

Managing Azure Storage

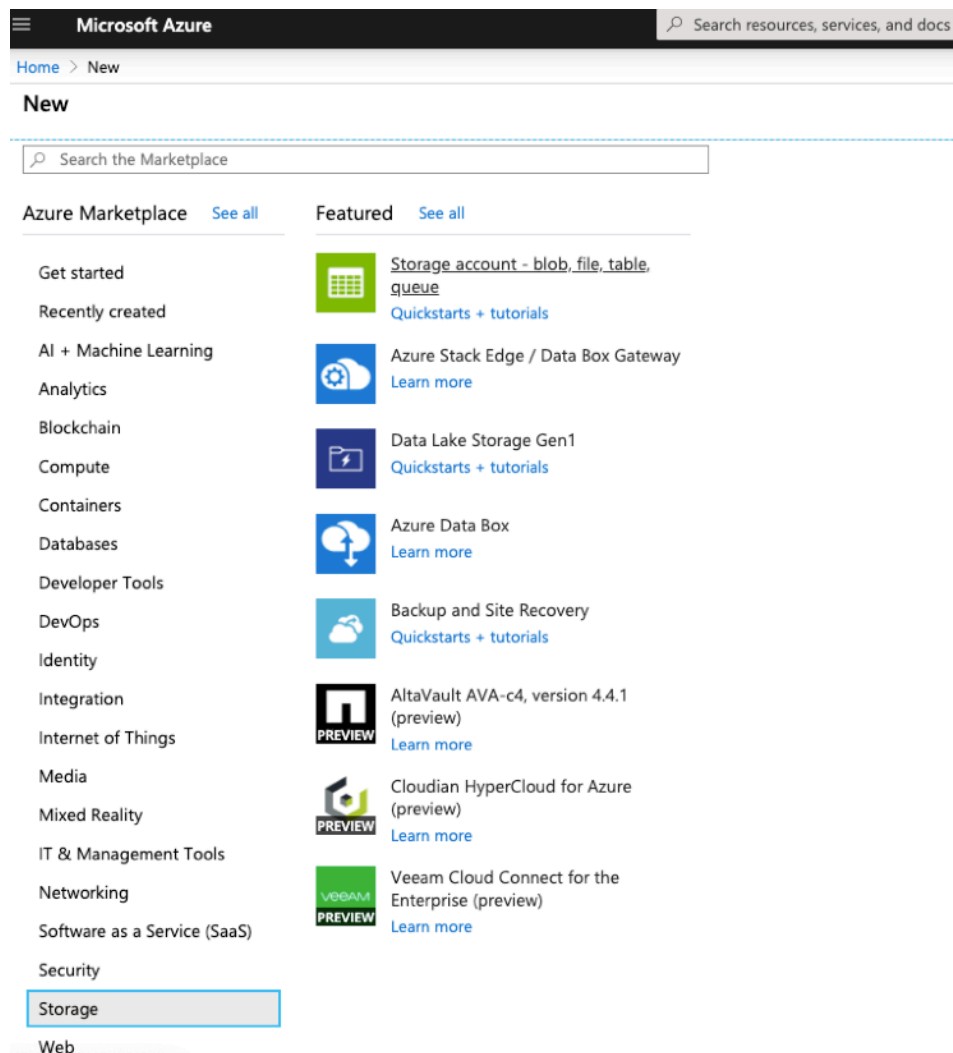
1. Download Microsoft's Azure storage explorer from

<https://azure.microsoft.com/en-us/features/storage-explorer/>

Step 1: Create Storage Account

In this exercise, you will create a new storage account.

1. Enter the account associated with your Microsoft Azure subscription
2. If your account is associated with an organization account and a Microsoft account you may be prompted to choose which one to authenticate with for your Microsoft Azure account.
3. Click NEW, Click Data + Storage, and then Storage Account.



4. Specify the following configuration and then click Create.

Resource Group: Create New. Eg: Lcastro-Storage

Storage Account Name: Username+storage. Eg: lcastrostorage

Location: Region defined per user

Replication: LRS

Note: Leave all other values as default

Click **Create**

Microsoft Azure

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Create storage account

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Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

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

Subscription *

Visual Studio Professional

Resource group *

(New) lcastro-Storage

[Create new](#)

Instance details

The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. [Choose classic deployment model](#)

Storage account name * ⓘ

lcastrostorage ✓

Location *

(US) East US

Performance ⓘ

☒ Standard ☐ Premium

Account kind ⓘ

StorageV2 (general purpose v2)

Replication ⓘ

Locally-redundant storage (LRS)

Access tier (default) ⓘ

☐ Cool ☒ Hot

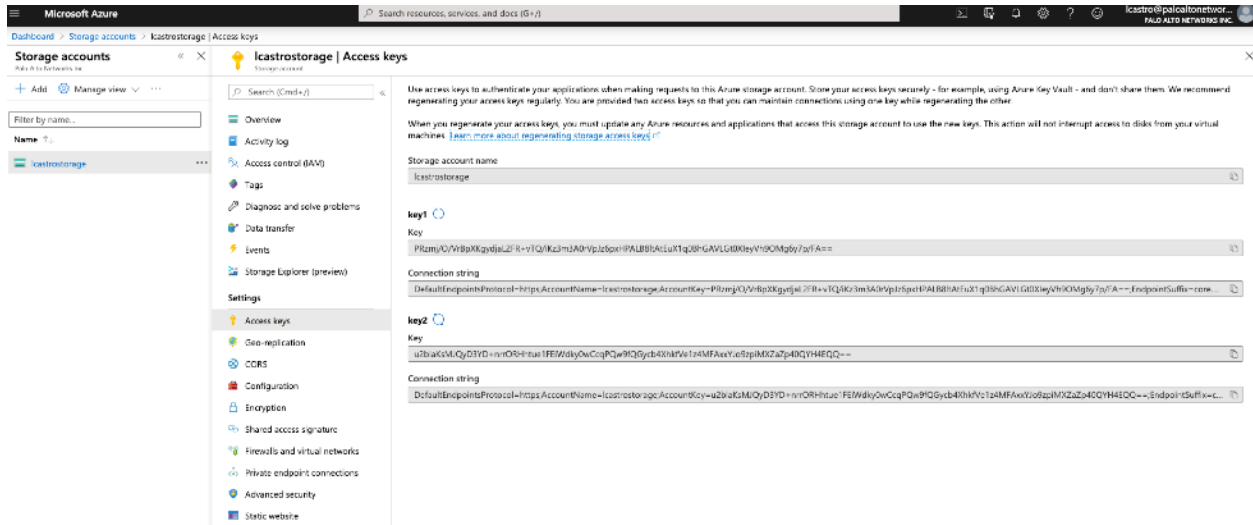
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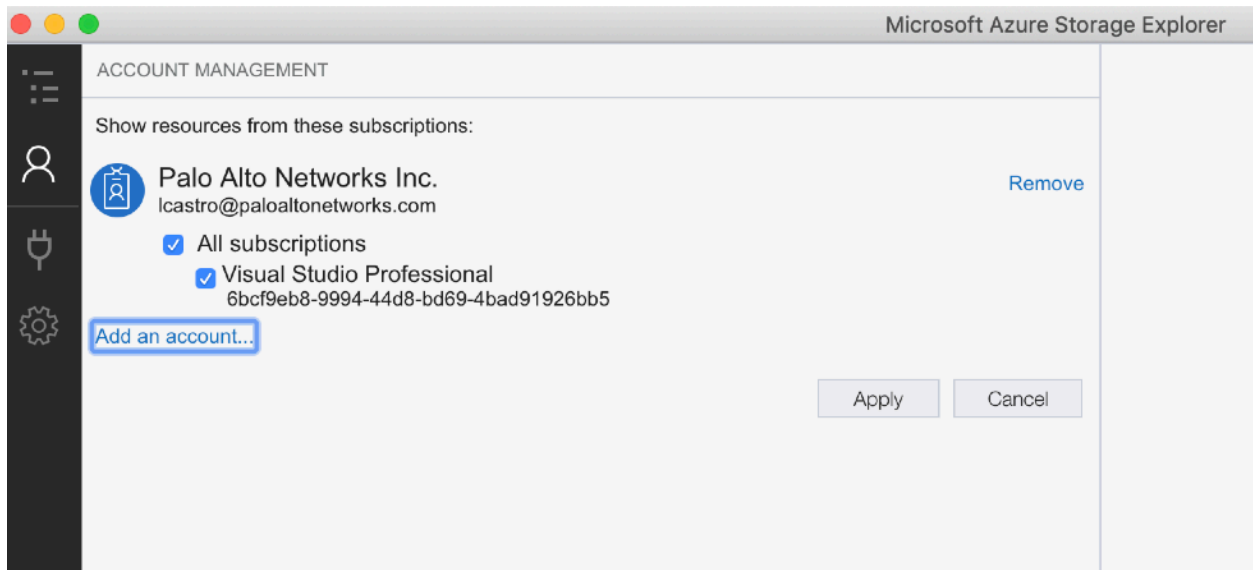
Step 2: Storage Account Keys

Access the storage account keys as follows:

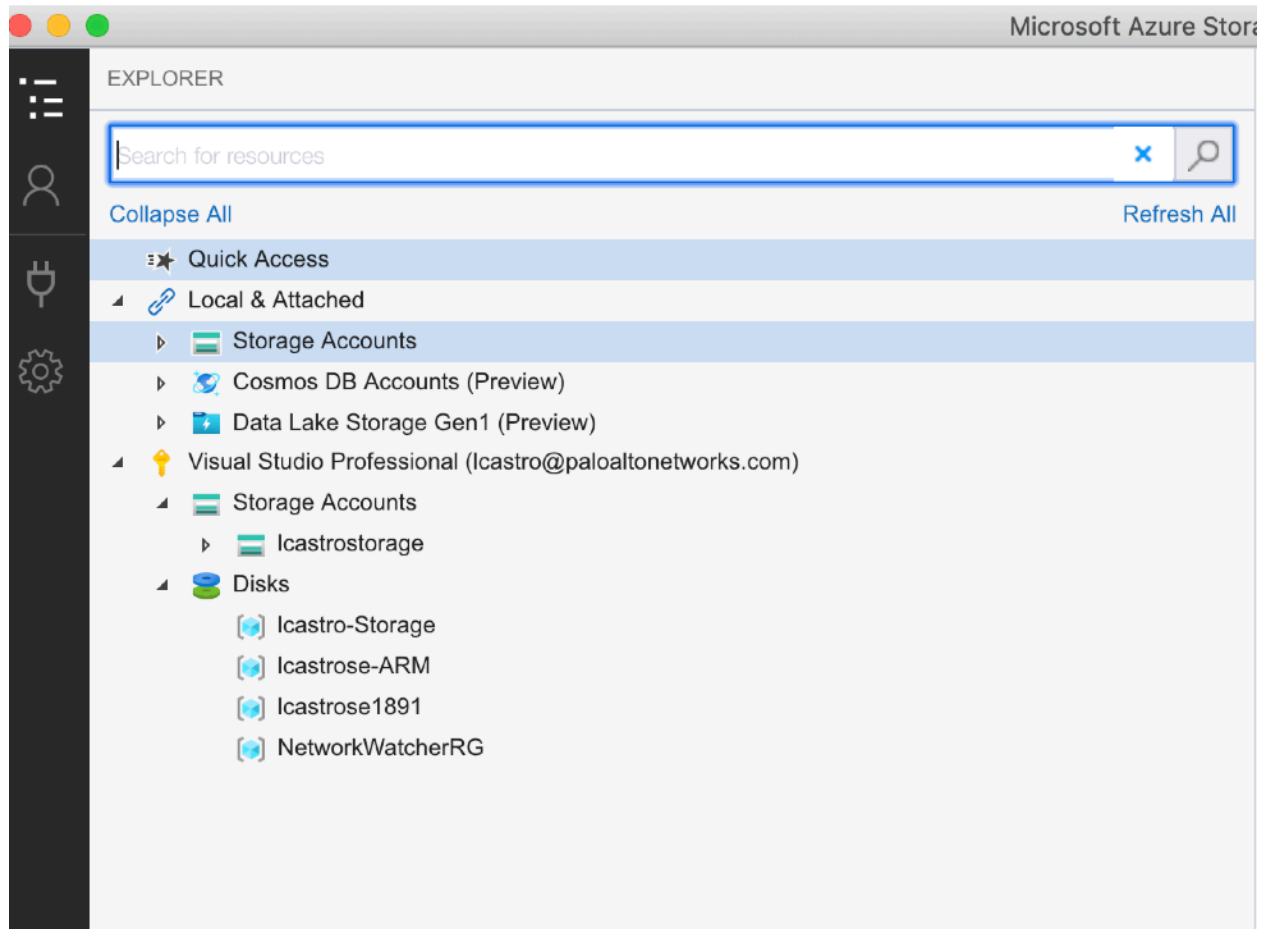


Step 3: Working with Azure Storage Explorer

1. Once you open the storage explorer, you will see 'Add Azure Subscription' option as highlighted below.



2. Click on Connect to Microsoft Azure. Provide necessary credentials to connect to your subscriptions.
3. This will load up the storage accounts in that particular subscription.

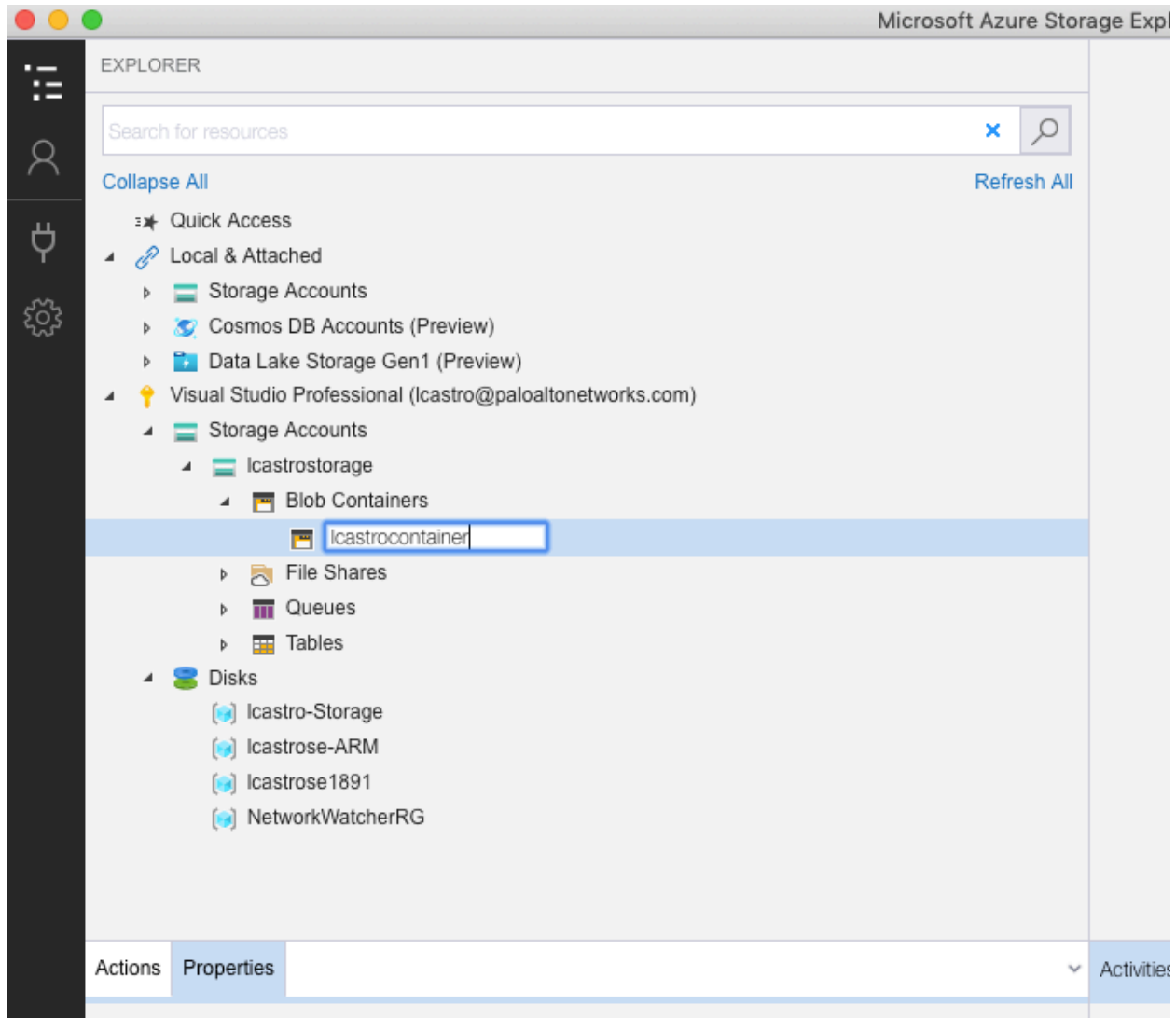


Step 4

Create a blob container. Select the storage account created in the earlier exercise.

Right click on “Blob Containers”, Select ‘Create Blob Container’.

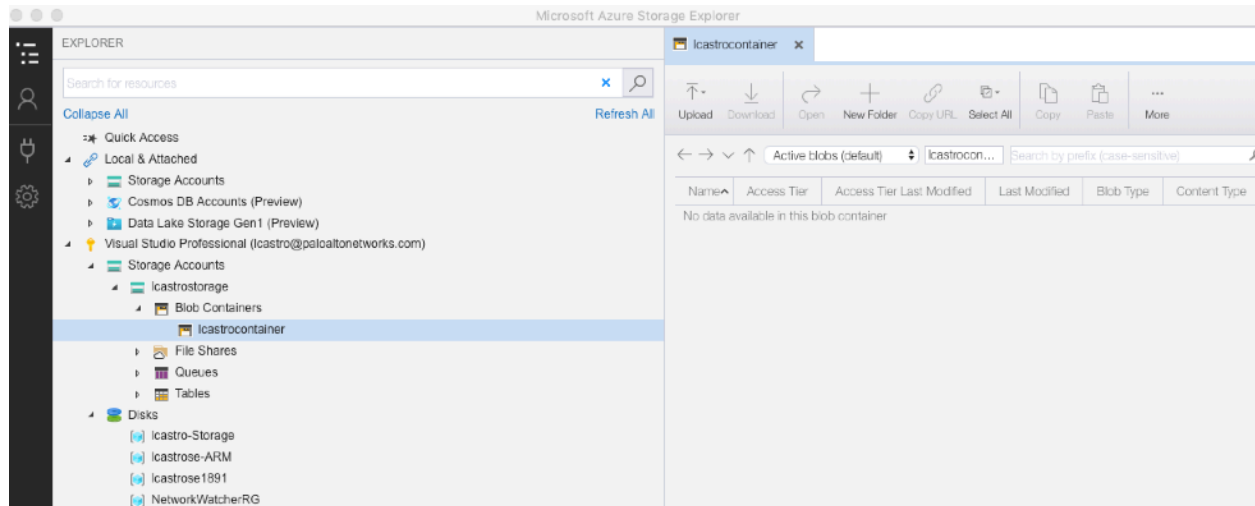
Provide a particular name (call it username+container) in the text box that comes up.



Step 5

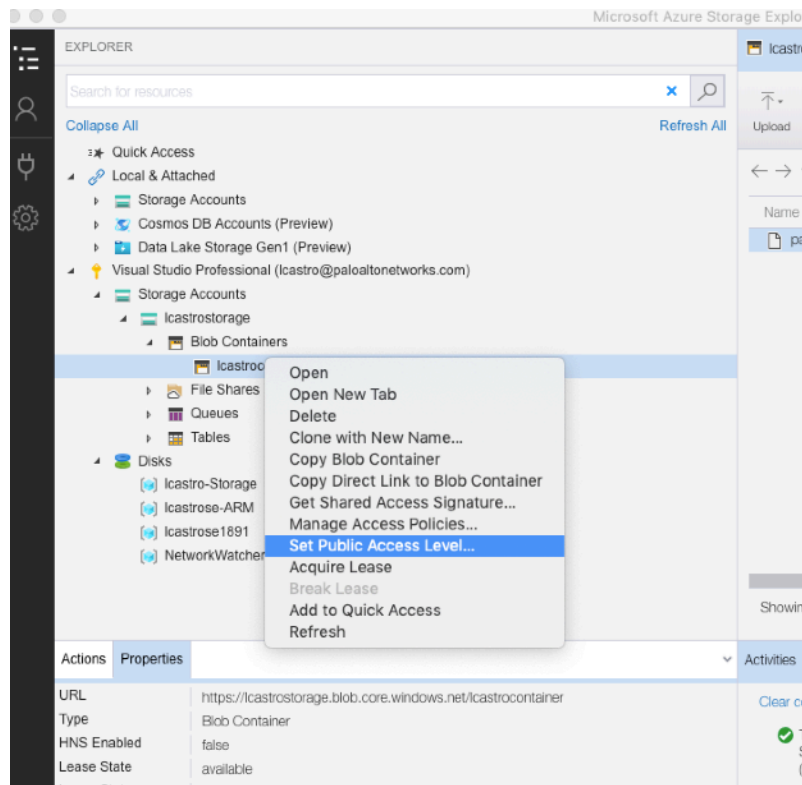
Upload a File define in the Lab_Files > [palo-alto-networks-product-summary-specsheet-2020.pdf](#)

Double click on the container created in previous step

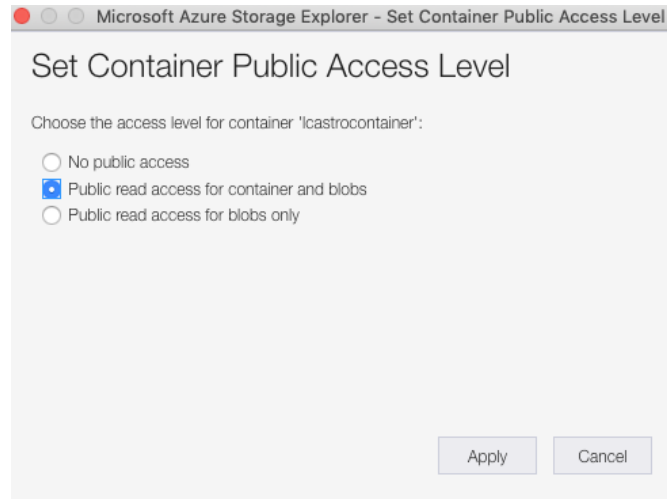


Step 6

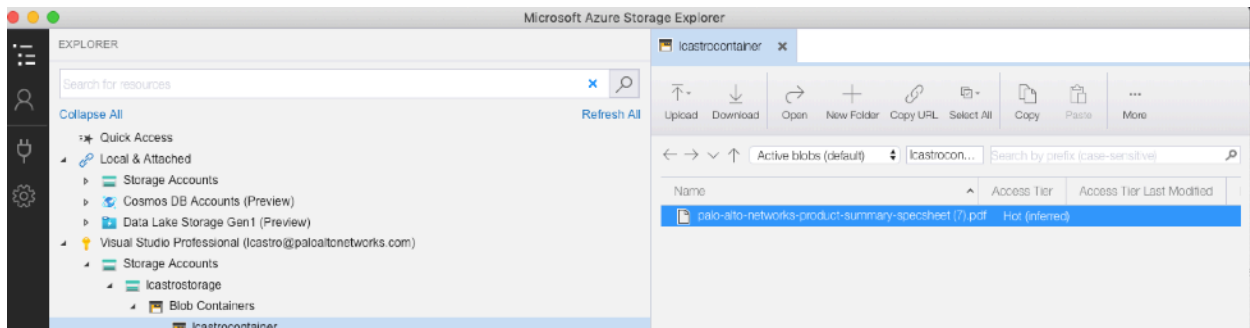
Share this blob by specifying access control. Right-click the container. Here you can create temporary SAS based access URLs or define access level for blob/container.



Let's select 'public access to container/blobs' option.

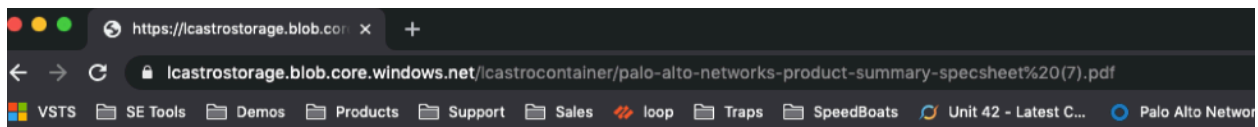


4. From Blob Menu click 'Copy URL to Clipboard'.



5. Open a new incognito browser window and paste the URL.

You should be able to see the file. You can change the access level to 'No public access' and refresh the browser instance. You will get resource not found message.



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="utf-8" ?>
<Error>
  <Code>ResourceNotFound</Code>
  <Message>
    The specified resource does not exist. RequestId:a0c682e9-c01e-007d-7680-05a61a000000 Time:2020-03-29T04:16:53.6074532Z
  </Message>
</Error>
```

Step 7: BLOB copy between storage accounts

Back in the portal, create a second storage account.

Give the name of the storage account “username+store2”.

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Home > Storage accounts > Create storage account

Create storage account

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Storage account name * ⓘ

lcastrostorage2 ✓

Location *

(US) East US

Performance ⓘ

☒ Standard ☐ Premium

Account kind ⓘ

StorageV2 (general purpose v2)

Replication ⓘ

Locally-redundant storage (LRS)

Access tier (default) ⓘ

☐ Cool ☒ Hot

Review + create

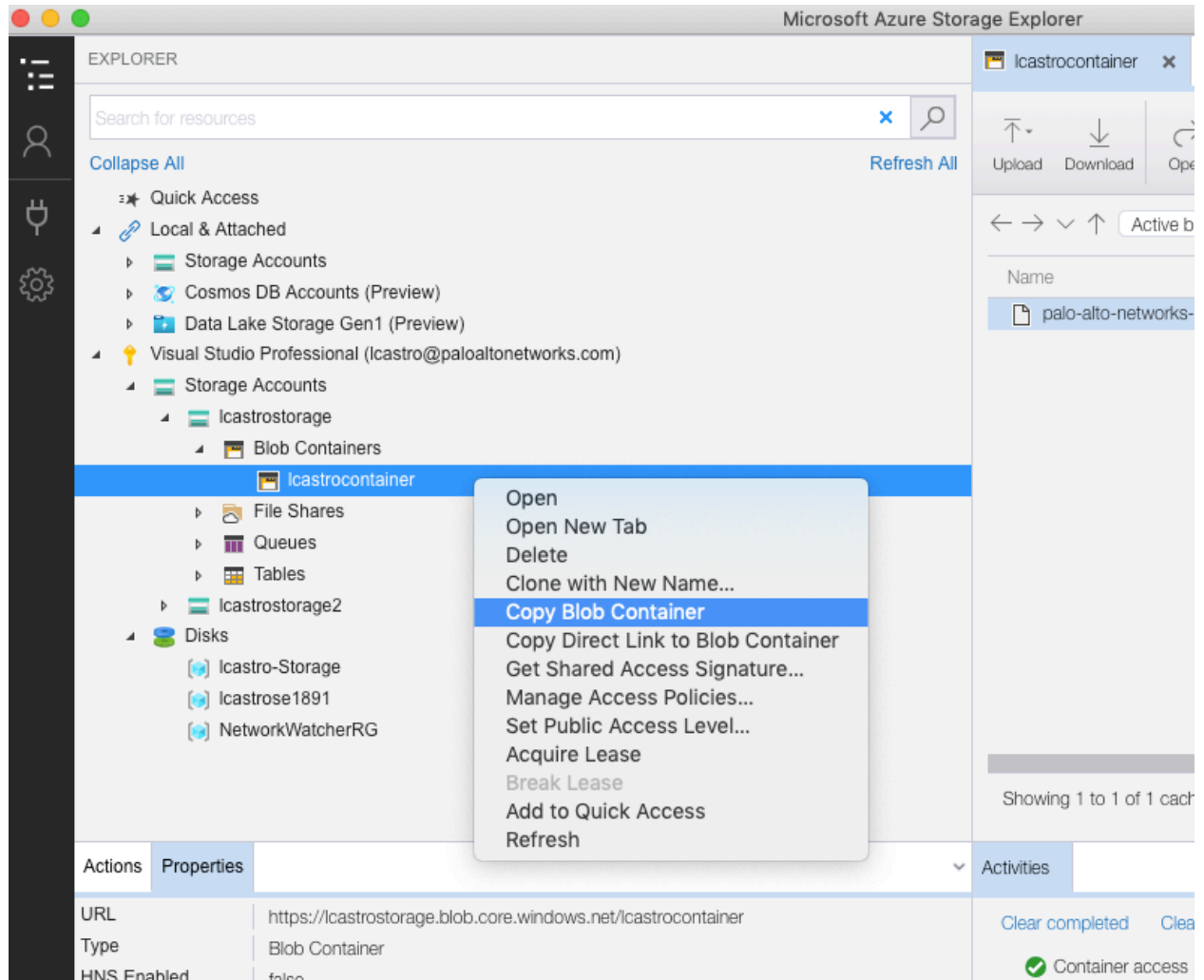
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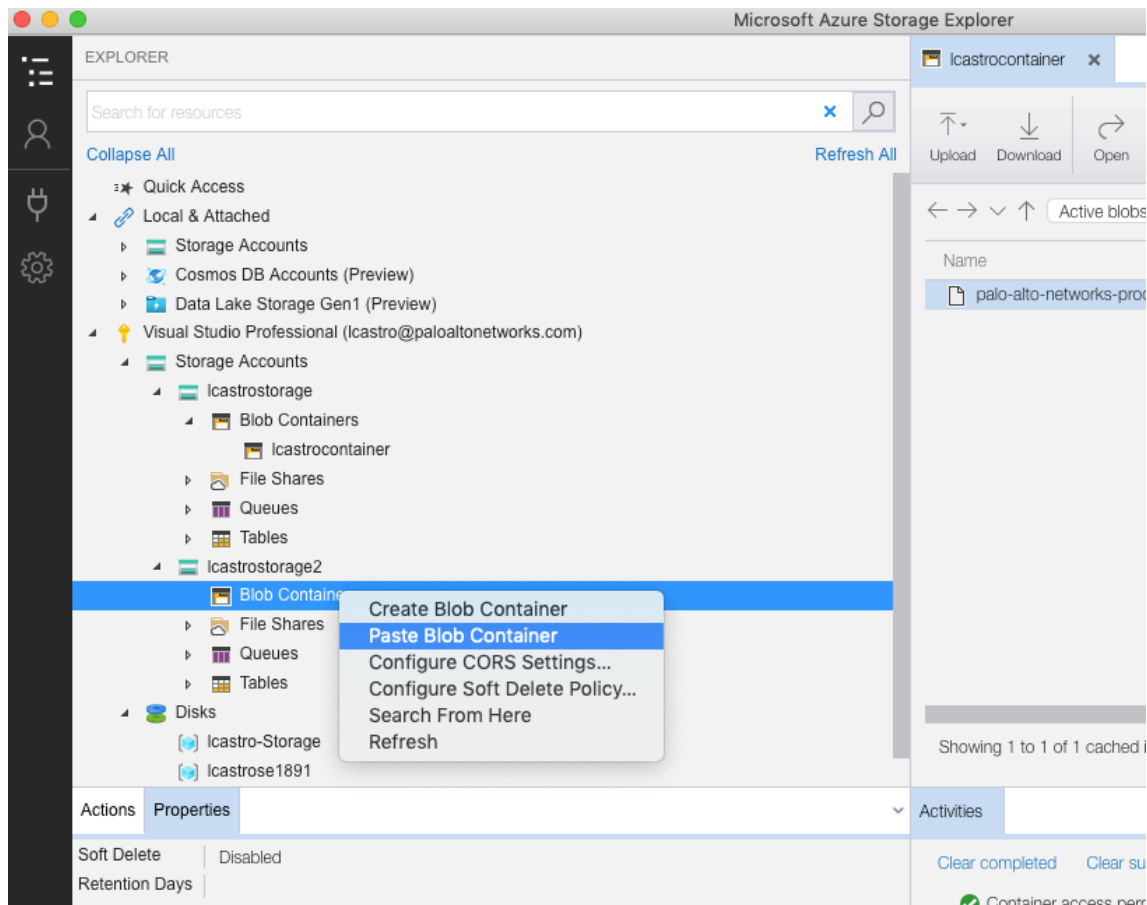
400-753-4000 | 1-800-426-0000 | Microsoft | © 2023 Microsoft Corporation. All rights reserved.

Open the Microsoft Azure Storage Explorer, browse to the file we uploaded earlier. Right- click and select copy.

Browse to blobcontainer2, and select 'paste'.

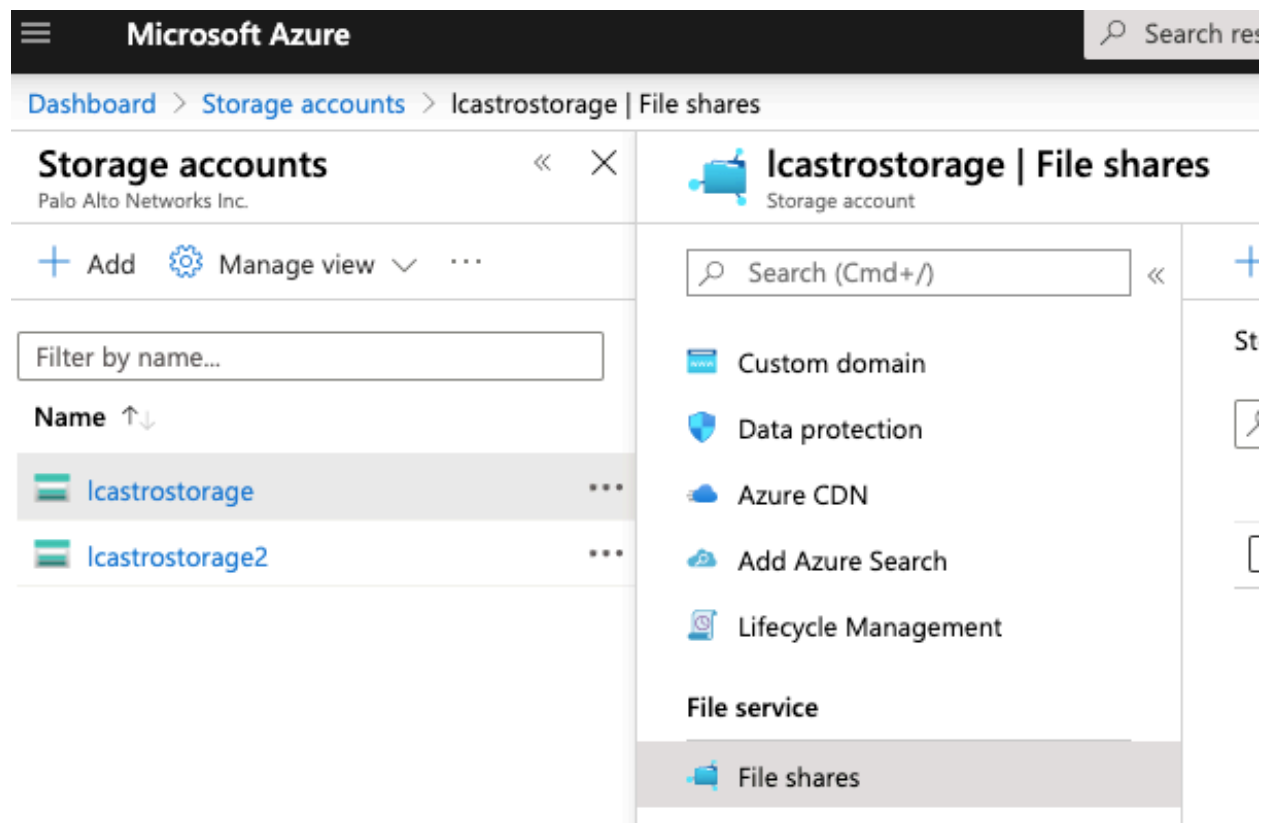


Click on Refresh to view the file that is copied to this container.



Step 8: Create an Azure File Share in the portal and mount it in one of the VMs created earlier

1. Navigate through the Azure storage account as shown below:

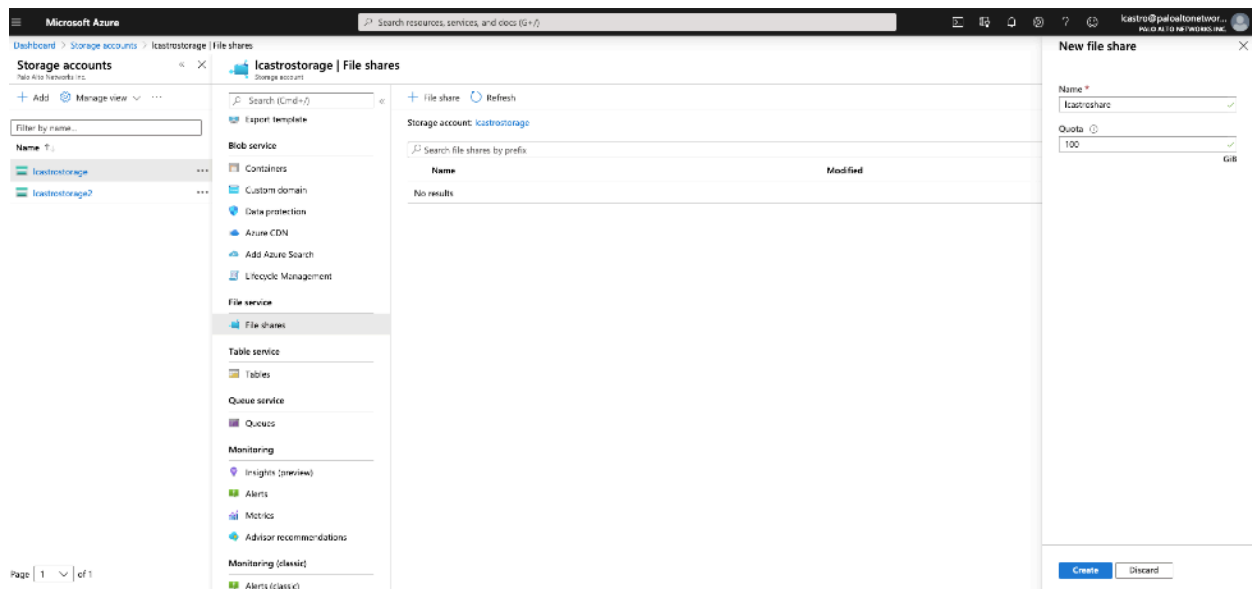


The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb trail indicates the path: Dashboard > Storage accounts > lcastrostorage | File shares. The left sidebar shows the 'Storage accounts' section for 'Palo Alto Networks Inc.', with options to 'Add' or 'Manage view'. A filter box is present, and a list of storage accounts is shown, including 'lcastrostorage' and 'lcastrostorage2'. The main content area displays the 'lcastrostorage | File shares' page, which includes a search bar and a list of services: Custom domain, Data protection, Azure CDN, Add Azure Search, and Lifecycle Management. Under the 'File service' section, 'File shares' is highlighted.

2. Add the following details for 'File Share'

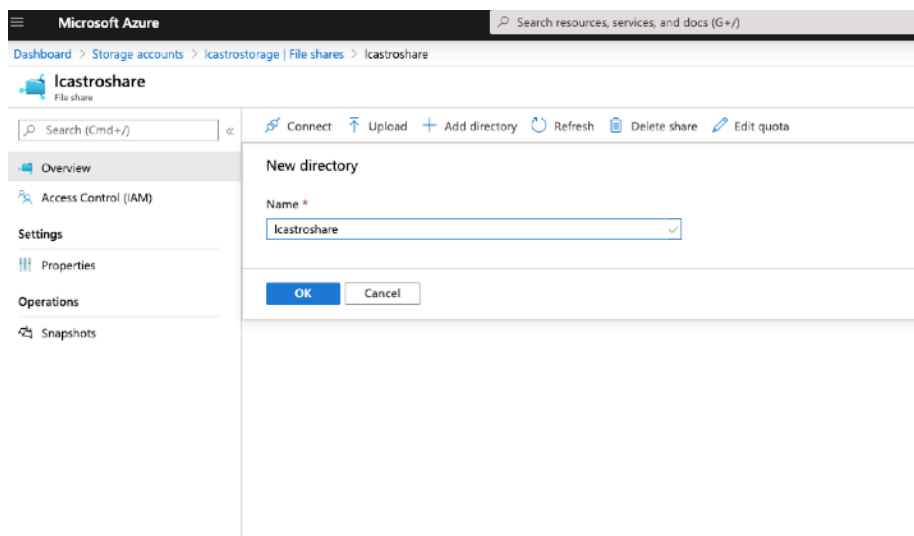
Name: username+share. Eg: lcastroshare

Quota: 100GB



3. Click on 'Create' button.

4. Create a directory.



5. Once the directory is created, you can click on 'connect' and copy network file share path and try to access it. You will be prompted with user-name and password. Use the storage account name and access-key as credentials.

The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation links: Overview, Access Control (IAM), Settings, Properties, and Operations. The main content area displays the 'icastroshare' storage account details. Under the 'Connect' section, there are buttons for 'Connect', 'Upload', 'Add directory', 'Refresh', 'Delete share', and 'Edit quota'. Below these, a table lists the available file shares:

Name	Type
icastroshare	Directory

On the right side, the 'Connect' pane is open, showing options for Windows, Linux, and macOS. The 'Drive letter' is set to 'Z'. Below this, there is a PowerShell script for connecting to the storage account:

```

$connectTestResult = Test-NetConnection -ComputerName
icastroshare.file.core.windows.net -Port 445
if ($connectTestResult.Success) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "mkdir
/add "icastroshare.file.core.windows.net"
/assign:"Z" "icastroshare"
}

This script will check to see if this storage account is accessible via
TCP port 445, which is the port SMB uses. If port 445 is available,
your Azure file share will be persistently mounted. Your
organization or Internet service provider (ISP) may block port 445,
however you may use Azure Point-to-Site (P2S) VPN, Azure Site-to-Site (S2S) VPN, or ExpressRoute to tunnel SMB traffic to your
Azure file share over a different port.
  
```

A warning message at the top of the 'Connect' pane states: "Secure transfer required" is enabled on the storage account. SMB clients must support 3.0 encryption to connect. Click here to learn more about connecting Azure files.