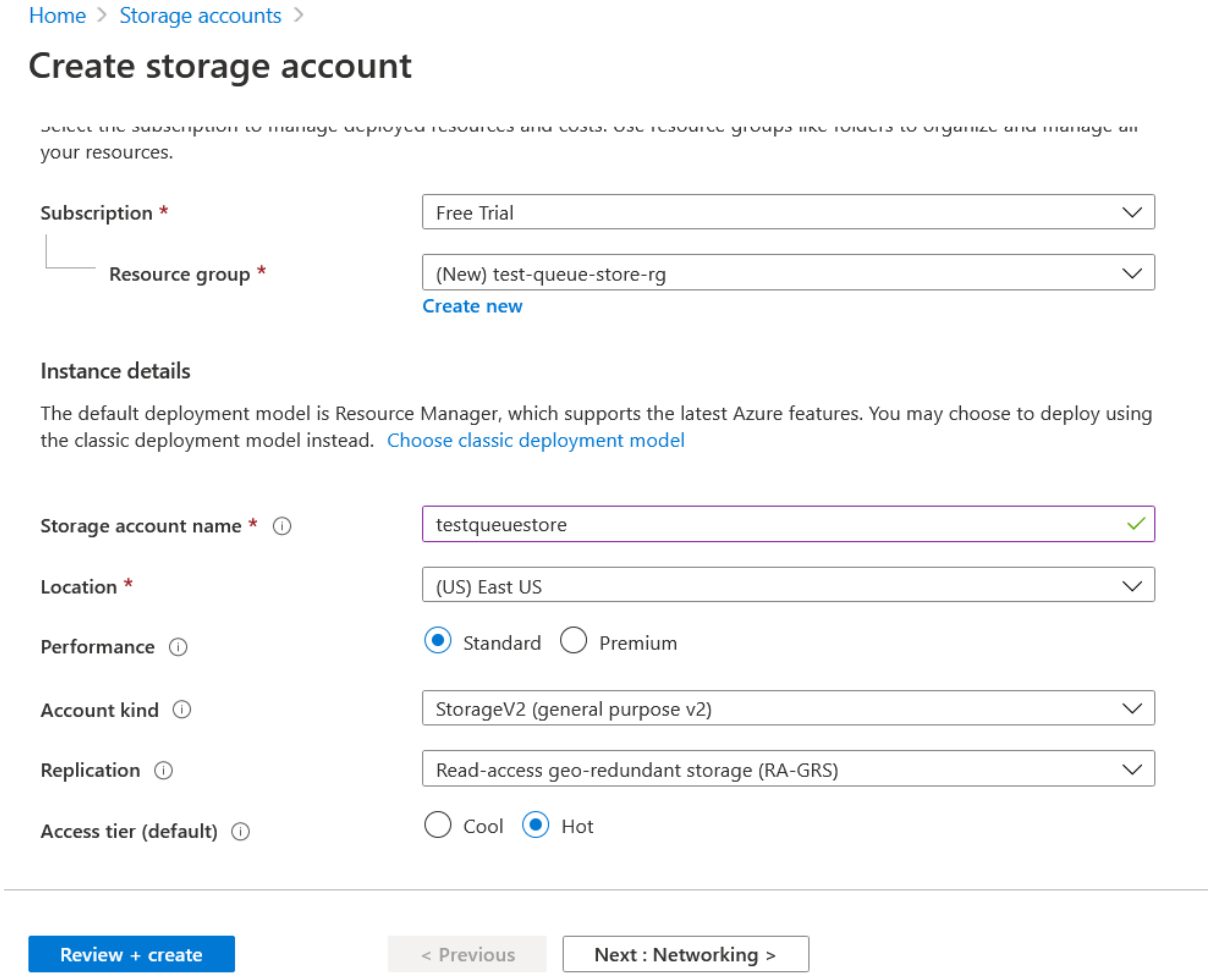
Azure Queue Storage is a service for storing large numbers of messages.
These messages can access from anywhere via authenticated calls using HTTP or HTTPS.
A queue message can be up to 64 KB in size. Queues are commonly used to create a backlog of work to process asynchronously.

The Queue service contains below components
Storage account: All access to Azure Storage is done through a storage account.
Queue: A queue contains a set of messages.
Message: A message, in any format, of up to 64 KB.The maximum time-to-live can be any positive number, or -1 indicating that the message doesn't expire. If this parameter is omitted, the default time-to-live is seven days.
URL format: https://<storage account>.queue.core.windows.net/<queue>



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Create storage account

Basics | **Networking** | Data protection | Advanced | Tags | Review + create

Network connectivity

You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.

Connectivity method *

- (•) Public endpoint (all networks)
- ( ) Public endpoint (selected networks)
- ( ) Private endpoint

All networks will be able to access this storage account.
Learn more about connectivity methods

Network routing

Determine how to route your traffic as it travels from the source to its Azure endpoint. Microsoft network routing is recommended for most customers.

Routing preference * ⓘ

- (•) Microsoft network routing (default)
- ( ) Internet routing

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Blob soft delete ⓘ — (•) Disabled ( ) Enabled

File share soft delete ⓘ — (•) Disabled ( ) Enabled

Versioning ⓘ — (•) Disabled ( ) Enabled

The current combination of subscription, storage account kind, performance, replication and location does not support versioning.

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Create storage account

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Security

Secure transfer required ⓘ — ○ Disabled ◉ Enabled

Blob public access ⓘ — ◉ Disabled ○ Enabled

Minimum TLS version ⓘ — Version 1.0

Azure Files

Large file shares ⓘ — ○ Disabled ○ Enabled

ⓘ The current combination of storage account kind, performance, replication and location does not support large file shares.

Data Lake Storage Gen2

Hierarchical namespace ⓘ — ◉ Disabled ○ Enabled

NFS v3 ⓘ — ◉ Disabled ○ Enabled

ⓘ Sign up is currently required to utilize the NFS v3 feature on a per-subscription basis. Sign up for NFS v3

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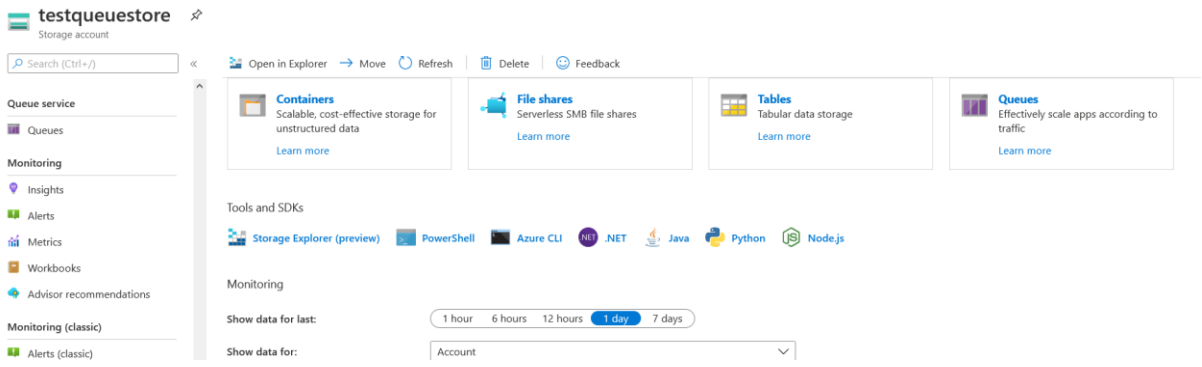
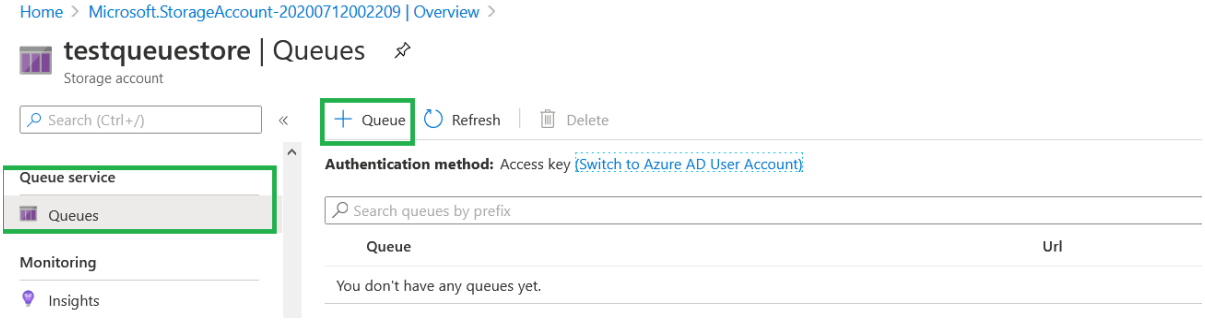
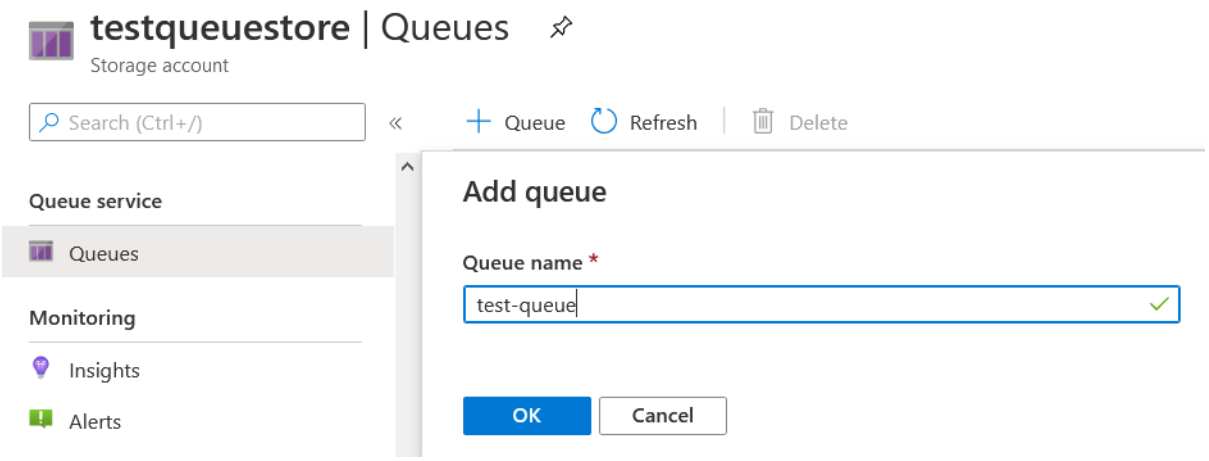
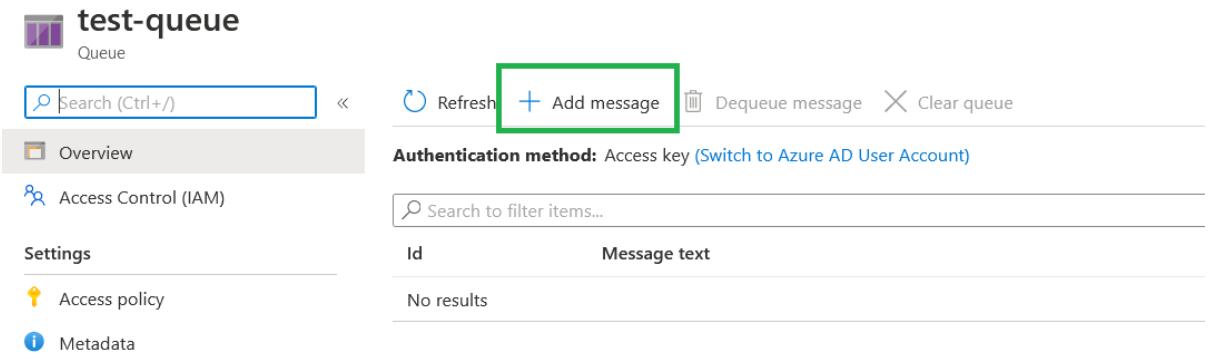
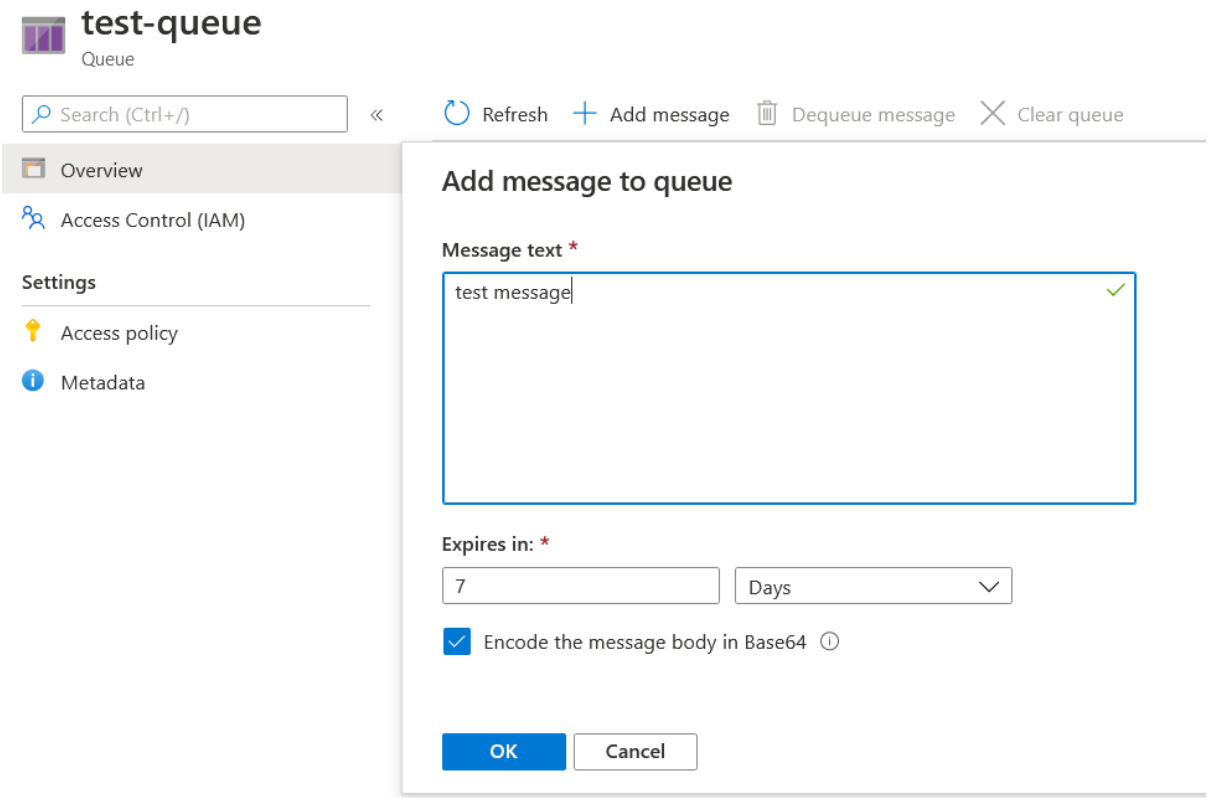


Home > Microsoft.StorageAccount-20200712002209 | Overview >




testqueuestore | Queues
Storage account
Search (Ctrl+/)
Queue
Refresh
Delete
Queue service
Queues
Monitoring
Insights
Alerts
Add queue
Queue name *
test-queue
OK
Cancel


test-queue
Queue
Search (Ctrl+/)
Refresh
Add message
Dequeue message
Clear queue
Overview
Access Control (IAM)
Authentication method: Access key (Switch to Azure AD User Account)
Settings
Search to filter items...
Access policy
Id
Message text
Metadata
No results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Queue
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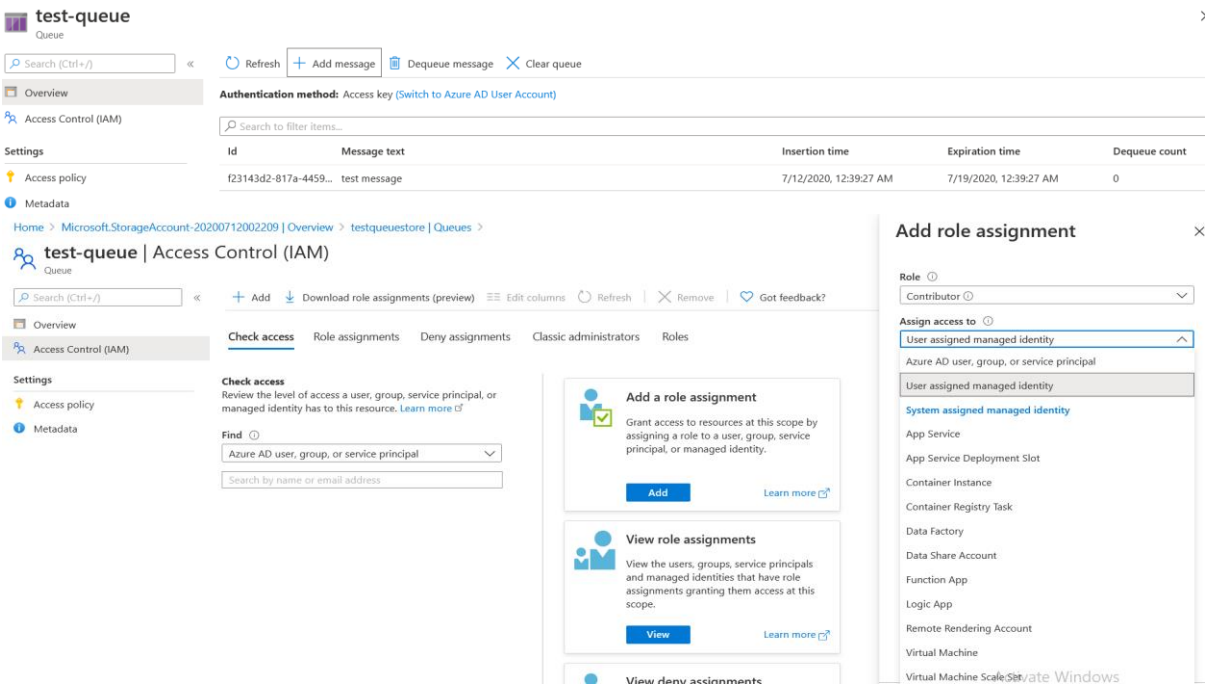
Add message
Dequeue message
Clear queue
Overview
Access Control (IAM)
Add message to queue
Settings
Message text *
test message
Access policy
Metadata
Expires in: *
7
Days
Encode the message body in Base64
OK
Cancel



Queue storage operations with Azure PowerShell

sign to portal and Retrieve list of locations
Connect-AzAccount
Get-AzLocation | Select-Object Location
$location = "eastus"

Create resource group
$resourceGroup = "howtoqueuesrg"
New-AzResourceGroup -ResourceGroupName $resourceGroup -Location $location

Create storage account
$storageAccountName = "howtoqueuestorage"
$storageAccount = New-AzStorageAccount -ResourceGroupName $resourceGroup `
 -Name $storageAccountName `
 -Location $location `
 -SkuName Standard_LRS

$ctx = $storageAccount.Context

Create a queue
$queueName = "howtoqueue"
$queue = New-AzStorageQueue –Name $queueName -Context $ctx

Retrieve a queue
Retrieve a specific queue
$queue = Get-AzStorageQueue –Name $queueName –Context $ctx
Show the properties of the queue
$queue

Retrieve all queues and show their names

Get-AzStorageQueue -Context $ctx | Select-Object Name

Add a message to a queue

```
# Create a new message using a constructor of the CloudQueueMessage class
$queueMessage = [Microsoft.Azure.Storage.Queue.CloudQueueMessage]::new("This is message 1")

# Add a new message to the queue
$queue.CloudQueue.AddMessageAsync($QueueMessage)

# Add two more messages to the queue
$queueMessage = [Microsoft.Azure.Storage.Queue.CloudQueueMessage]::new("This is message 2")
$queue.CloudQueue.AddMessageAsync($QueueMessage)
$queueMessage = [Microsoft.Azure.Storage.Queue.CloudQueueMessage]::new("This is message 3")
$queue.CloudQueue.AddMessageAsync($QueueMessage)
```

Read a message from the queue, then delete it

```
# Set the amount of time you want to entry to be invisible after read from the queue
# If it is not deleted by the end of this time, it will show up in the queue again
$invisibleTimeout = [System.TimeSpan]::FromSeconds(10)

# Read the message from the queue, then show the contents of the message. Read the other two messages, too.
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result

# After 10 seconds, these messages reappear on the queue.
# Read them again, but delete each one after reading it.
# Delete the message.
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result
$queue.CloudQueue.DeleteMessageAsync($queueMessage.Result.Id,$queueMessage.Result.popReceipt)
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result
$queue.CloudQueue.DeleteMessageAsync($queueMessage.Result.Id,$queueMessage.Result.popReceipt)
$queueMessage = $queue.CloudQueue.GetMessageAsync($invisibleTimeout,$null,$null)
$queueMessage.Result
$queue.CloudQueue.DeleteMessageAsync($queueMessage.Result.Id,$queueMessage.Result.popReceipt)
```

Delete a queue

```
# Delete the queue
Remove-AzStorageQueue –Name $queueName –Context $ctx
```

Clean up resources

```
Remove-AzResourceGroup -Name $resourceGroup
```