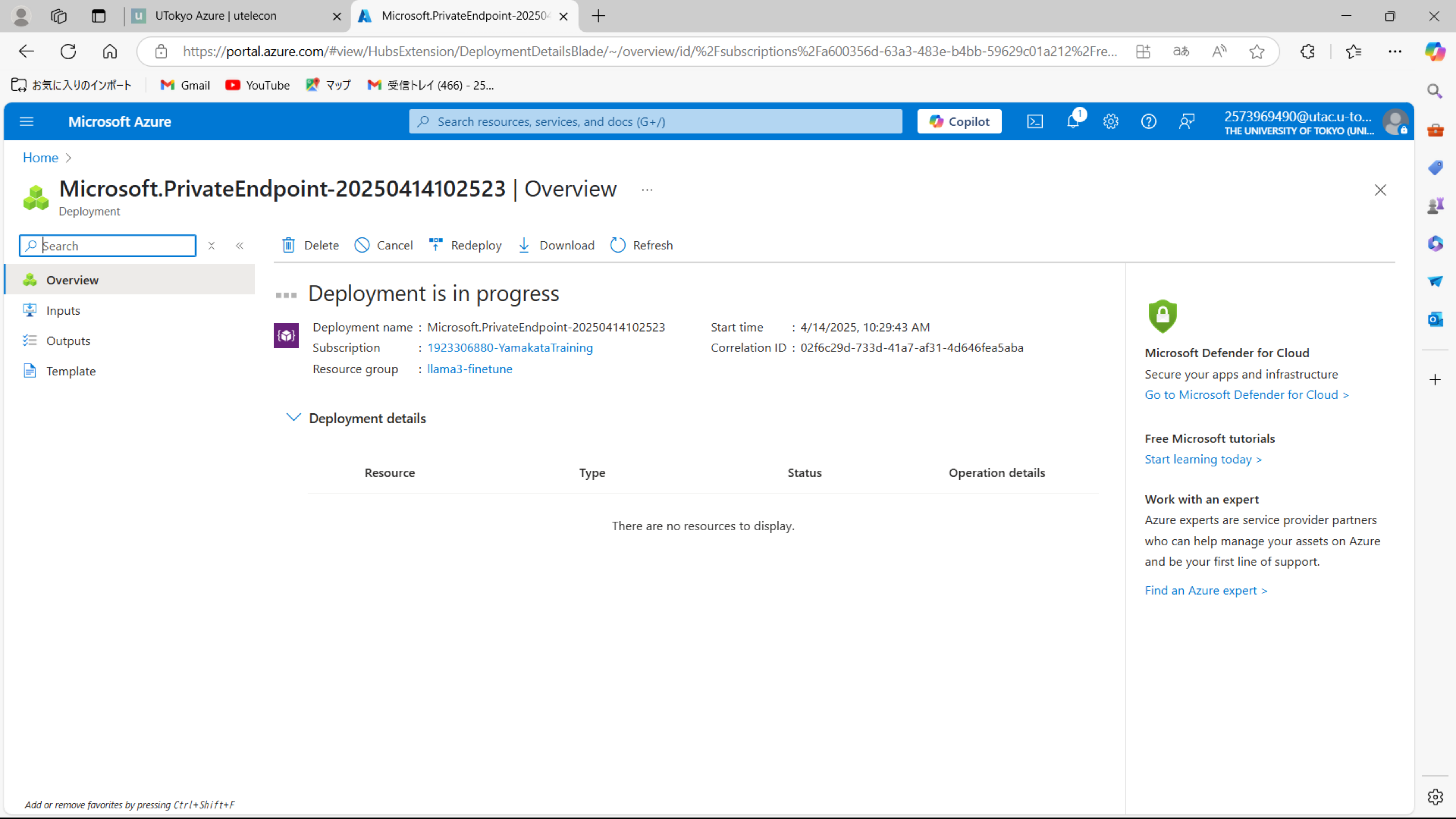
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Overview
Inputs
Outputs
Template
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Cancel
Redeploy
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Deployment

Deployment is in progress

Deployment name : Microsoft.PrivateEndpoint-20250414102523
Subscription : 1923306880-YamakataTraining
Resource group : llama3-finetune
Start time : 4/14/2025, 10:29:43 AM
Correlation ID : 02f6c29d-733d-41a7-af31-4d646fea5aba

Deployment details

Resource	Type	Status	Operation details

There are no resources to display.

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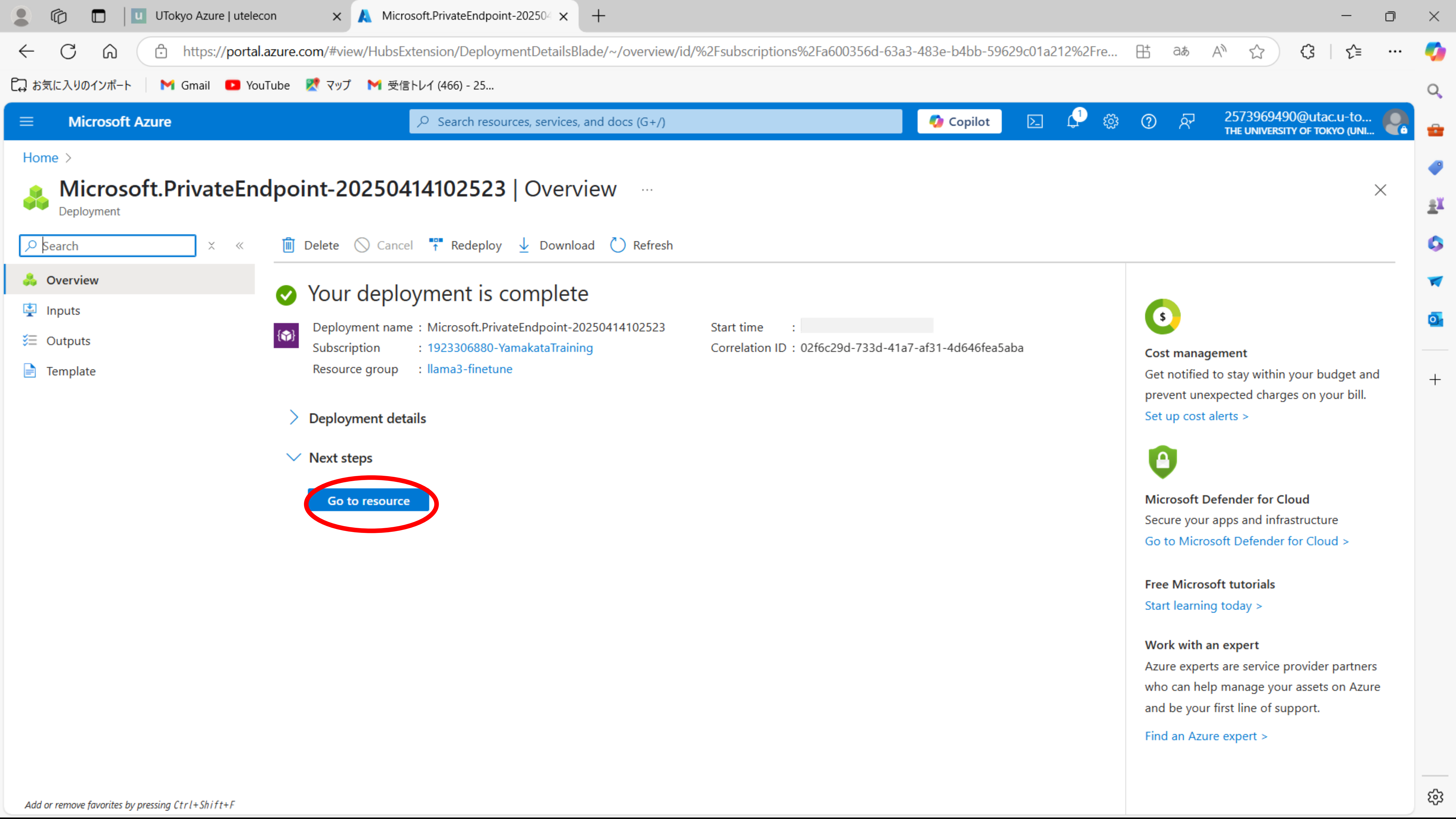
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Overview
Inputs
Outputs
Template
Delete
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Microsoft.PrivateEndpoint-20250414102523 | Overview

Deployment

Your deployment is complete

Deployment name : Microsoft.PrivateEndpoint-20250414102523
Subscription : 1923306880-YamakataTraining
Resource group : llama3-finetune
Start time : [redacted]
Correlation ID : 02f6c29d-733d-41a7-af31-4d646fea5aba

Deployment details

Next steps

Cost management

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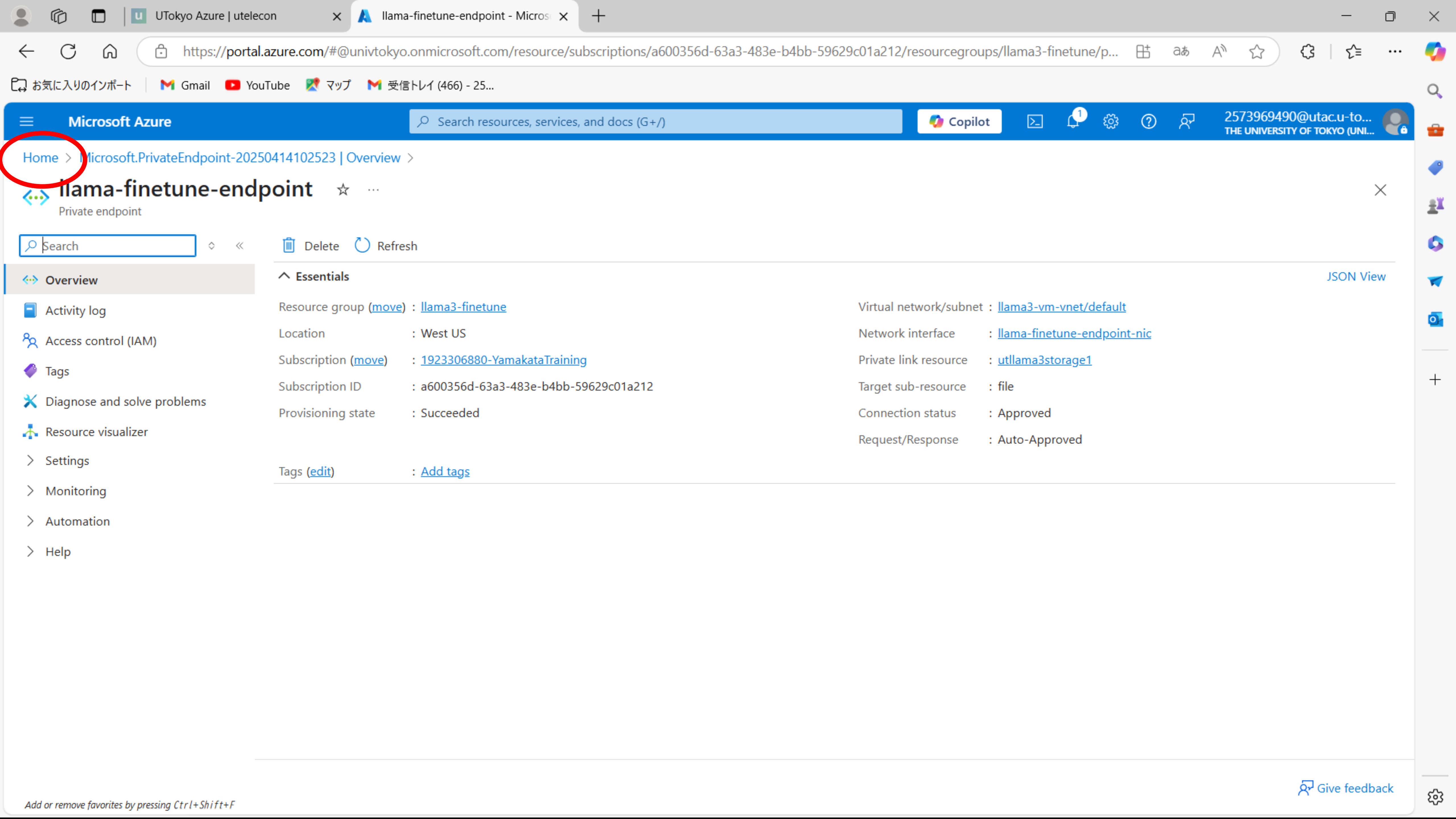
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Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Settings
Monitoring
Automation
Help
Delete
Refresh
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Home > Microsoft.PrivateEndpoint-20250414102523 | Overview >

llama-finetune-endpoint

Private endpoint

Resource group (move) : llama3-finetune

Location : West US

Subscription (move) : 1923306880-YamakataTraining

Subscription ID : a600356d-63a3-483e-b4bb-59629c01a212

Provisioning state : Succeeded

Virtual network/subnet : llama3-vm-vnet/default

Network interface : llama-finetune-endpoint-nic

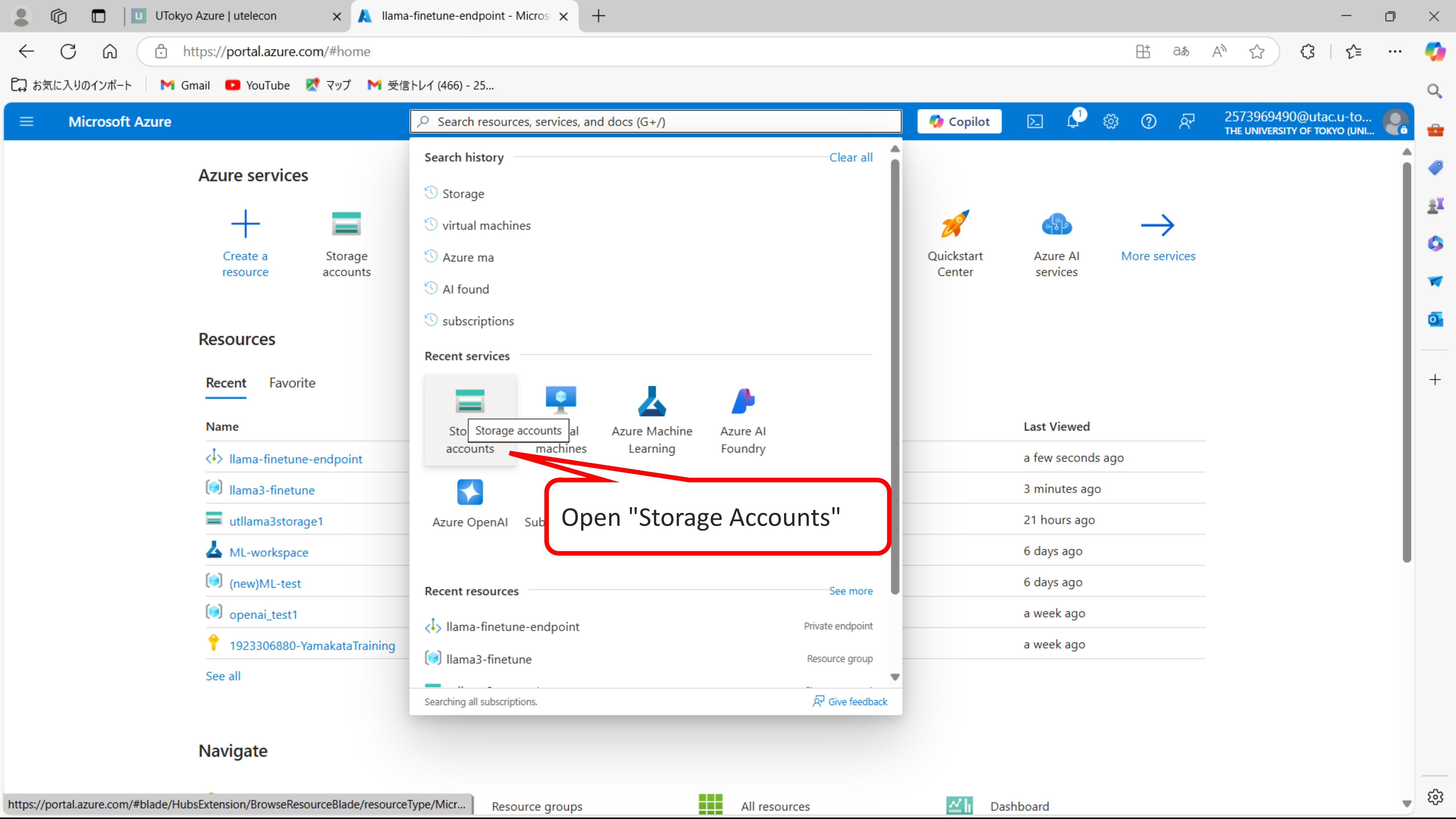
Private link resource : utllama3storage1

Target sub-resource : file

Connection status : Approved

Request/Response : Auto-Approved

Tags (edit) : Add tags



Open "Storage Accounts"

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Storage accounts
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More services
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Favorite
Name
llama-finetune-endpoint
llama3-finetune
utllama3storage1
ML-workspace
(new)ML-test
openai_test1
1923306880-YamakataTraining
See all
Last Viewed
a few seconds ago
3 minutes ago
21 hours ago
6 days ago
6 days ago
a week ago
a week ago
Search history
Clear all
Storage
virtual machines
Azure ma
AI found
subscriptions
Recent services
Storage accounts
Virtual machines
Azure Machine Learning
Azure AI Foundry
Azure OpenAI
Sub
Recent resources
See more
llama-finetune-endpoint
Private endpoint
llama3-finetune
Resource group
Searching all subscriptions.
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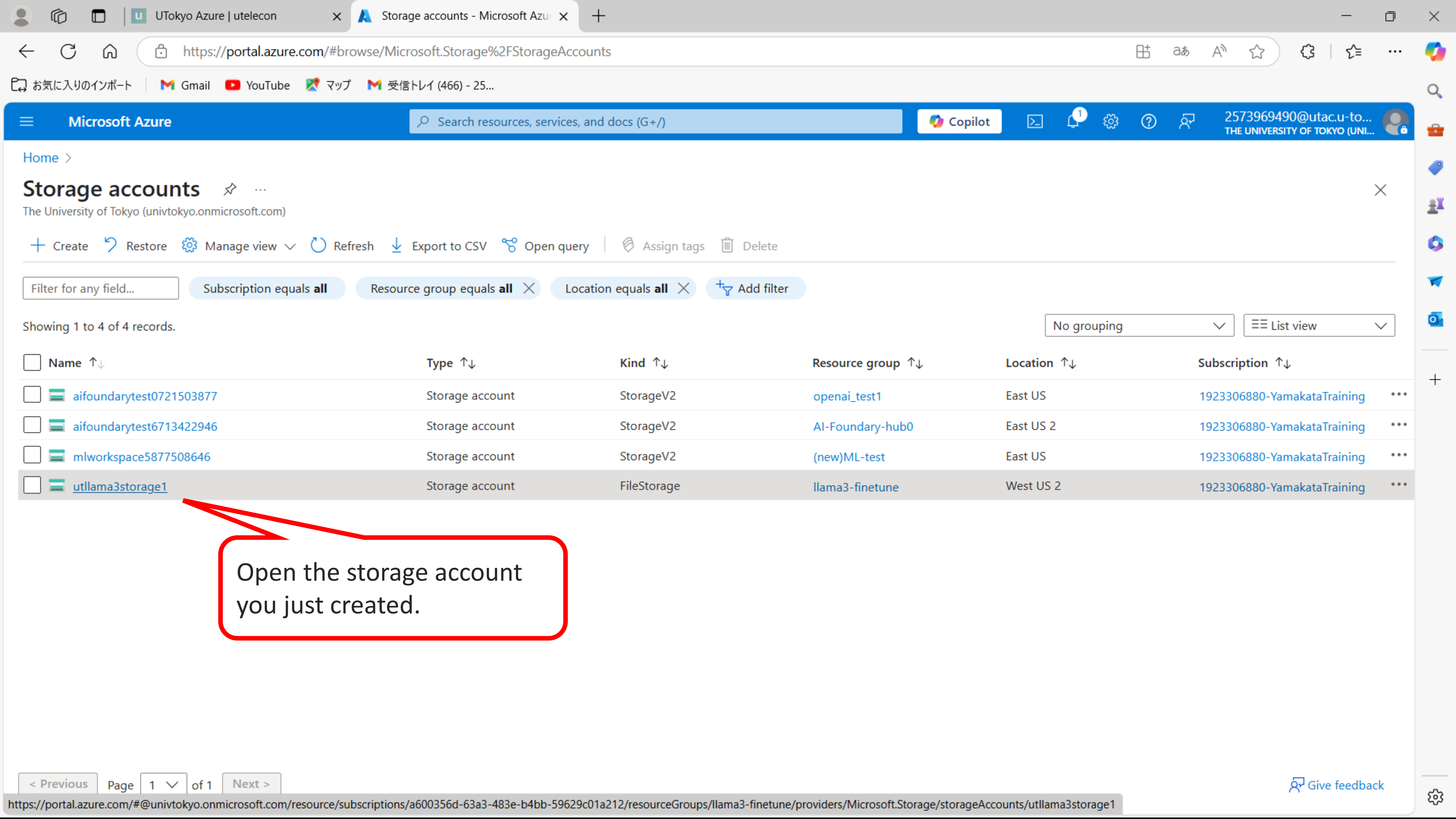
All resources
Dashboard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List view
< Previous
Page 1 of 1
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Storage accounts

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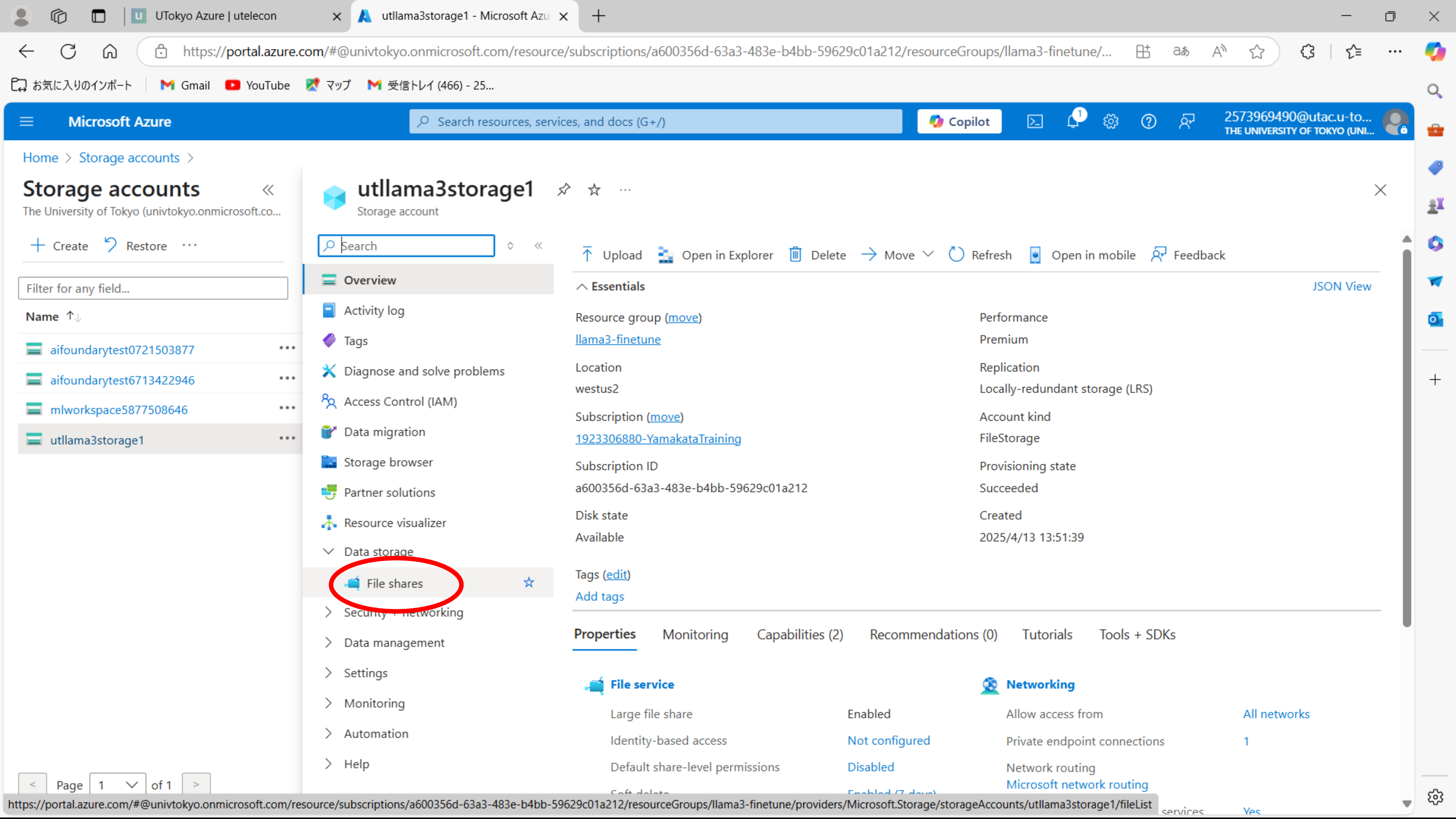
Subscription equals **all** | Resource group equals **all** | Location equals **all**

Showing 1 to 4 of 4 records.

Name	Type	Kind	Resource group	Location	Subscription
aifoundarytest0721503877	Storage account	StorageV2	openai_test1	East US	1923306880-YamakataTraining
aifoundarytest6713422946	Storage account	StorageV2	AI-Foundary-hub0	East US 2	1923306880-YamakataTraining
mlworkspace5877508646	Storage account	StorageV2	(new)ML-test	East US	1923306880-YamakataTraining
utllama3storage1	Storage account	FileStorage	llama3-finetune	West US 2	1923306880-YamakataTraining

Open the storage account you just created.

https://portal.azure.com/#@univtokyo.onmicrosoft.com/resource/subscriptions/a600356d-63a3-483e-b4bb-59629c01a212/resourceGroups/llama3-finetune/providers/Microsoft.Storage/storageAccounts/utllama3storage1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Home > Storage accounts >
Create
Restore
Filter for any field...
Name
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
Resource visualizer
Data storage
File shares
Security + networking
Data management
Settings
Monitoring
Automation
Help
Upload
Open in Explorer
Delete
Move
Refresh
Open in mobile
Feedback
Essentials
JSON View
Properties
Monitoring
Capabilities (2)
Recommendations (0)
Tutorials
Tools + SDKs
Page 1 of 1

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Storage accounts

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- aifoundarytest0721503877
- aifoundarytest6713422946
- mlworkspace5877508646
- utllama3storage1

utllama3storage1

Storage account

Resource group (move)	Performance
llama3-finetune	Premium
Location	Replication
westus2	Locally-redundant storage (LRS)
Subscription (move)	Account kind
1923306880-YamakataTraining	FileStorage
Subscription ID	Provisioning state
a600356d-63a3-483e-b4bb-59629c01a212	Succeeded
Disk state	Created
Available	2025/4/13 13:51:39

Tags (edit)

Add tags

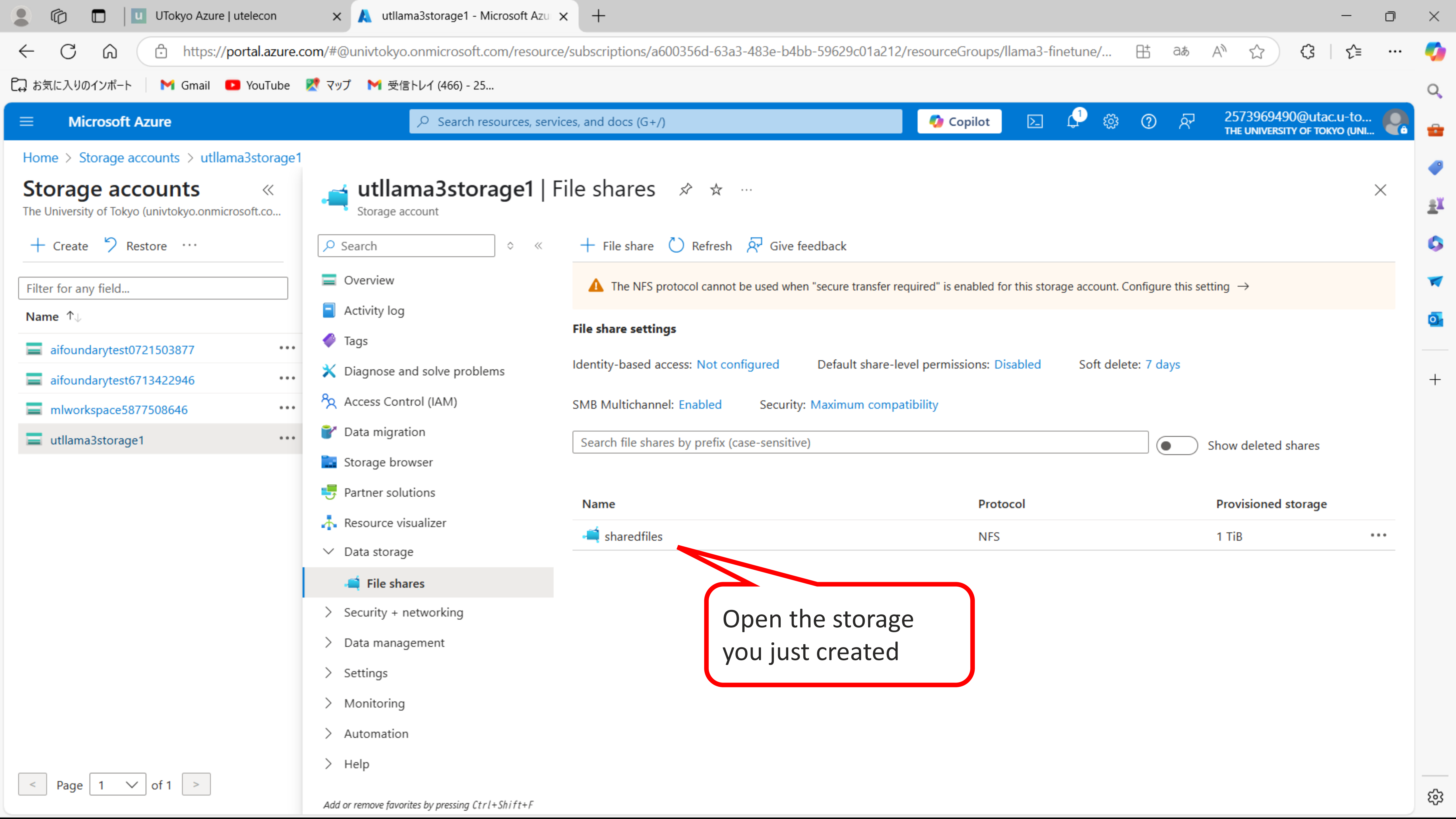
File service

Large file share	Enabled
Identity-based access	Not configured
Default share-level permissions	Disabled
Soft delete	Enabled (7 days)

Networking

Allow access from	All networks
Private endpoint connections	1
Network routing	Microsoft network routing
services	Yes

https://portal.azure.com/#@univtokyo.onmicrosoft.com/resource/subscriptions/a600356d-63a3-483e-b4bb-59629c01a212/resourceGroups/llama3-finetune/providers/Microsoft.Storage/storageAccounts/utllama3storage1/fileList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Create
Restore
Filter for any field...
Name
aifoundarytest0721503877
aifoundarytest6713422946
mlworkspace5877508646
utllama3storage1
Page 1 of 1
utllama3storage1 | File shares
Storage account
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
Resource visualizer
Data storage
File shares
Security + networking
Data management
Settings
Monitoring
Automation
Help
Add or remove favorites by pressing Ctrl+Shift+F
File share
Refresh
Give feedback

The NFS protocol cannot be used when "secure transfer required" is enabled for this storage account. Configure this setting →

File share settings

Identity-based access: Not configured

Default share-level permissions: Disabled

Soft delete: 7 days

SMB Multichannel: Enabled

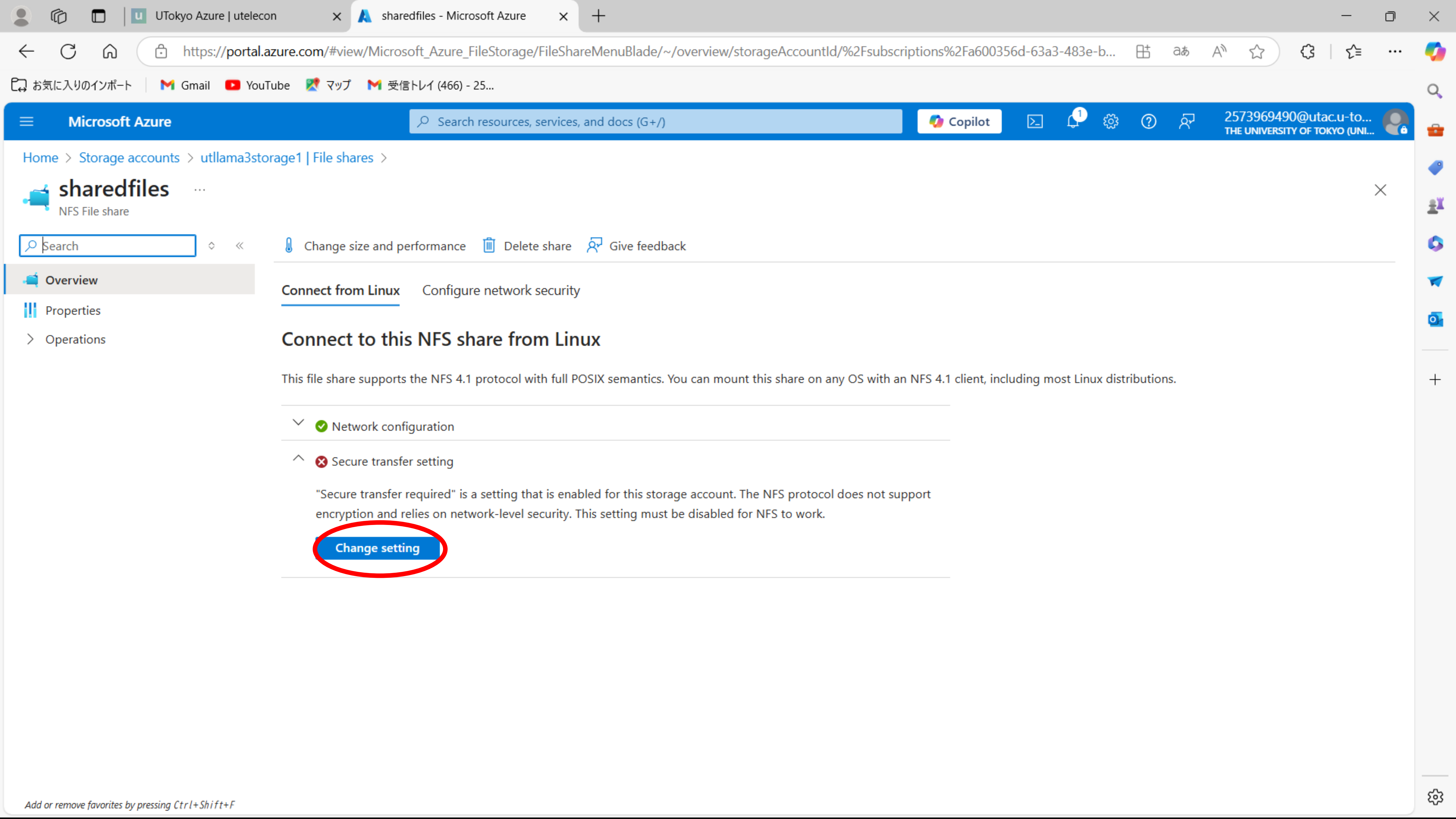
Security: Maximum compatibility

Search file shares by prefix (case-sensitive)

Show deleted shares

Name	Protocol	Provisioned storage
sharedfiles	NFS	1 TiB

Open the storage you just created



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THE UNIVERSITY OF TOKYO (UNI...
Home > Storage accounts > utllama3storage1 | File shares >
sharedfiles
NFS File share
Search
Overview
Properties
Operations
Change size and performance
Delete share
Give feedback
Connect from Linux
Configure network security
Network configuration
Secure transfer setting
Change setting
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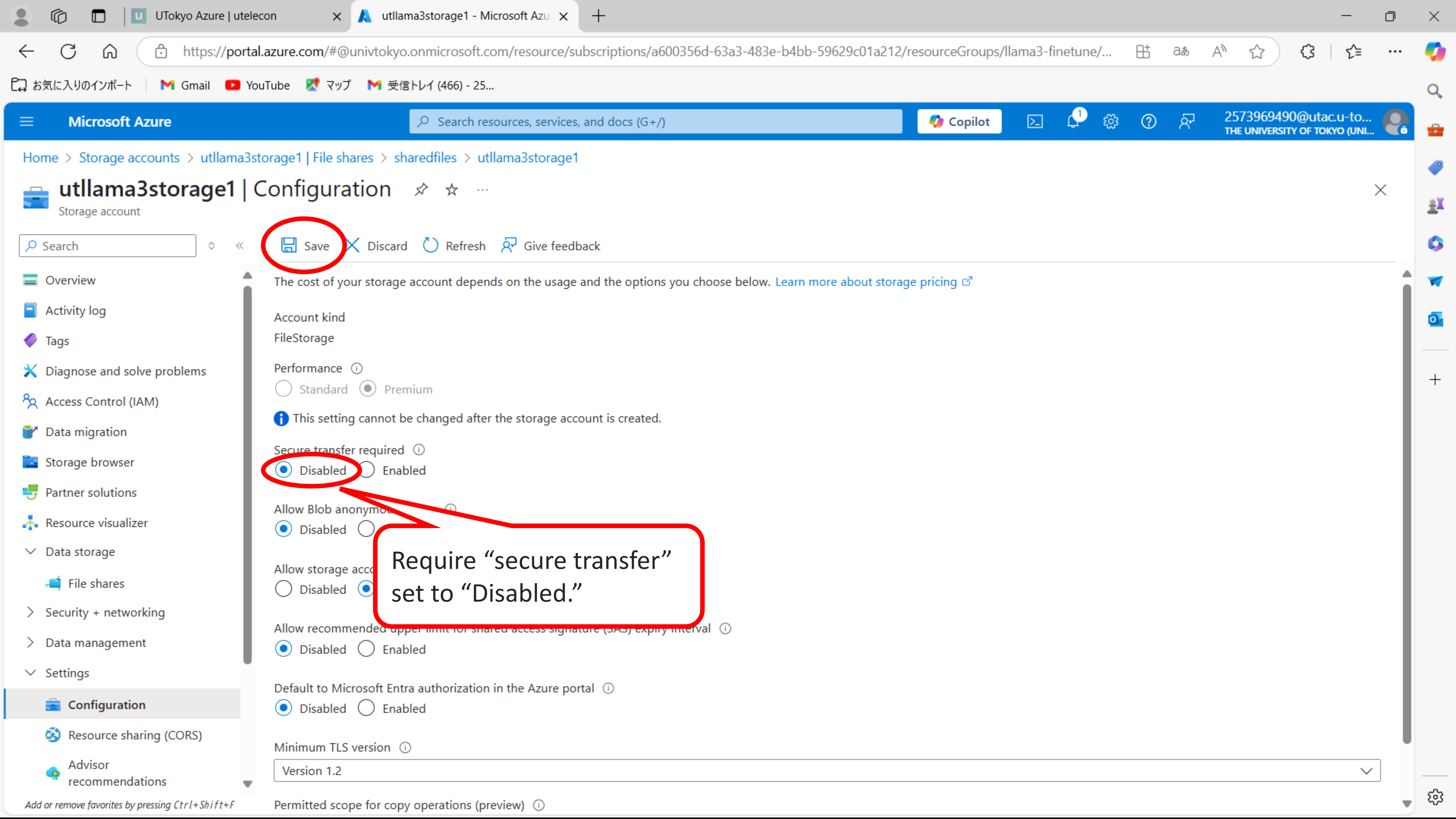
Connect to this NFS share from Linux

This file share supports the NFS 4.1 protocol with full POSIX semantics. You can mount this share on any OS with an NFS 4.1 client, including most Linux distributions.

"Secure transfer required" is a setting that is enabled for this storage account. The NFS protocol does not support encryption and relies on network-level security. This setting must be disabled for NFS to work.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Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
Resource visualizer
Data storage
File shares
Security + networking
Data management
Settings
Configuration
Resource sharing (CORS)
Advisor recommendations
Add or remove favorites by pressing Ctrl+Shift+F
Save
Discard
Refresh
Give feedback

utllama3storage1 | Configuration

Storage account

The cost of your storage account depends on the usage and the options you choose below. Learn more about storage pricing

Account kind

FileStorage

Performance

○ Standard ● Premium

This setting cannot be changed after the storage account is created.

Secure transfer required

● Disabled ○ Enabled

Allow Blob anonymo

● Disabled ○

Allow storage acc

○ Disabled ●

Allow recommended upper limit for shared access signature (SAS) expiry interval

● Disabled ○ Enabled

Default to Microsoft Entra authorization in the Azure portal

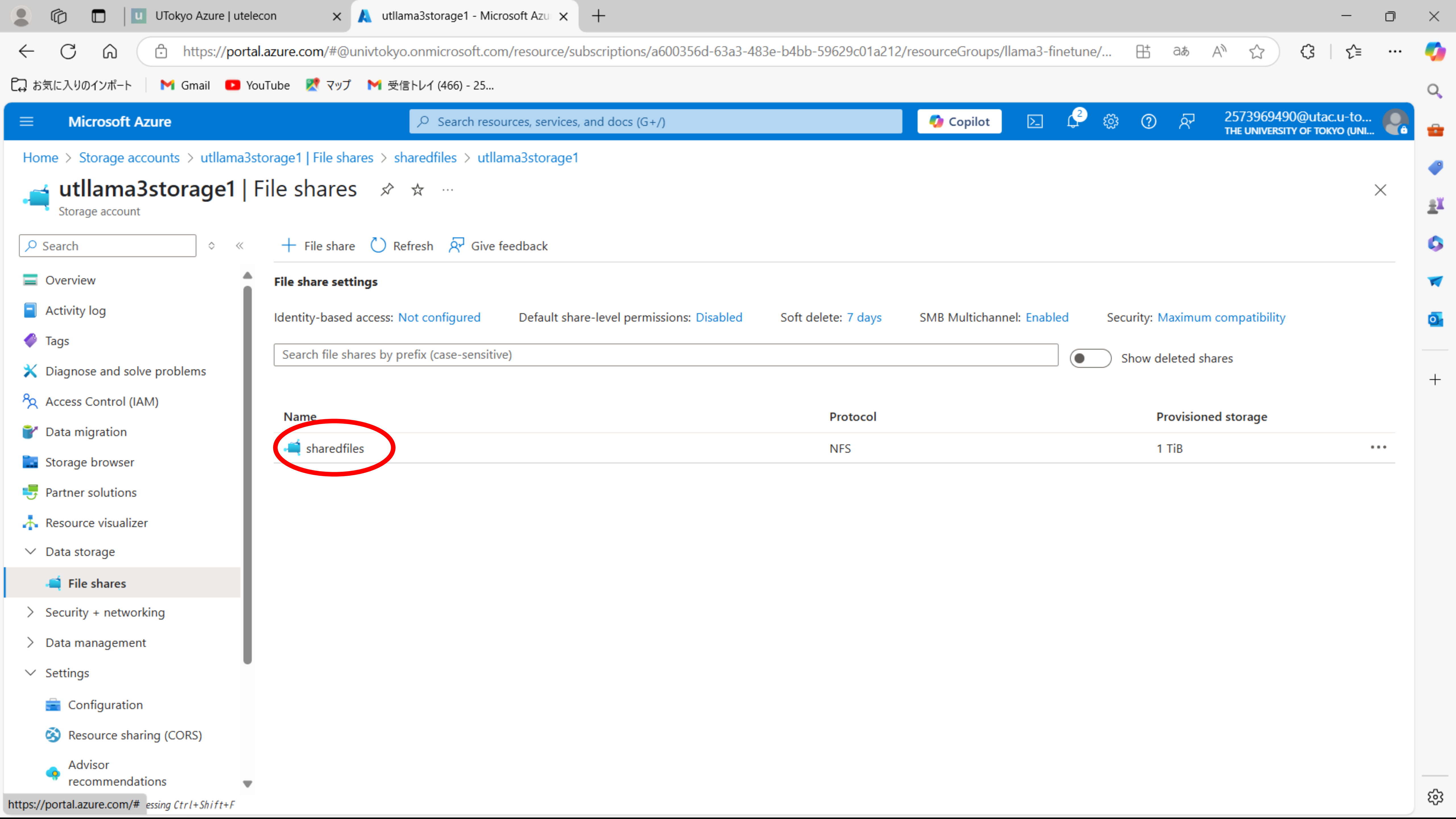
● Disabled ○ Enabled

Minimum TLS version

Version 1.2

Permitted scope for copy operations (preview)

Require “secure transfer” set to “Disabled.”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Storage account
Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Storage browser
Partner solutions
Resource visualizer
Data storage
File shares
Security + networking
Data management
Settings
Configuration
Resource sharing (CORS)
Advisor recommendations
+ File share
Refresh
Give feedback
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Show deleted shares
https://portal.azure.com/#
essing Ctrl+Shift+F

File share settings

Identity-based access: Not configured

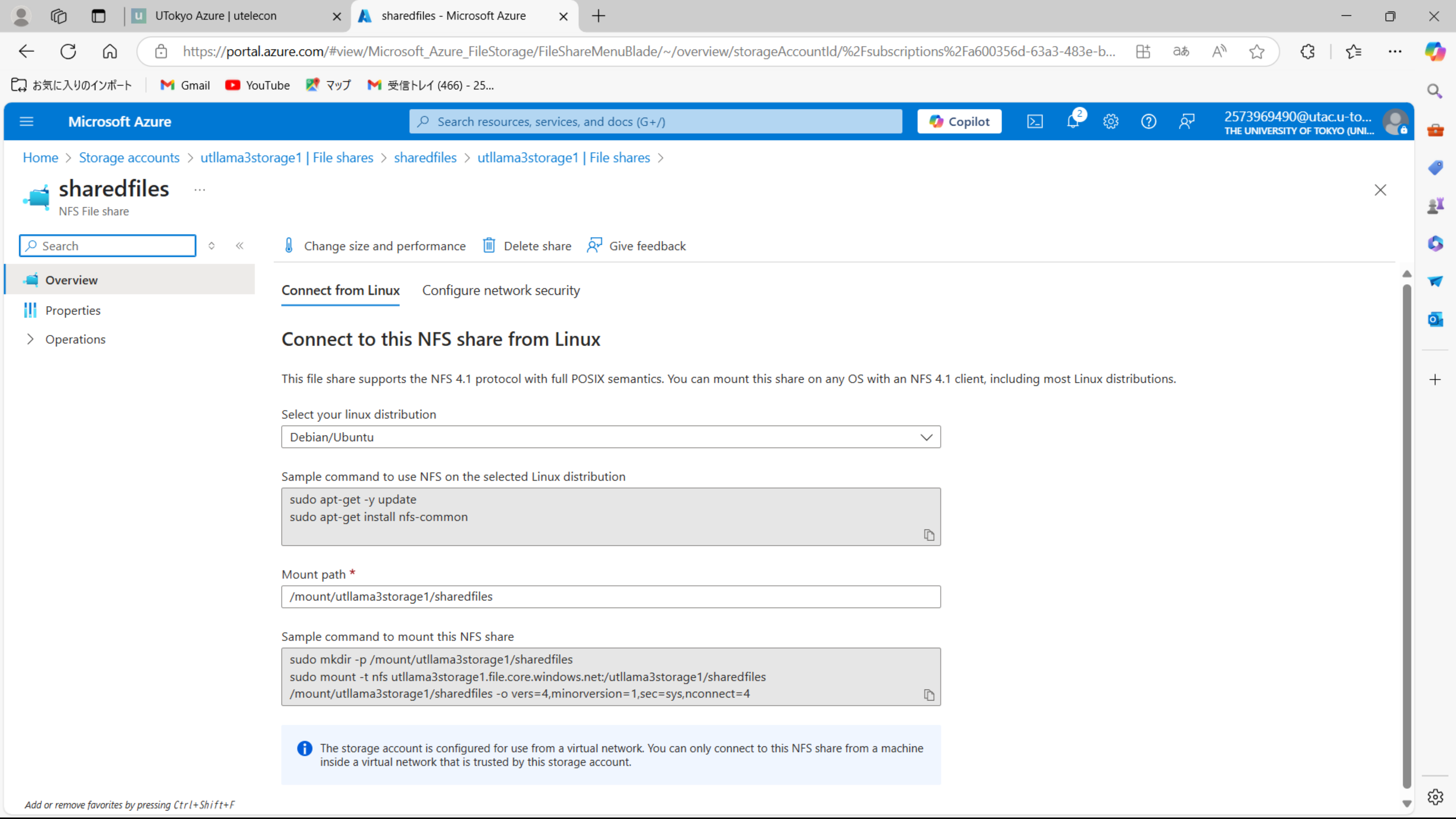
Default share-level permissions: Disabled

Soft delete: 7 days

SMB Multichannel: Enabled

Security: Maximum compatibility

Name	Protocol	Provisioned storage
sharedfiles	NFS	1 TiB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sharedfiles
NFS File share
Search
Change size and performance
Delete share
Give feedback
Overview
Properties
Operations
Connect from Linux
Configure network security
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Connect to this NFS share from Linux

This file share supports the NFS 4.1 protocol with full POSIX semantics. You can mount this share on any OS with an NFS 4.1 client, including most Linux distributions.

Select your linux distribution: Debian/Ubuntu

Sample command to use NFS on the selected Linux distribution

```
sudo apt-get -y update
sudo apt-get install nfs-common
```

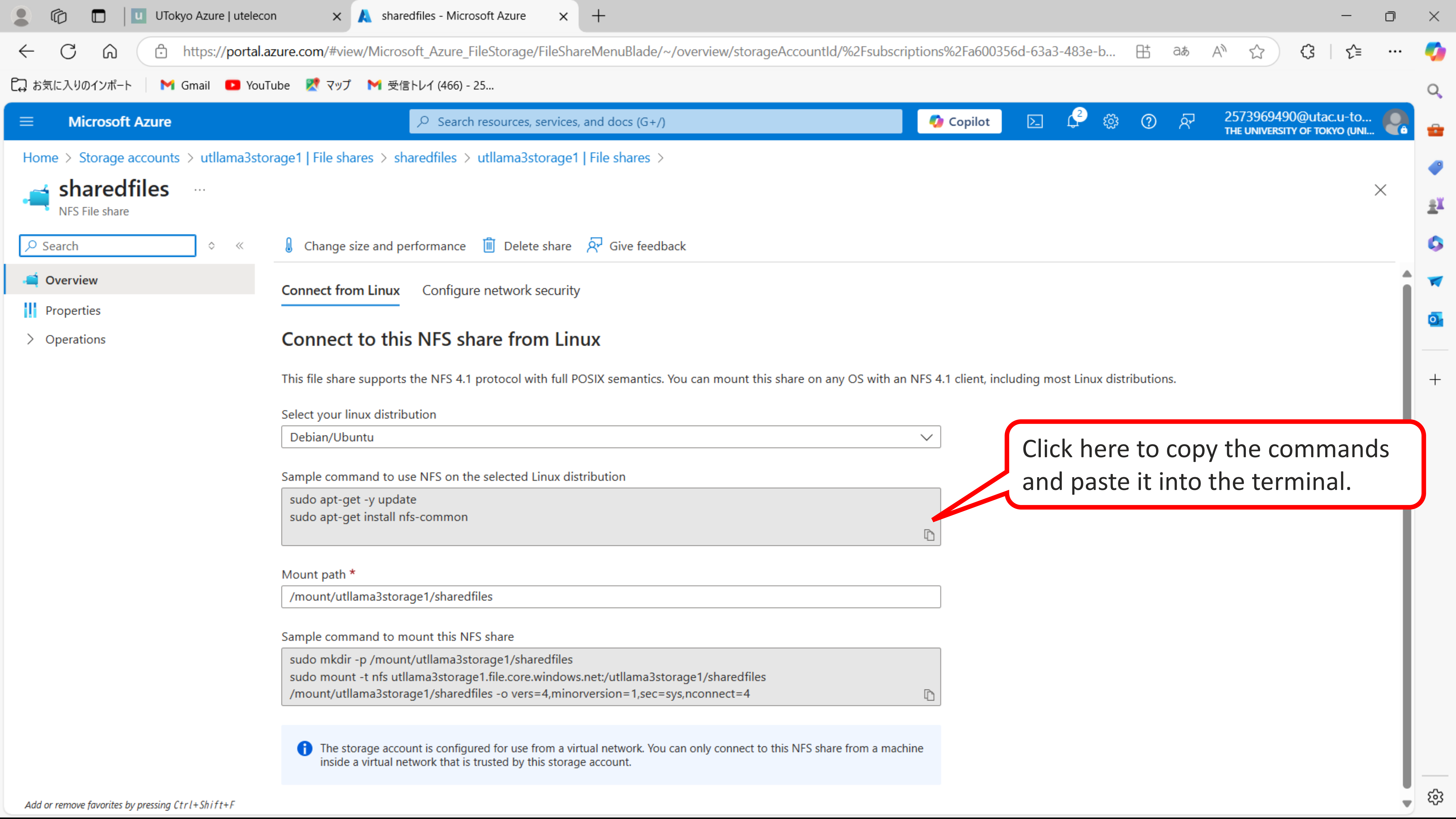
Mount path *: /mount/utllama3storage1/sharedfiles

Sample command to mount this NFS share

```
sudo mkdir -p /mount/utllama3storage1/sharedfiles
sudo mount -t nfs utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles
/mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,nconnect=4
```

The storage account is configured for use from a virtual network. You can only connect to this NFS share from a machine inside a virtual network that is trusted by this storage account.

4.3 **Mount** the file share from each virtual machine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Search
Overview
Properties
Operations
Change size and performance
Delete share
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```
sudo apt-get -y update
sudo apt-get install nfs-common
```

Mount path *: /mount/utllama3storage1/sharedfiles

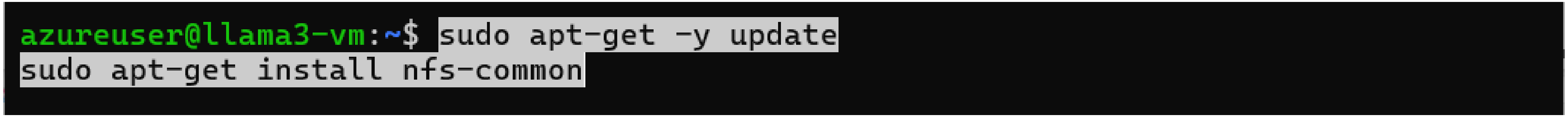
Sample command to mount this NFS share

```
sudo mkdir -p /mount/utllama3storage1/sharedfiles
sudo mount -t nfs utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles
/mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,nconnect=4
```

The storage account is configured for use from a virtual network. You can only connect to this NFS share from a machine inside a virtual network that is trusted by this storage account.

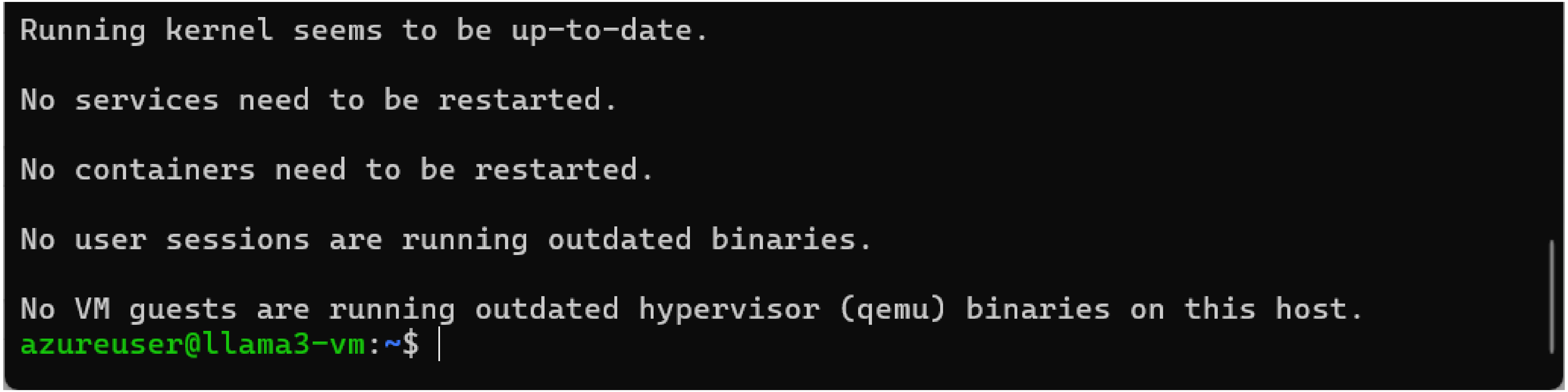
Click here to copy the commands and paste it into the terminal.

1. In **Windows PowerShell**, you can paste copied text by simply **right-clicking**.



```
azureuser@llama3-vm:~$ sudo apt-get -y update
sudo apt-get install nfs-common
```

2. Press **Enter** to run the command.
3. If you're prompted with **"Do you want to continue? [Y/n]"**, type **"Y"** and press Enter.



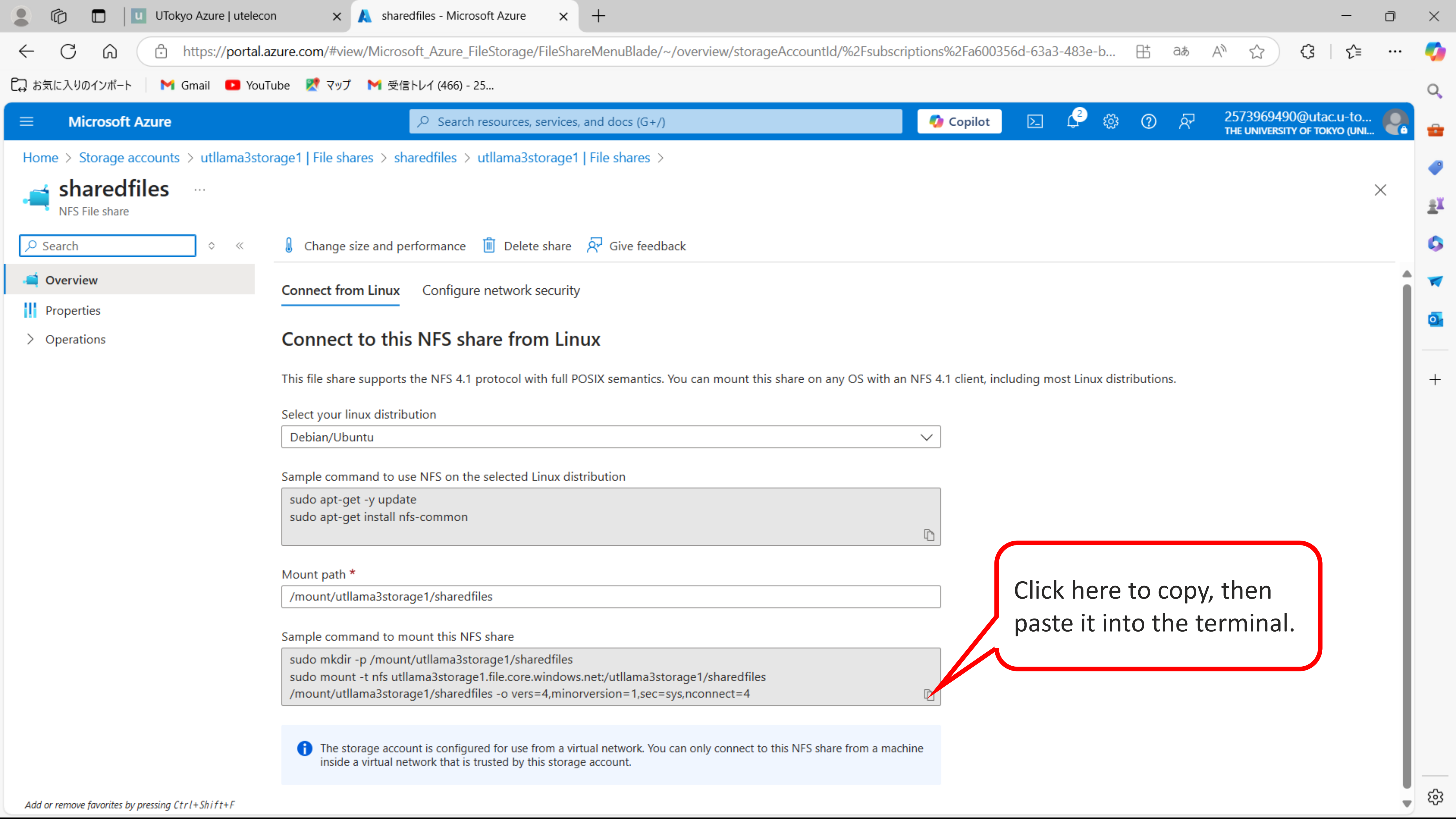
```
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
azureuser@llama3-vm:~$ 
```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sharedfiles
NFS File share
Search
Overview
Properties
Operations
Change size and performance
Delete share
Give feedback
Connect from Linux
Configure network security
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```
sudo apt-get -y update
sudo apt-get install nfs-common
```

Mount path *: /mount/utllama3storage1/sharedfiles

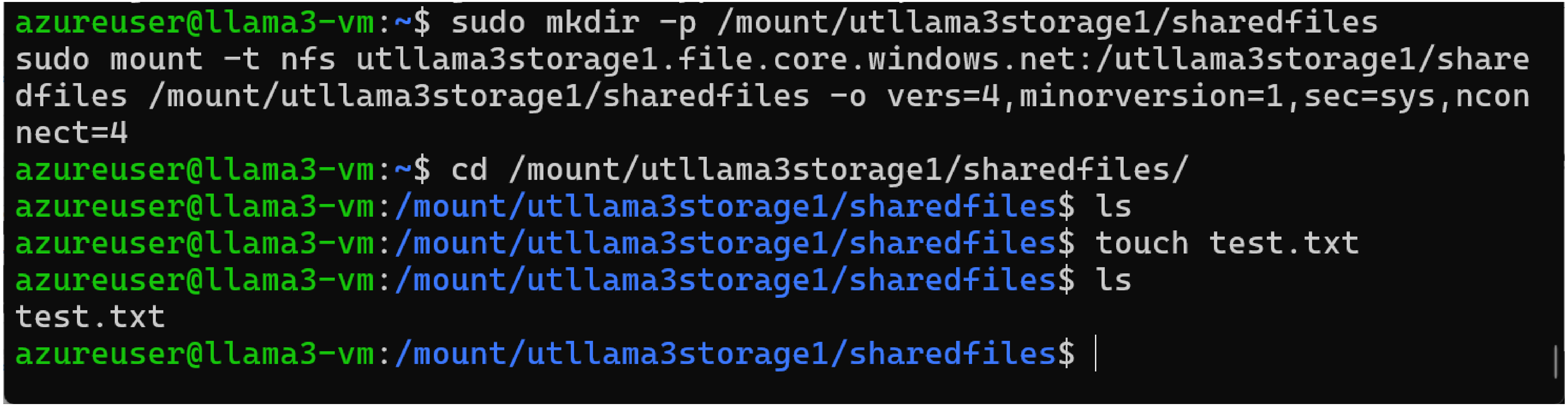
Sample command to mount this NFS share

```
sudo mkdir -p /mount/utllama3storage1/sharedfiles
sudo mount -t nfs utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles
/mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,nconnect=4
```

The storage account is configured for use from a virtual network. You can only connect to this NFS share from a machine inside a virtual network that is trusted by this storage account.

Click here to copy, then paste it into the terminal.

- After you run the command, the shared file will be mounted (connected) to this virtual machine.
- The mount point will be:”/mount/[storage account name]/[file share name]”
- In the example below:”/mount/utllama3storage1/sharedfiles”



```
azureuser@llama3-vm:~$ sudo mkdir -p /mount/utllama3storage1/sharedfiles
sudo mount -t nfs utllama3storage1.file.core.windows.net:/utllama3storage1/share
dfiles /mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,ncon
nect=4
azureuser@llama3-vm:~$ cd /mount/utllama3storage1/sharedfiles/
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ ls
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ touch test.txt
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ ls
test.txt
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ 
```

- The command starting with “sudo mount -t nfs [...]” must be run every time the virtual machine is restarted.
- To enable automatic mounting, you need to edit the “/etc/fstab” file.

4.4 Configure automatic mounting on reboot

Editing “/etc/fstab”

Reference: Mount an NFS share using /etc/fstab

Add the following line to the end of “/etc/fstab”

- Insert one single line (no line breaks) as shown below:

```
[storage_account_name].file.core.windows.net:/[storage_account_name]/[share_name] /mount/[storage_account_name]/[share_name]  nfs vers=4,minorversion=1,_netdev,nofail,sec=sys  0  0
```

- In this example, it is as follows

```
utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles /mount/utllama3storage1/sharedfiles nfs vers=4,minorversion=1,_netdev,nofail,sec=sys 0 0
```

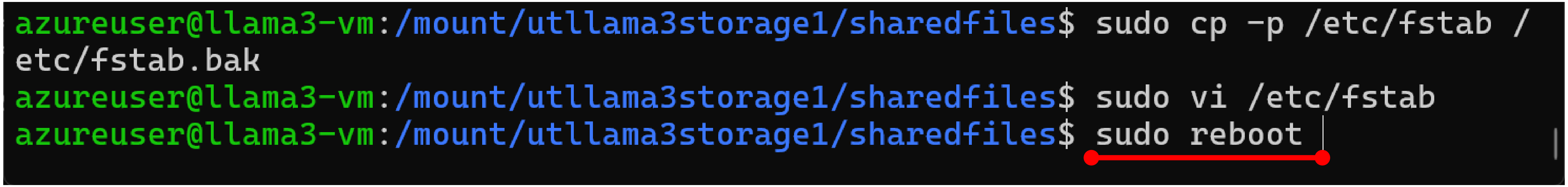
Editing “/etc/fstab” with the vi Editor

1. To avoid issues, make a backup copy before editing:
   (If /etc/fstab is misconfigured, the VM may fail to boot.)
   ```
   sudo cp -p /etc/fstab /etc/fstab.bak
   ```
2. Prepare the line to insert
   Create the line in a text editor (like Notepad), so you can copy and paste it easily.
   Example to add:
   ```
   utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles /mount/utllama3storage1/sharedfiles nfs vers=4,minorversion=1,_netdev,nofail,sec=sys 0 0
   ```
3. Open the editor
   ```
   sudo vi /etc/fstab
   ```
4. Move the cursor to the bottom of the file
5. Press o to create a new line (you should see -- INSERT -- at the bottom left)
6. Right-click to paste the line (on WindowsOS)
7. Press Esc to exit insert mode
8. Type :wq to save and exit (w = write, q = quit)

If you make a mistake, press Esc and type ":q!" to exit without saving changes

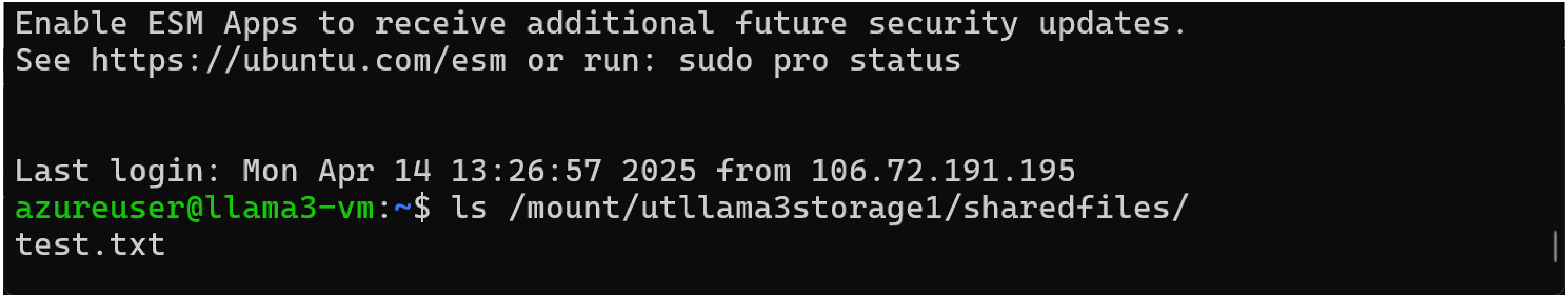
Reboot the VM

- After restarting the virtual machine using the command “sudo reboot”, the file share is still visible when reconnecting.



```
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ sudo cp -p /etc/fstab /
etc/fstab.bak
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ sudo vi /etc/fstab
azureuser@llama3-vm:/mount/utllama3storage1/sharedfiles$ sudo reboot
```

Reboot and log-in again

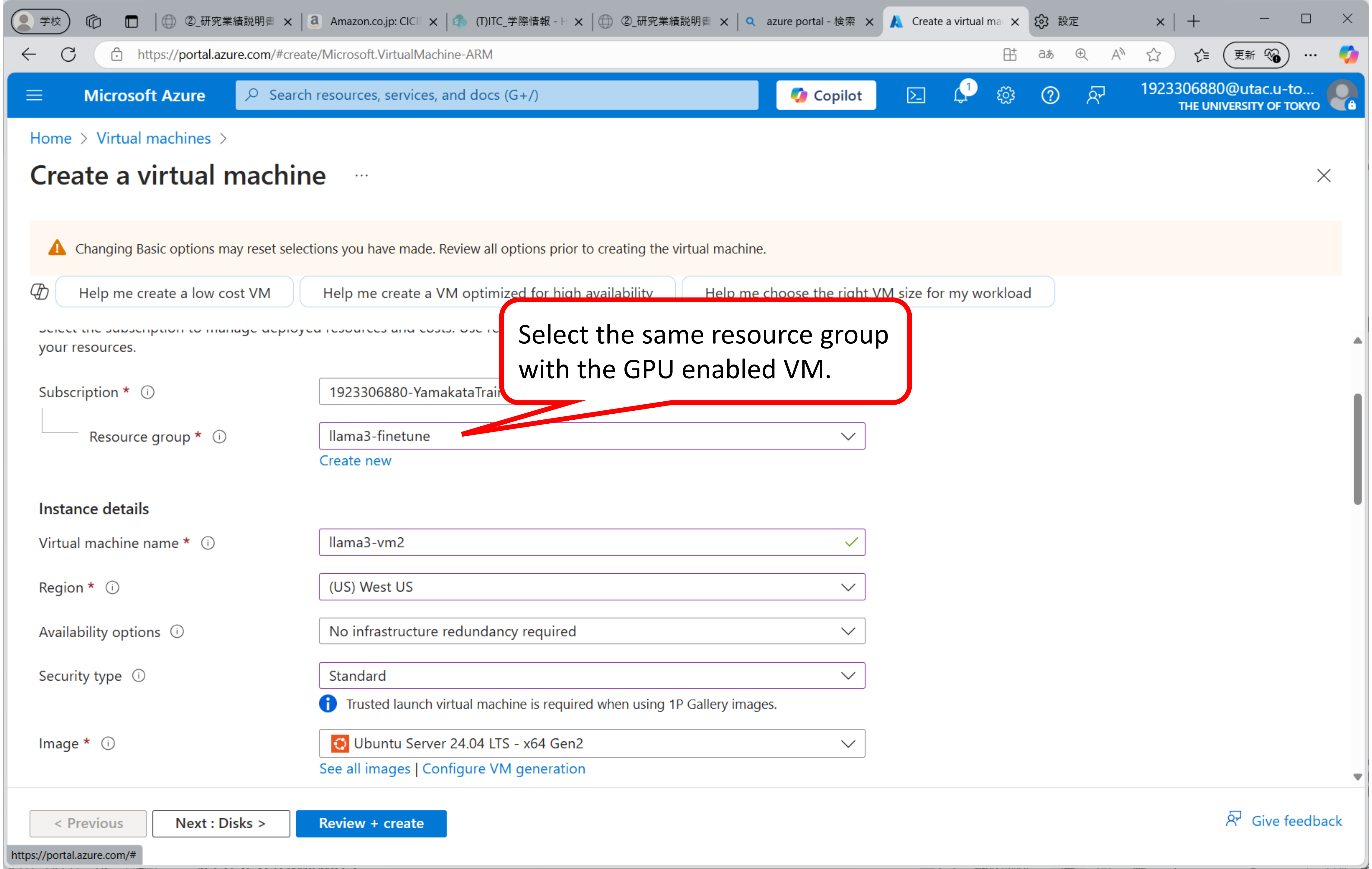


```
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


Last login: Mon Apr 14 13:26:57 2025 from 106.72.191.195
azureuser@llama3-vm:~$ ls /mount/utllama3storage1/sharedfiles/
test.txt
```

4.5 Verify that all virtual machines can read and write to the same file share

Create a virtual machine with vCPUs only, and mount the file share from there.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Create a virtual machine

Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload

Select the same resource group with the GPU enabled VM.

your resources.

Subscription * : 1923306880-YamakataTrai

Resource group * : llama3-finetune

Create new

Instance details

Virtual machine name * : llama3-vm2 ✓

Region * : (US) West US

Availability options : No infrastructure redundancy required

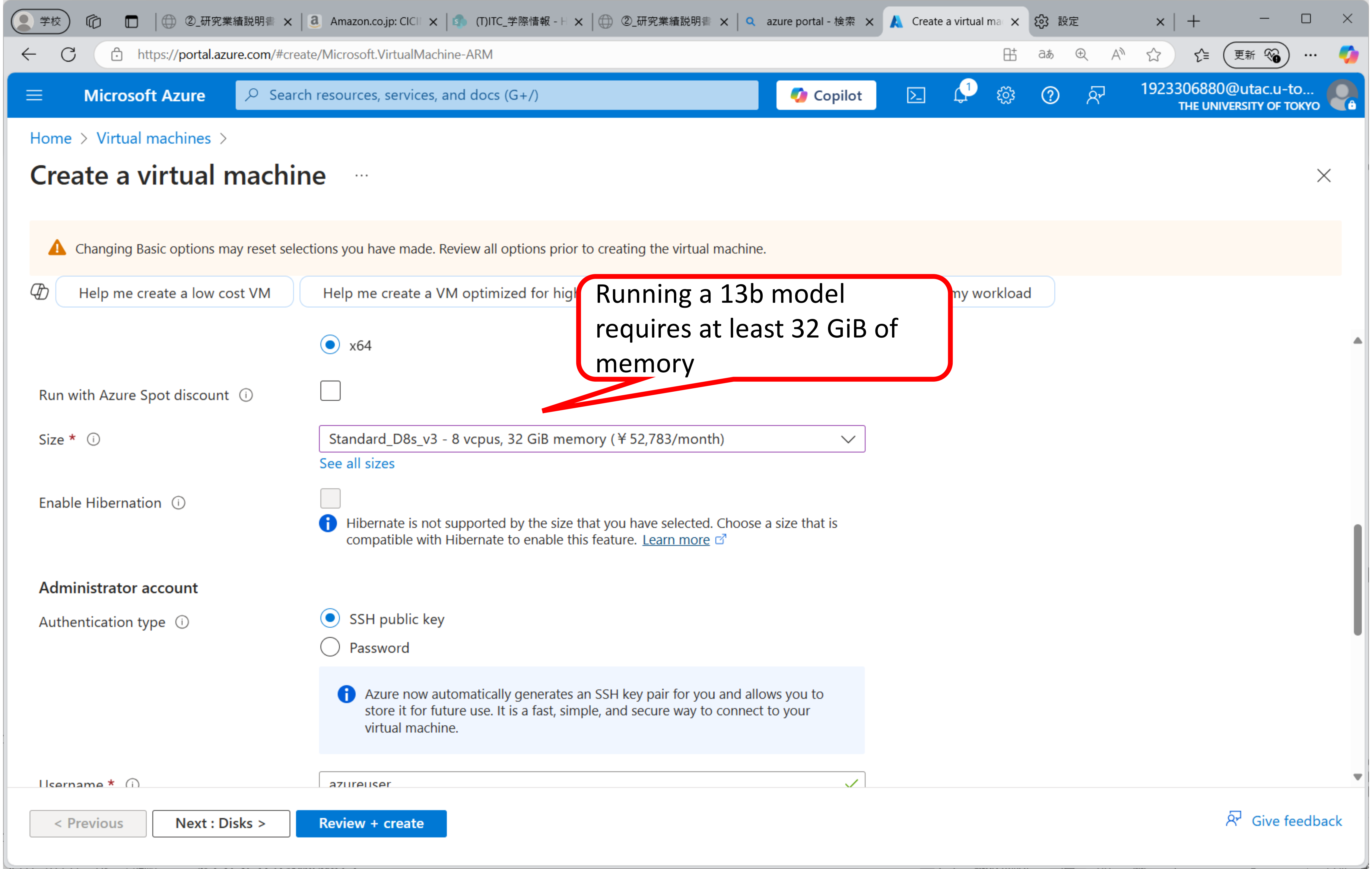
Security type : Standard

Trusted launch virtual machine is required when using 1P Gallery images.

Image * : Ubuntu Server 24.04 LTS - x64 Gen2

See all images | Configure VM generation

< Previous
Next : Disks >
Review + create
Give feedback
https://portal.azure.com/#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Help me create a VM optimized for high
my workload

Running a 13b model requires at least 32 GiB of memory

● x64

Run with Azure Spot discount ☐

Size * : Standard_D8s_v3 - 8 vcpus, 32 GiB memory (￥52,783/month)

See all sizes

Enable Hibernation ☐

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more

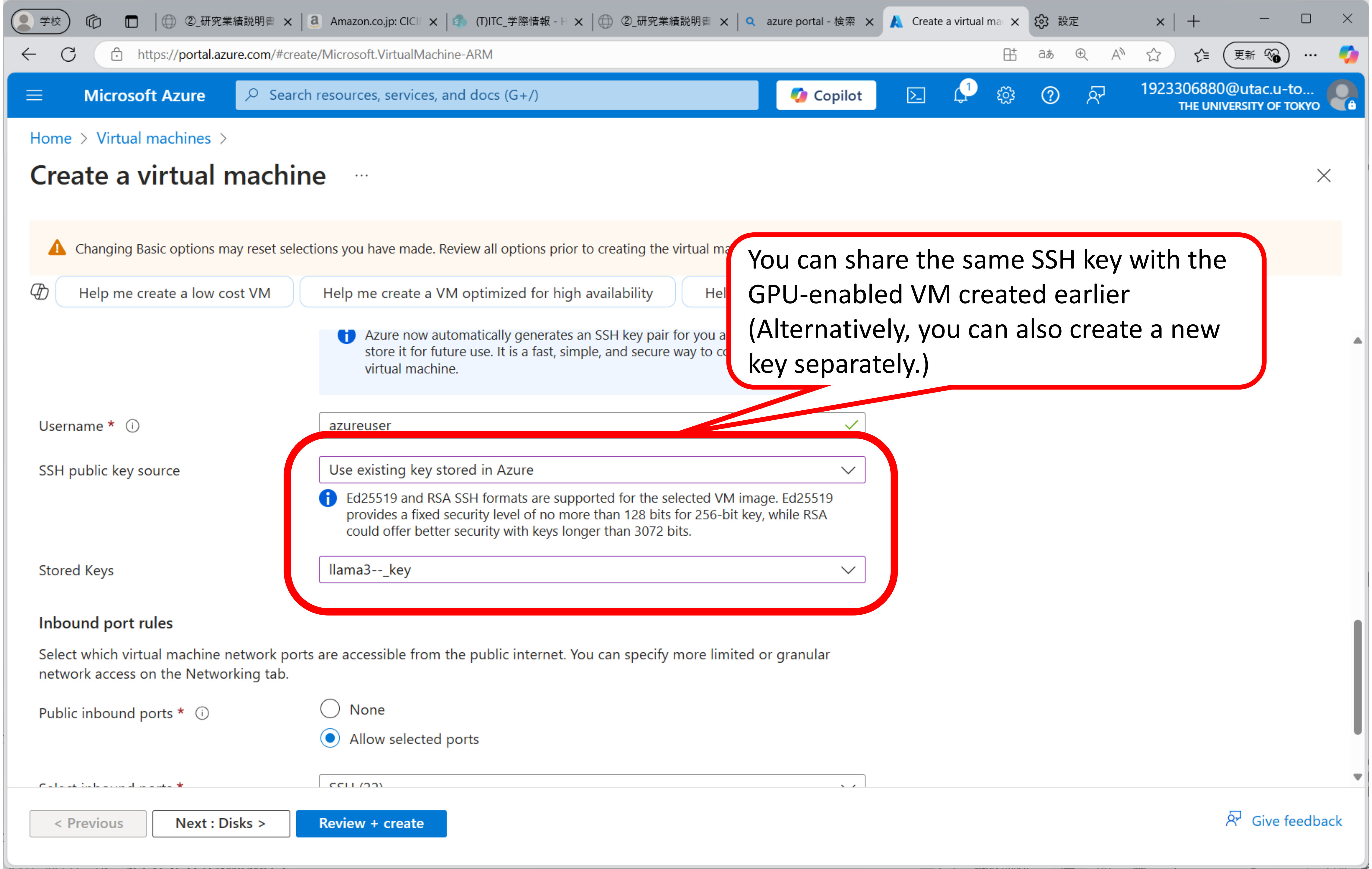
Administrator account

Authentication type
● SSH public key
○ Password

Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username * : azureuser

< Previous
Next : Disks >
Review + create
Give feedback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Help me create a low cost VM
Help me create a VM optimized for high availability
Hel

Azure now automatically generates an SSH key pair for you a
store it for future use. It is a fast, simple, and secure way to co
virtual machine.

Username * azureuser

SSH public key source: Use existing key stored in Azure

Ed25519 and RSA SSH formats are supported for the selected VM image. Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.

Stored Keys: llama3--_key

Inbound port rules

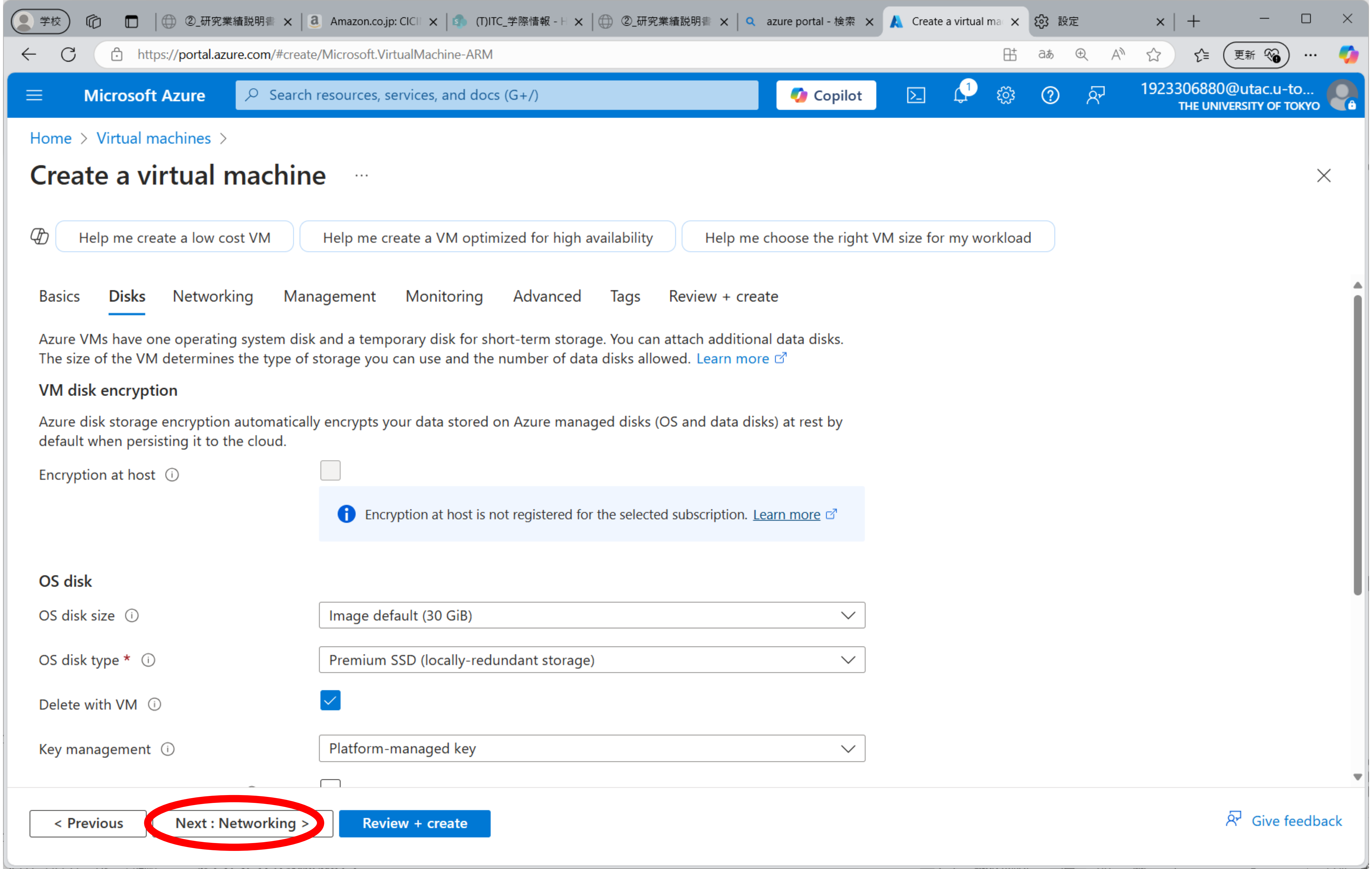
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports *
○ None
● Allow selected ports

Select inbound ports * SSH (22)

< Previous
Next : Disks >
Review + create
Give feedback

You can share the same SSH key with the GPU-enabled VM created earlier (Alternatively, you can also create a new key separately.)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Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
< Previous
Next : Networking >
Review + create
Give feedback

Create a virtual machine

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ☐

Encryption at host is not registered for the selected subscription. Learn more

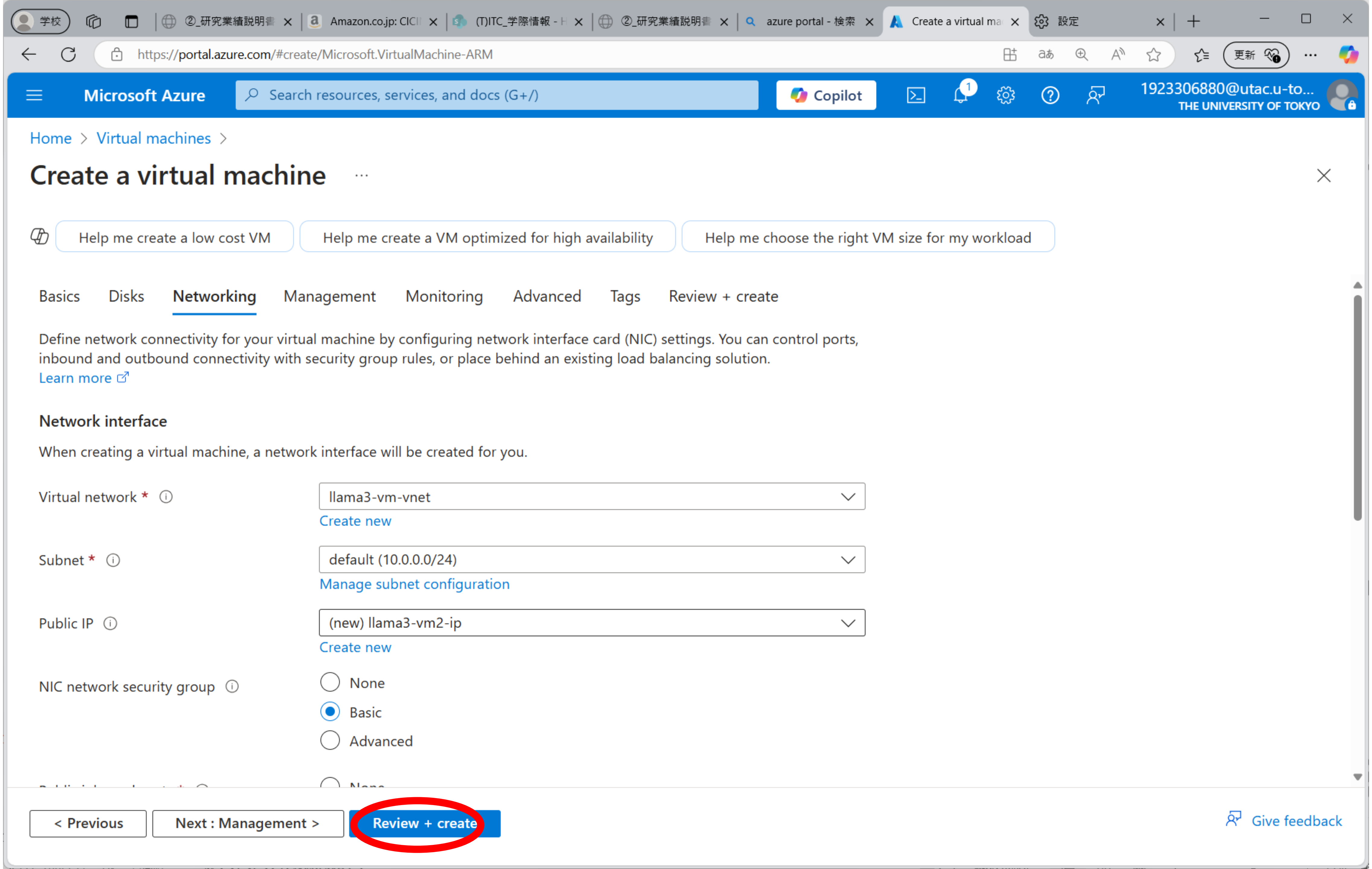
OS disk

OS disk size: Image default (30 GiB)

OS disk type *: Premium SSD (locally-redundant storage)

Delete with VM ☑

Key management: Platform-managed key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THE UNIVERSITY OF TOKYO
Home > Virtual machines >

Create a virtual machine

Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.
Learn more

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * : llama3-vm-vnet

Create new

Subnet * : default (10.0.0.0/24)

Manage subnet configuration

Public IP : (new) llama3-vm2-ip

Create new

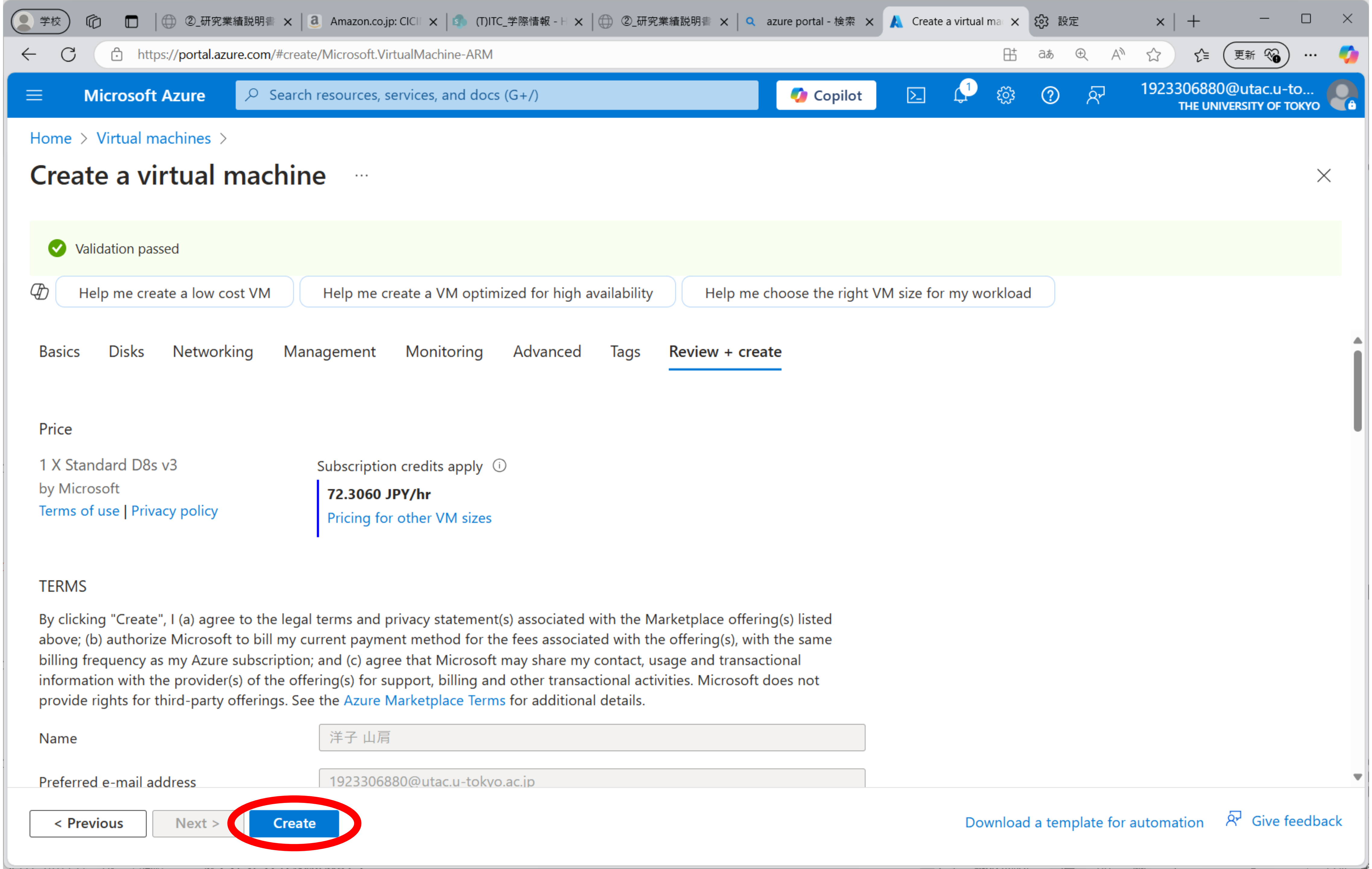
NIC network security group

○ None

● Basic

○ Advanced

< Previous
Next : Management >
Review + create
Give feedback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Copilot
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THE UNIVERSITY OF TOKYO
Home > Virtual machines >
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
< Previous
Next >
Create
Download a template for automation
Give feedback

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Create a virtual machine

Validation passed

Price

1 X Standard D8s v3
by Microsoft
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Subscription credits apply

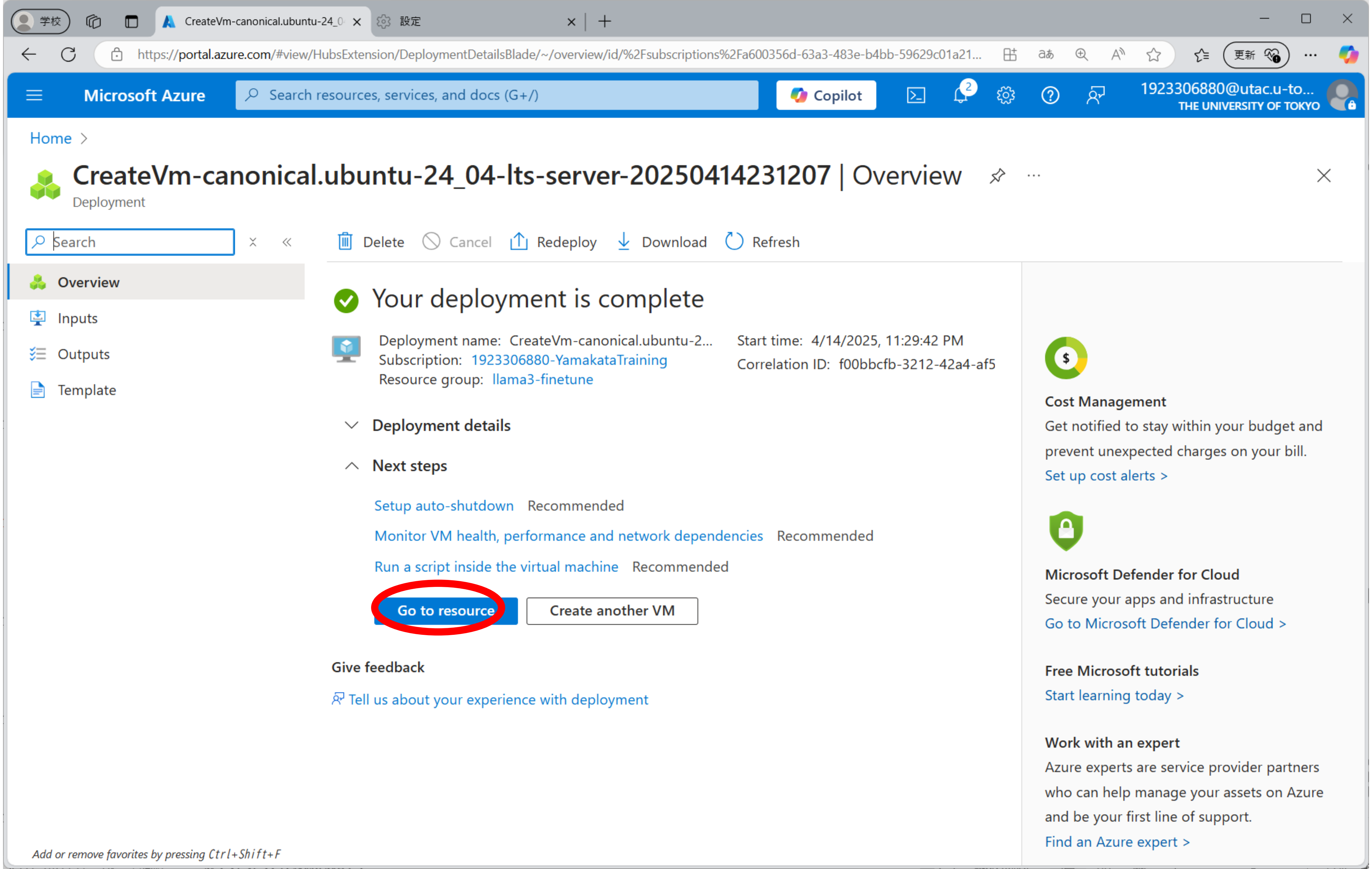
72.3060 JPY/hr
Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

Name: 洋子 山肩

Preferred e-mail address: 1923306880@utac.u-tokyo.ac.jp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CreateVm-canonical.ubuntu-24_0
設定
https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fa600356d-63a3-483e-b4bb-59629c01a21...
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Copilot
2
1923306880@utac.u-to...
THE UNIVERSITY OF TOKYO
Home
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment details
Next steps
Go to resource
Create another VM
Give feedback

CreateVm-canonical.ubuntu-24_04-lts-server-20250414231207 | Overview

Deployment

Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-2...
Subscription: 1923306880-YamakataTraining
Resource group: llama3-finetune

Start time: 4/14/2025, 11:29:42 PM
Correlation ID: f00bbcfb-3212-42a4-af5

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

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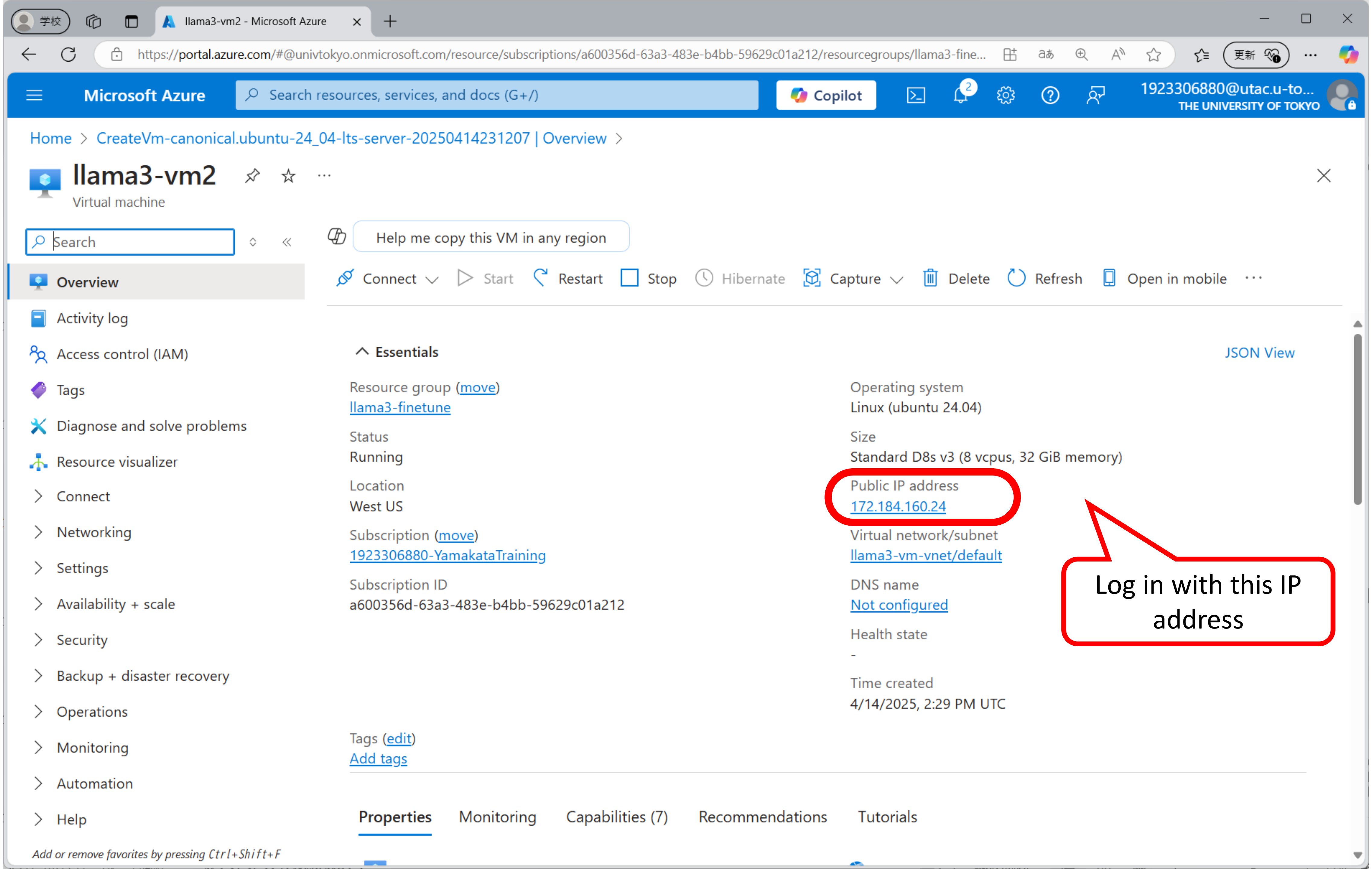
llama3-vm2 - Microsoft Azure
https://portal.azure.com/#@univtokyo.onmicrosoft.com/resource/subscriptions/a600356d-63a3-483e-b4bb-59629c01a212/resourcegroups/llama3-fine...
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Copilot
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Home
CreateVm-canonical.ubuntu-24_04-lts-server-20250414231207 | Overview
llama3-vm2
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Add or remove favorites by pressing Ctrl+Shift+F
Help me copy this VM in any region
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Essentials
JSON View
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials

Resource group (move)
llama3-finetune

Status
Running

Location
West US

Subscription (move)
1923306880-YamakataTraining

Subscription ID
a600356d-63a3-483e-b4bb-59629c01a212

Tags (edit)
Add tags

Operating system
Linux (ubuntu 24.04)

Size
Standard D8s v3 (8 vcpus, 32 GiB memory)

Public IP address
172.184.160.24

Virtual network/subnet
llama3-vm-vnet/default

DNS name
Not configured

Health state
-

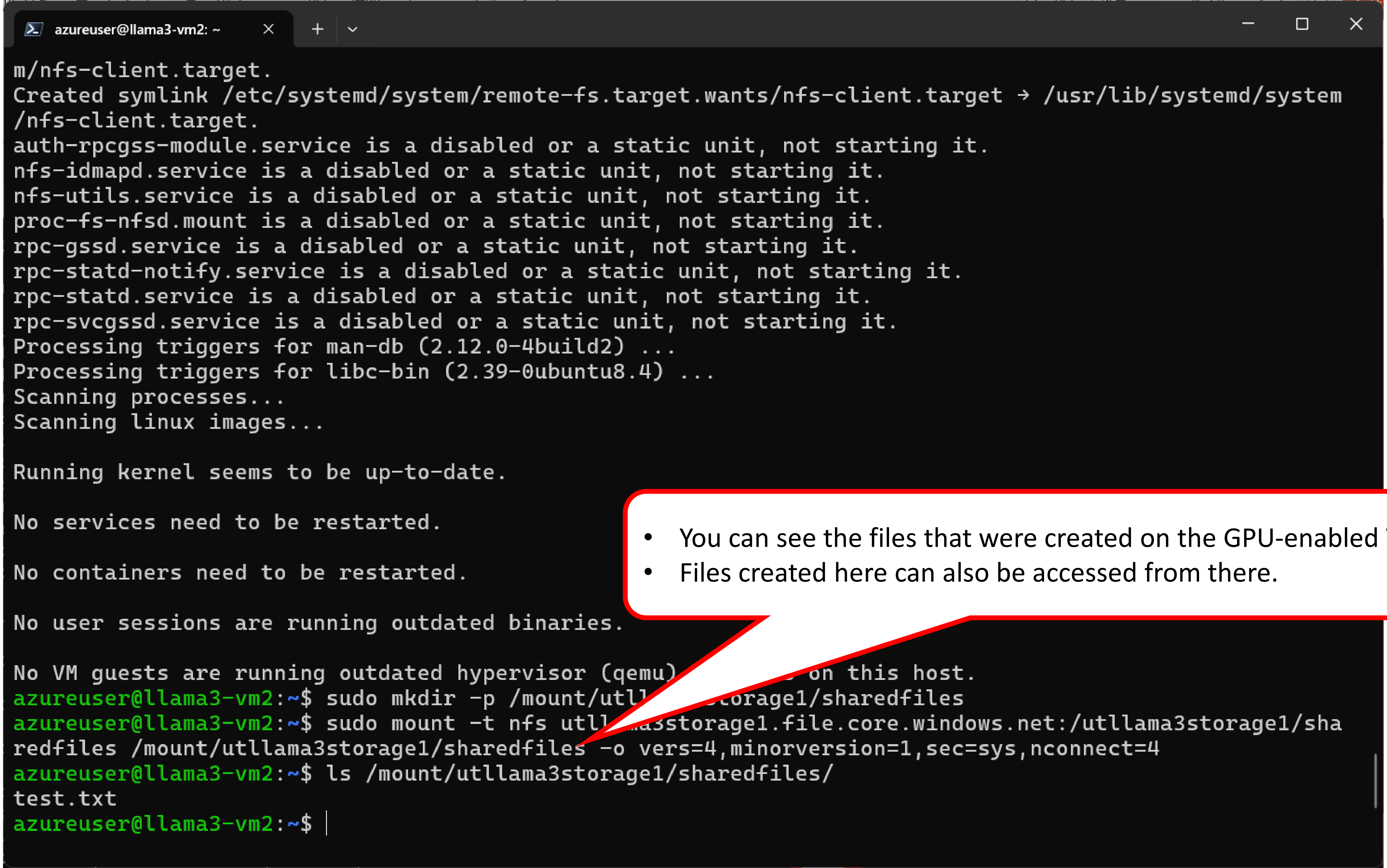
Time created
4/14/2025, 2:29 PM UTC

Log in with this IP address

Configure the same settings as a VM with a GPU.

1. Remote login with ssh
   ```
   ssh -i .¥.ssh¥llama3--_key.pem azureuser@172.184.160.24
   ```
2. Execute the same command as a VM with GPU
   1. `sudo apt-get -y update`
   2. `sudo apt-get install nfs-common`
   3. `sudo mkdir -p /mount/utllama3storage1/sharedfiles`

   4.
      ```
      sudo mount -t nfs utllama3storage1.file.core.windows.net:/utllama3storage1/sharedfiles /mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,nconnect=4
      ```
3. If you want to mount automatically even after rebooting, add "etc/fstab" as well as VM with GPU



```
m/nfs-client.target.
Created symlink /etc/systemd/system/remote-fs.target.wants/nfs-client.target → /usr/lib/systemd/system
/nfs-client.target.
auth-rpcgss-module.service is a disabled or a static unit, not starting it.
nfs-idmapd.service is a disabled or a static unit, not starting it.
nfs-utils.service is a disabled or a static unit, not starting it.
proc-fs-nfsd.mount is a disabled or a static unit, not starting it.
rpc-gssd.service is a disabled or a static unit, not starting it.
rpc-statd-notify.service is a disabled or a static unit, not starting it.
rpc-statd.service is a disabled or a static unit, not starting it.
rpc-svcgssd.service is a disabled or a static unit, not starting it.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu)        on this host.
azureuser@llama3-vm2:~$ sudo mkdir -p /mount/utll     torage1/sharedfiles
azureuser@llama3-vm2:~$ sudo mount -t nfs utll     a3storage1.file.core.windows.net:/utllama3storage1/sha
redfiles /mount/utllama3storage1/sharedfiles -o vers=4,minorversion=1,sec=sys,nconnect=4
azureuser@llama3-vm2:~$ ls /mount/utllama3storage1/sharedfiles/
test.txt
azureuser@llama3-vm2:~$
```

- You can see the files that were created on the GPU-enabled VM.
- Files created here can also be accessed from there.

Creating User Accounts for NFS File Sharing Across Multiple Virtual Machines

- When sharing a single file share using NFS across multiple virtual machines, and you need to create user accounts on each VM individually, please follow these steps:
- Assign the same user ID (UID) to each user on all VMs!
    1. **Assign the same user ID (UID)** to each user on all VMs

       Assign UIDs starting from 1001, in order.

       Example:

user	Account name	User ID (uid)
Ichiro Suzuki	isuzuki	1001
Futaba Sato	jsato	1002
Saburo Tanaka	pauses	1003

    2. **Create an account on each virtual machine with the following command:**

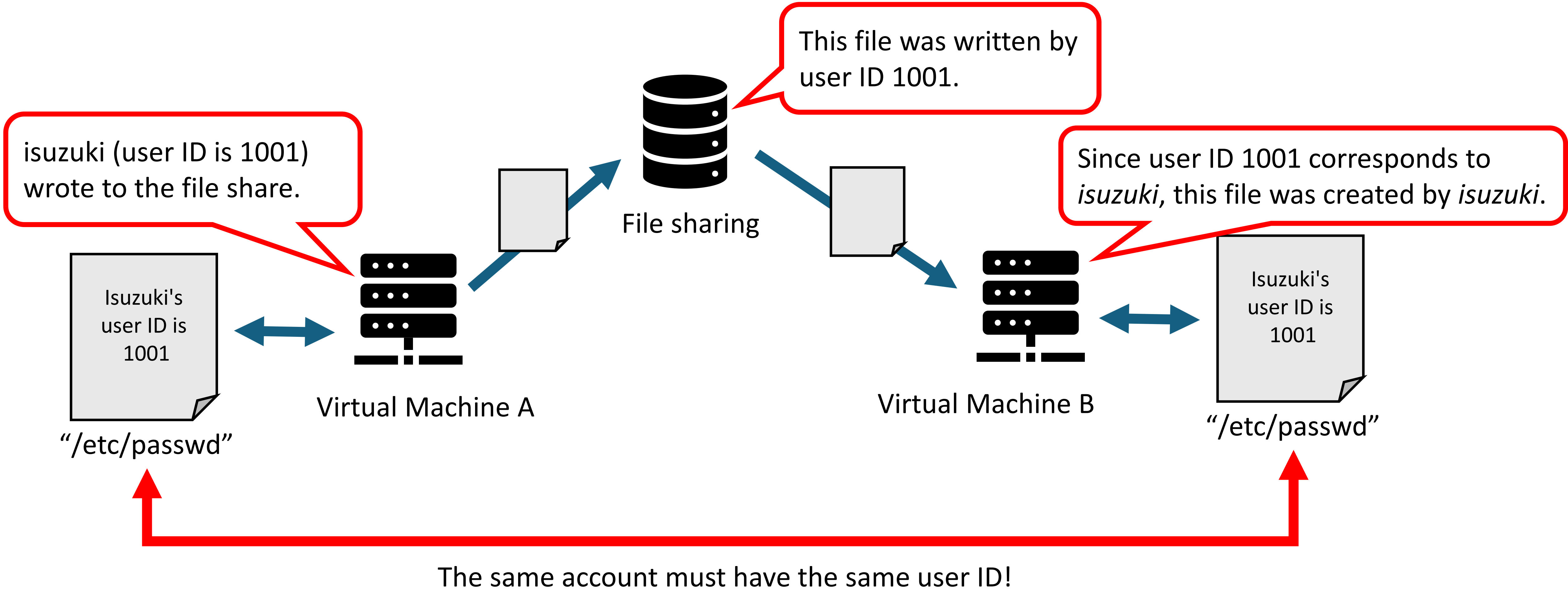
       ```
       sudo adduser -u [user ID] [account name]
       ```

       To create an account for **Ichiro Suzuki**: `sudo adduser –u 1001 isuzuki`
- It is crucial that the username and UID pairs are identical across all virtual machines that mount the same NFS file share.
    - You can verify the created accounts by checking the end of the "/etc/passwd" file on each VM.

例）`isuzuki:x:1001:1001:Ichiro Suzuki,Room102,080-1234-5678,080-5678-1234,student:/home/isuzuki:/bin/bash`

Why do user IDs need to match across virtual machines?

- In an NFS file share, **file ownership is recorded by user ID (UID), not by username**.
- If the same username has a **different UID** on another virtual machine, **ownership will appear to be incorrect**, and access issues may occur.



This file was written by user ID 1001.

isuzuki (user ID is 1001) wrote to the file share.

Since user ID 1001 corresponds to *isuzuki*, this file was created by *isuzuki*.

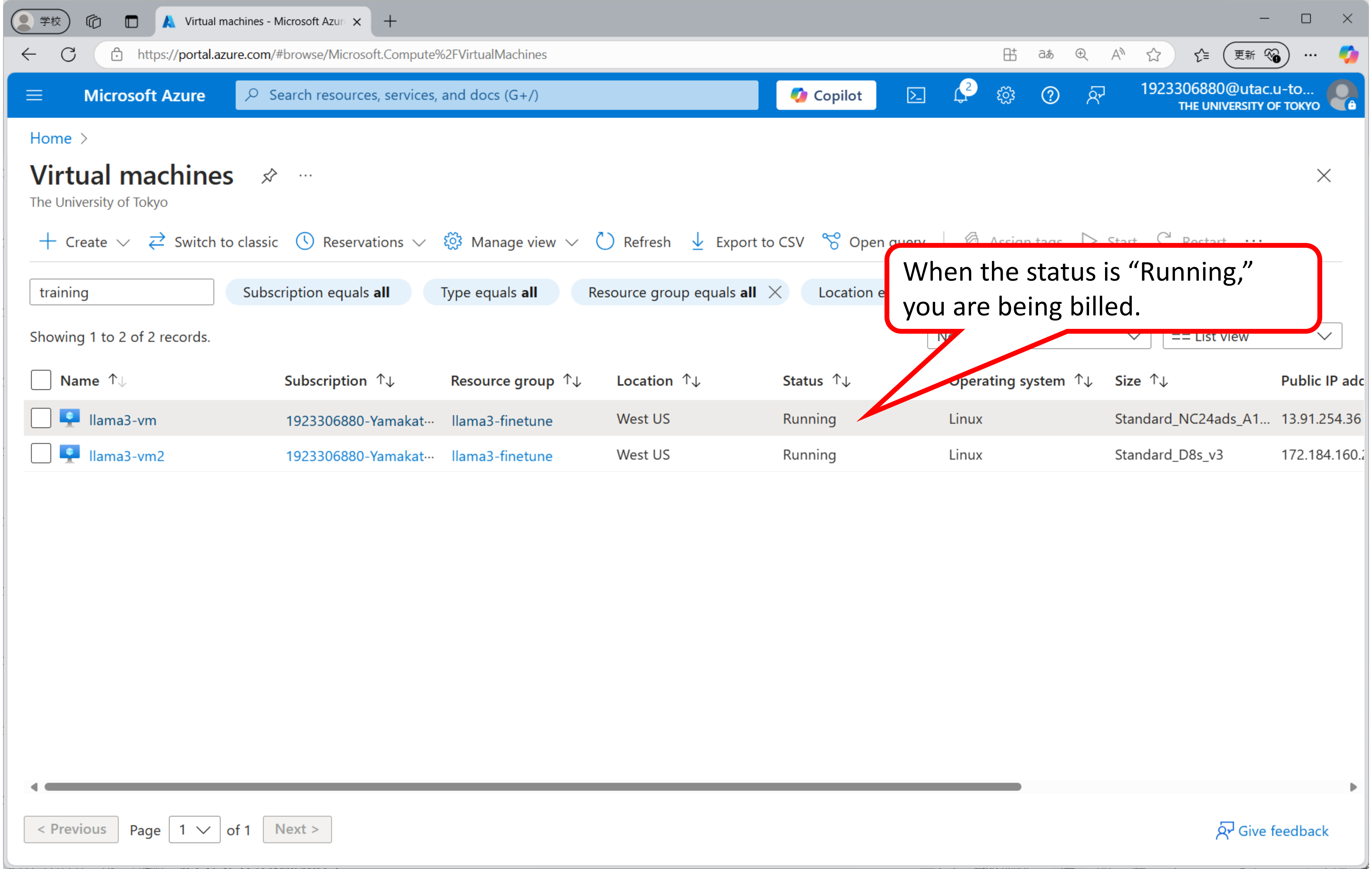
File sharing
Isuzuki's user ID is 1001
“/etc/passwd”
Virtual Machine A
Virtual Machine B
Isuzuki's user ID is 1001
“/etc/passwd”

The same account must have the same user ID!

5. Stop the virtual machine to avoid unnecessary charges

Even if you're not actively using it or shutdown the virtual machine, you will continue to be charged until the VM releases the allocated resources!

Reference: States and billing status of Azure Virtual Machines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Assign tags
Start
Restart
List view
< Previous
Page 1 of 1
Next >
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training

Subscription equals **all**

Type equals **all**

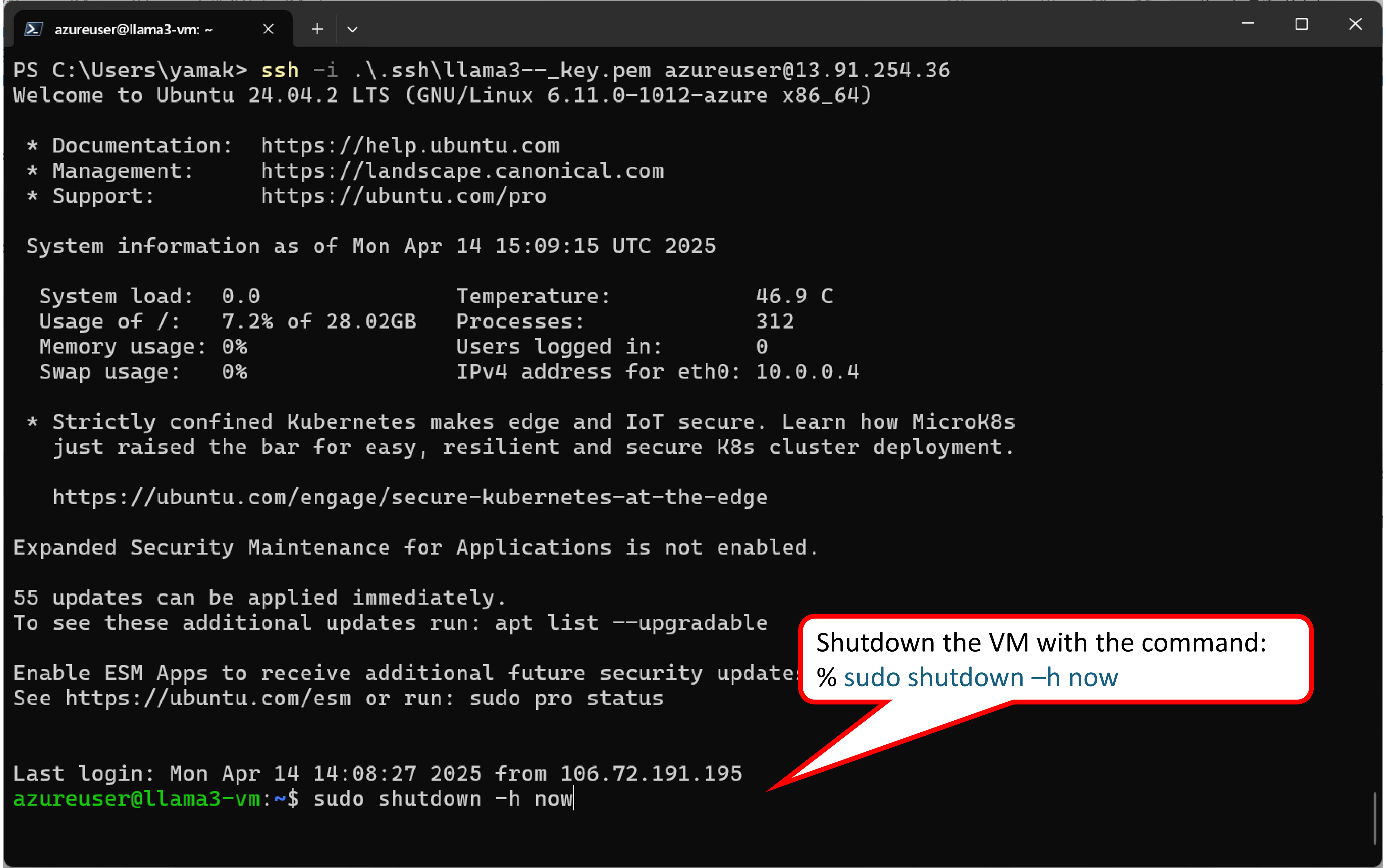
Resource group equals **all**

Location e

Showing 1 to 2 of 2 records.

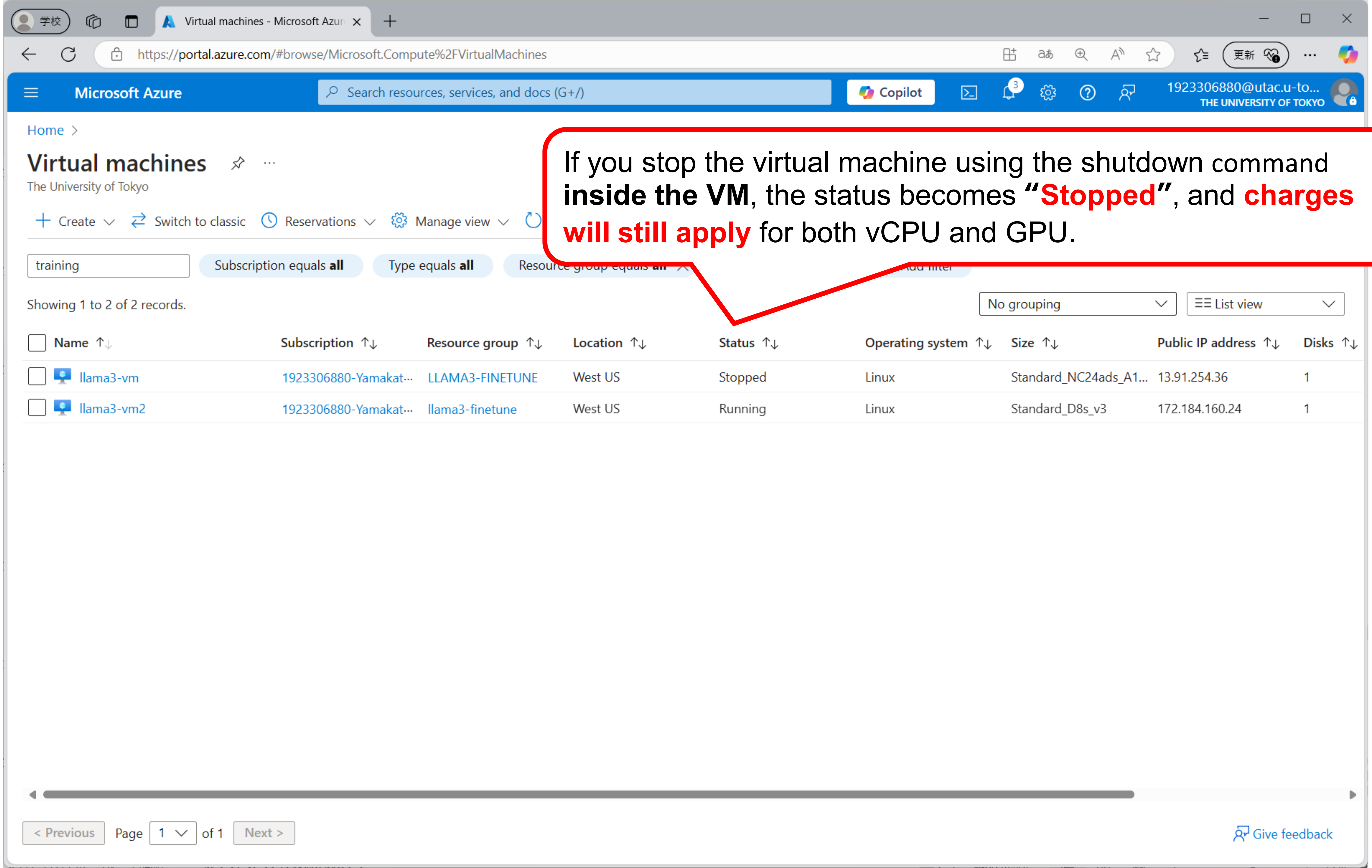
☐	Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP adc
☐	llama3-vm	1923306880-Yamakat…	llama3-finetune	West US	Running	Linux	Standard_NC24ads_A1…	13.91.254.36
☐	llama3-vm2	1923306880-Yamakat…	llama3-finetune	West US	Running	Linux	Standard_D8s_v3	172.184.160.

When the status is “Running,” you are being billed.



```
PS C:\Users\yamak> ssh -i .\.ssh\llama3--_key.pem azureuser@13.91.254.36
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-1012-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Mon Apr 14 15:09:15 UTC 2025

  System load:  0.0               Temperature:           46.9 C
  Usage of /:   7.2% of 28.02GB   Processes:             312
  Memory usage: 0%                Users logged in:       0
  Swap usage:   0%                IPv4 address for eth0: 10.0.0.4

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

55 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security update
See https://ubuntu.com/esm or run: sudo pro status


Last login: Mon Apr 14 14:08:27 2025 from 106.72.191.195
azureuser@llama3-vm:~$ sudo shutdown -h now
```

Shutdown the VM with the command:
% sudo shutdown –h now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+ Create
Switch to classic
Reservations
Manage view
training
Subscription equals all
Type equals all
Resource group equals all
No grouping
List view
< Previous
Page 1 of 1
Next >
Give feedback

Virtual machines

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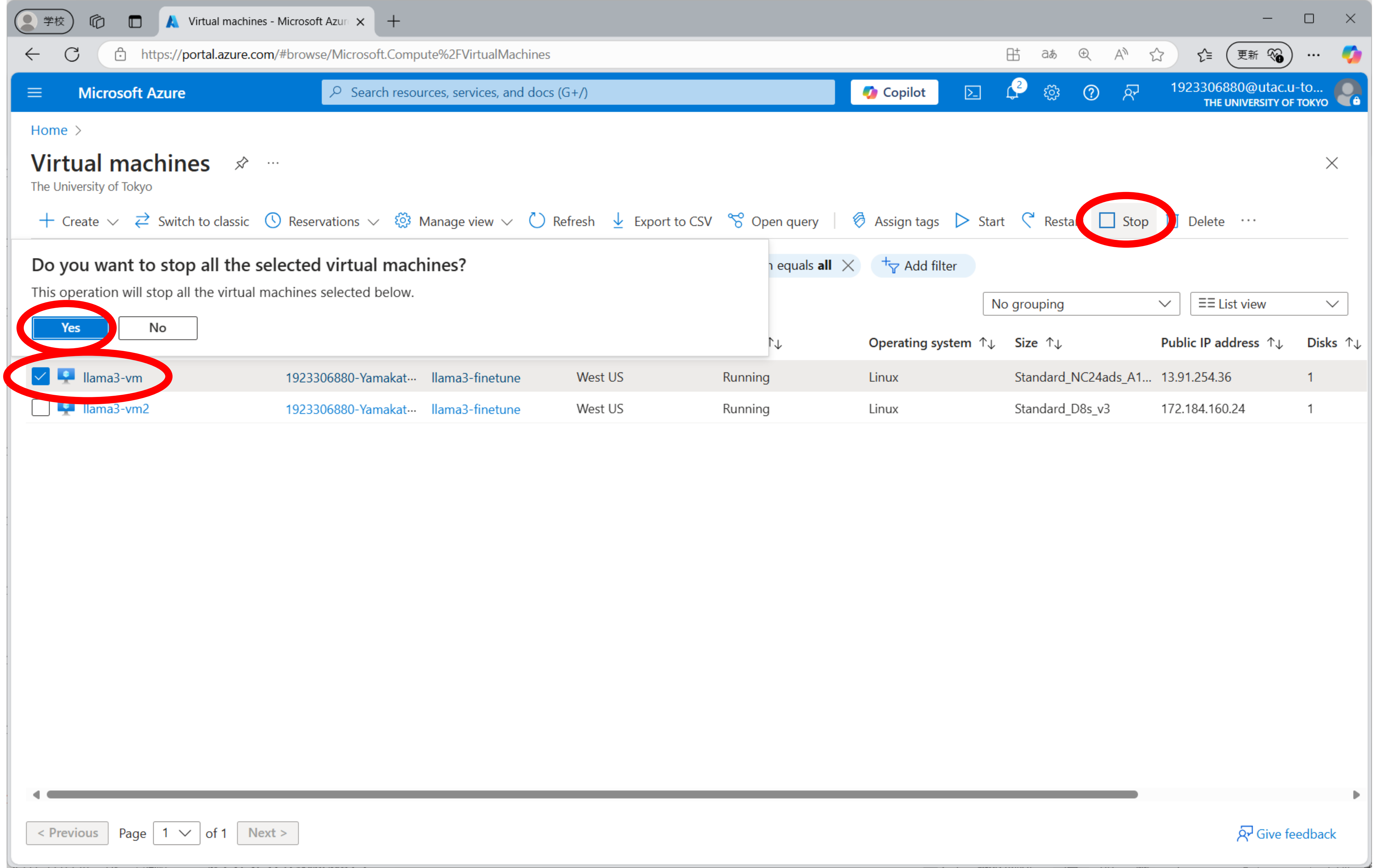
Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
llama3-vm	1923306880-Yamakat...	LLAMA3-FINETUNE	West US	Stopped	Linux	Standard_NC24ads_A1...	13.91.254.36	1
llama3-vm2	1923306880-Yamakat...	llama3-finetune	West US	Running	Linux	Standard_D8s_v3	172.184.160.24	1

If you stop the virtual machine using the shutdown command **inside the VM**, the status becomes **"Stopped"**, and **charges will still apply** for both vCPU and GPU.


Virtual machines - Microsoft Azure
https://portal.azure.com/#browse/Microsoft.Compute%2FVirtualMachines
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
1923306880@utac.u-to...
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Reservations
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Export to CSV
Open query
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Stop
Delete
equals all
Add filter
No grouping
List view
< Previous
Page 1 of 1
Next >
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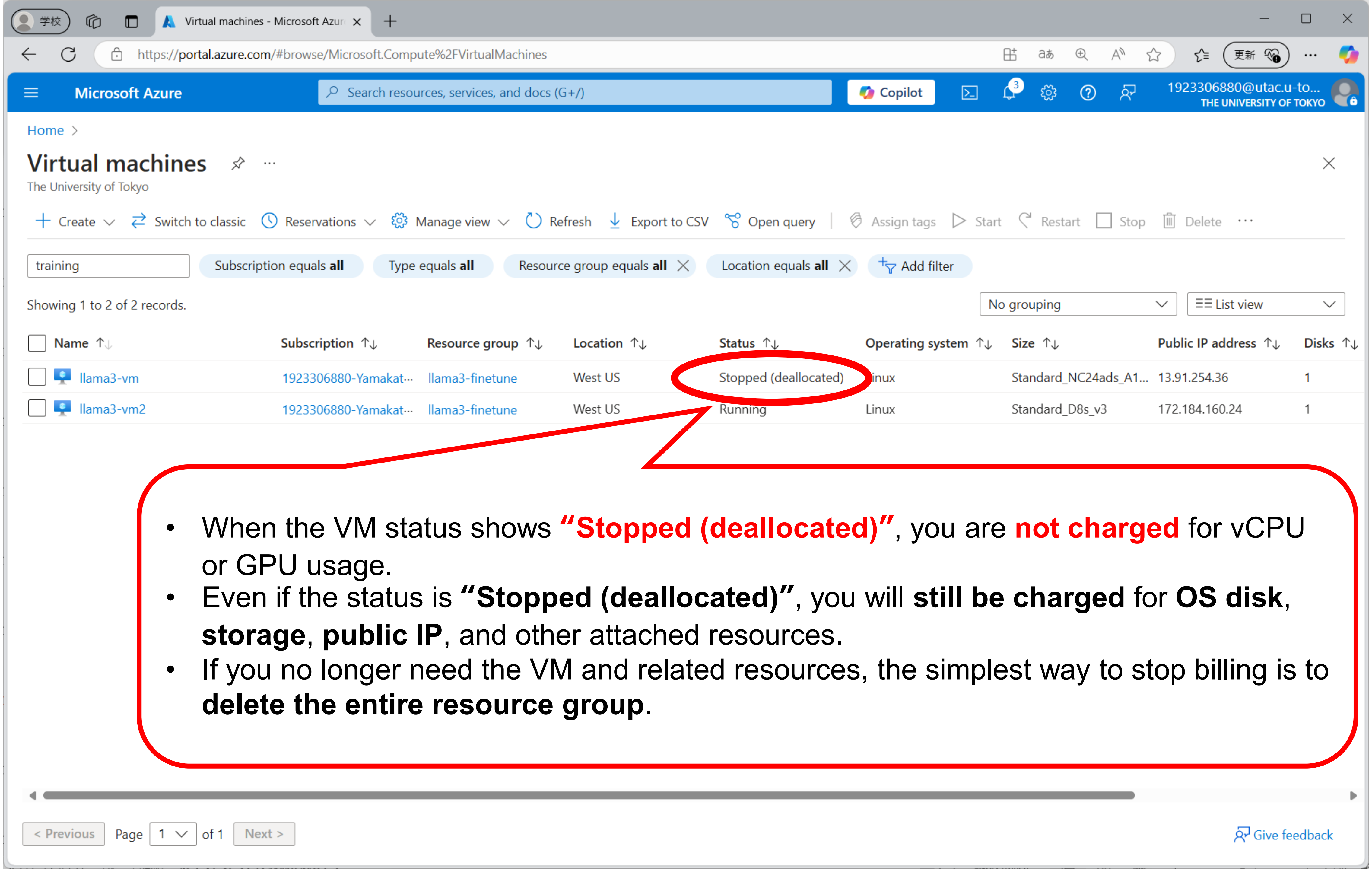
Do you want to stop all the selected virtual machines?

This operation will stop all the virtual machines selected below.

Yes No

					Operating system	Size	Public IP address	Disks
☑ llama3-vm	1923306880-Yamakat...	llama3-finetune	West US	Running	Linux	Standard_NC24ads_A1...	13.91.254.36	1
☐ llama3-vm2	1923306880-Yamakat...	llama3-finetune	West US	Running	Linux	Standard_D8s_v3	172.184.160.24	1


Virtual machines - Microsoft Azure
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Assign tags
Start
Restart
Stop
Delete
Add filter
No grouping
List view
< Previous
Page 1 of 1
Next >
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Virtual machines

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training | Subscription equals **all** | Type equals **all** | Resource group equals **all** | Location equals **all**

Showing 1 to 2 of 2 records.

☐	Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
☐	llama3-vm	1923306880-Yamakat...	llama3-finetune	West US	Stopped (deallocated)	inux	Standard_NC24ads_A1...	13.91.254.36	1
☐	llama3-vm2	1923306880-Yamakat...	llama3-finetune	West US	Running	Linux	Standard_D8s_v3	172.184.160.24	1

- When the VM status shows **"Stopped (deallocated)"**, you are **not charged** for vCPU or GPU usage.
- Even if the status is **"Stopped (deallocated)"**, you will **still be charged** for **OS disk**, **storage**, **public IP**, and other attached resources.
- If you no longer need the VM and related resources, the simplest way to stop billing is to **delete the entire resource group**.