

Lab19 – Understanding Queue Storage – Azure

Queue storage

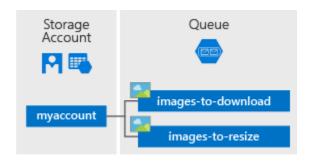
Azure Queue storage is a service for storing large numbers of messages that can be accessed from anywhere in the world via authenticated calls using HTTP or HTTPS. A single queue message can be up to 64 KB in size, and a queue can contain millions of messages, up to the total capacity limit of a storage account.

Common uses of Queue storage include:

- Creating a backlog of work to process asynchronously
- Passing messages from an Azure web role to an Azure worker role

Queue Service Concepts

The Queue service contains the following components:





• **URL format:** Queues are addressable using the following URL format: http://<storage account>.queue.core.windows.net/<queue>

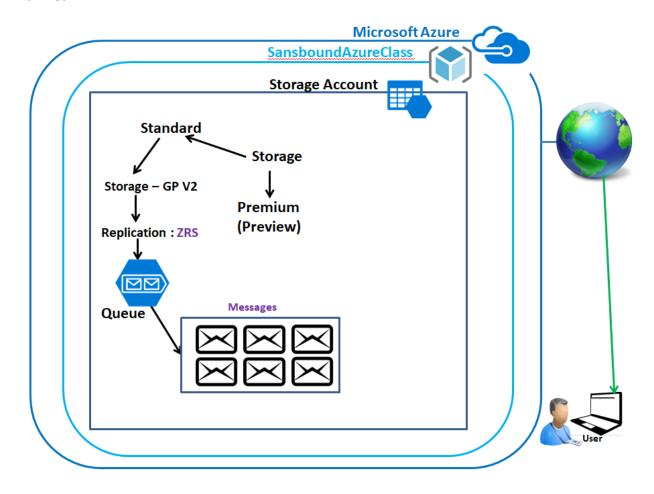
The following URL addresses a queue in the diagram:

http://myaccount.queue.core.windows.net/images-to-download

- Storage Account: All access to Azure Storage is done through a storage account.
 See <u>Azure Storage Scalability and Performance Targets</u> for details about storage account capacity.
- **Queue:** A queue contains a set of messages. All messages must be in a queue. Note that the queue name must be all lowercase. For information on naming queues, see Naming Queues and Metadata.
- **Message:** A message, in any format, of up to 64 KB. The maximum time that a message can remain in the queue is 7 days.

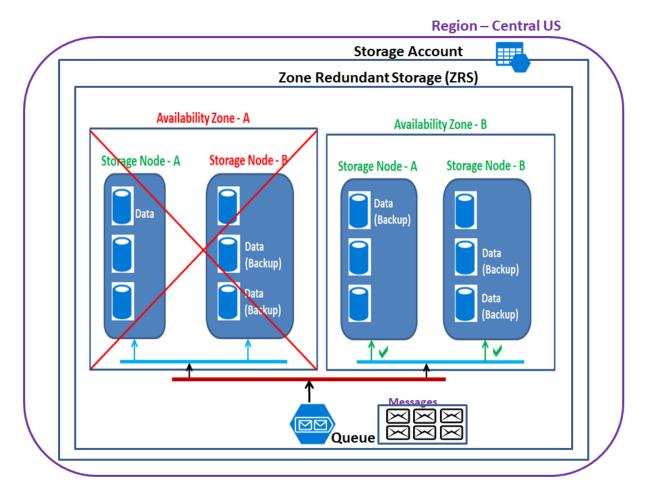


Topology:



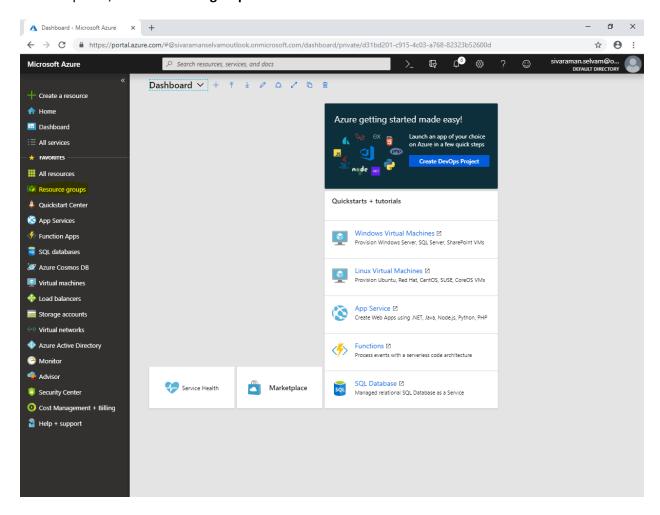


Back-End Topology:



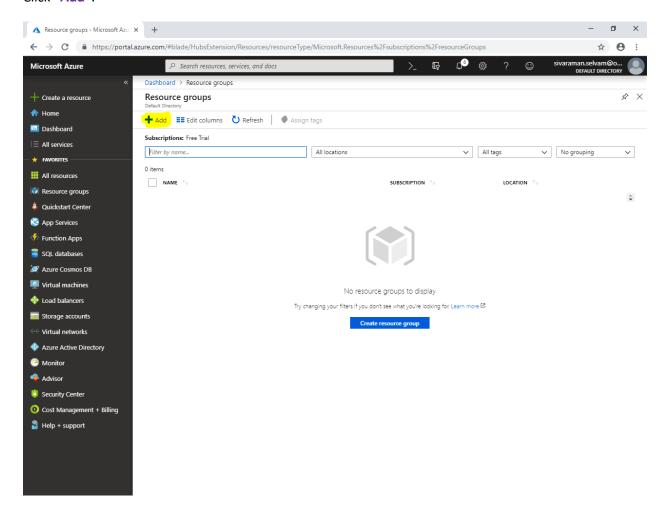


In Azure portal, click "Resource groups".





Click "Add".





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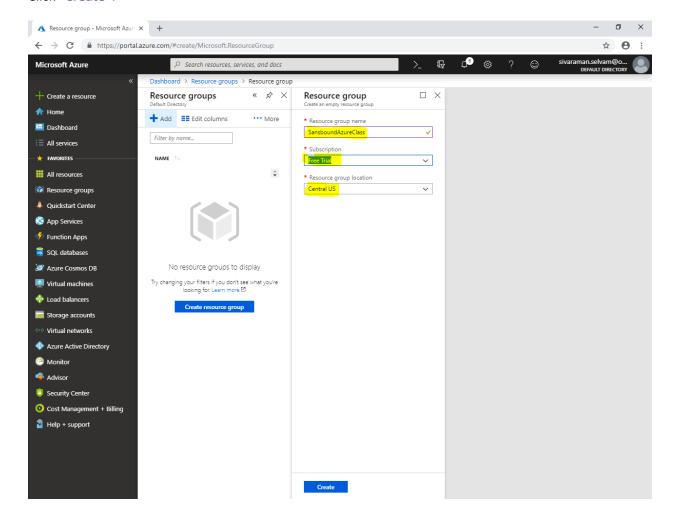
While create "Resource group",

It requires, "Resource group name" type name as "SansboundAzureClass".

Select "Subscription" as "Free Trial".

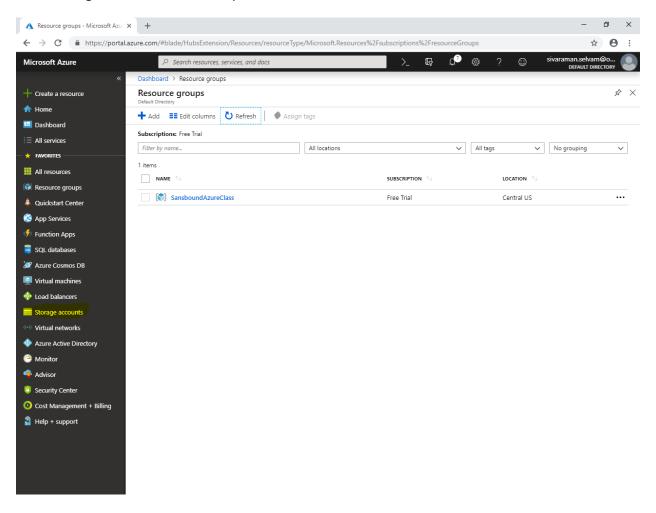
Select "Resource group location" as "Central US".

Click "Create".



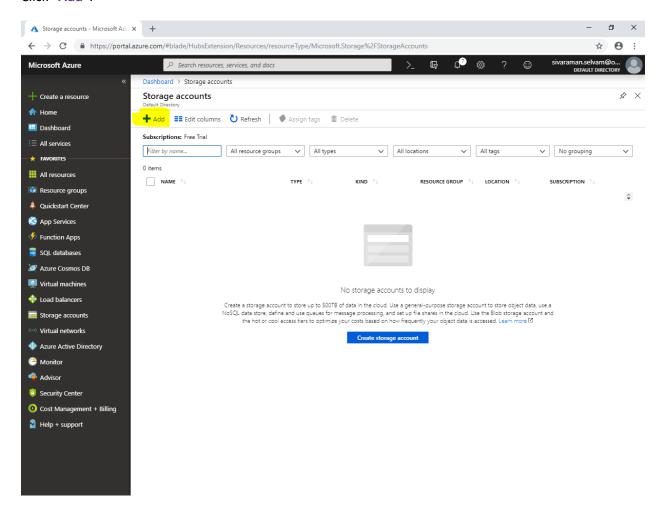


Click "Storage accounts" in left side panel.





Click "Add".





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Select "Subscription" as "Free Trial".

Select "Resource group" as "SansboundAzureClass".

Type "Storage account name" as "sansboundstorge".

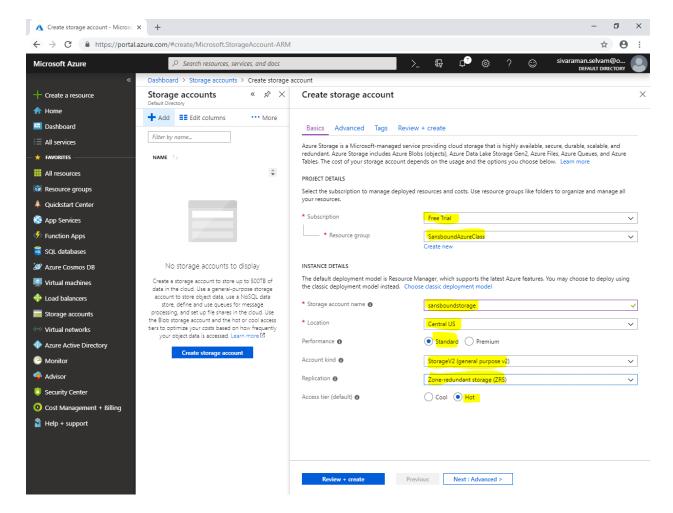
Select "Location" as "Central US".

Select "Performance" as "Standard".

Select "Account kind" as "Storage V2".

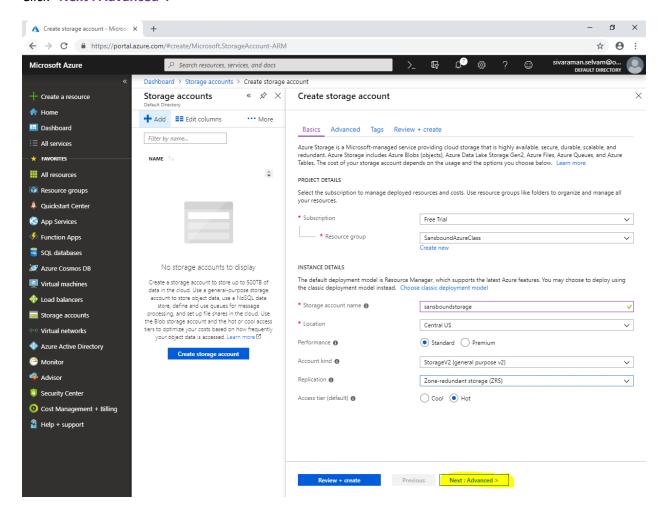
Select "Replication" as "Zone-Redundant Storage (ZRS)".

Click "Access Tier" as "Hot".





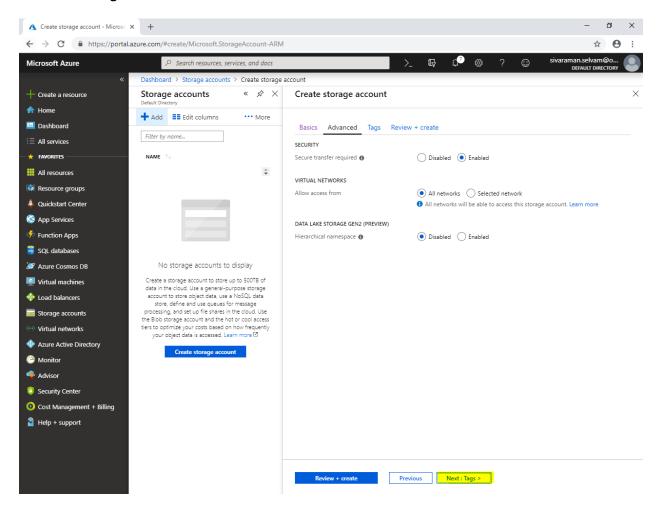
Click "Next: Advanced".





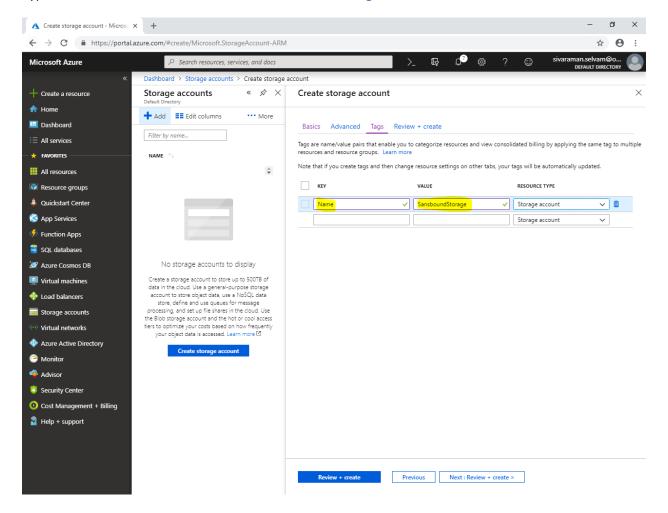
In "Advanced".

Click "Next: Tags >".



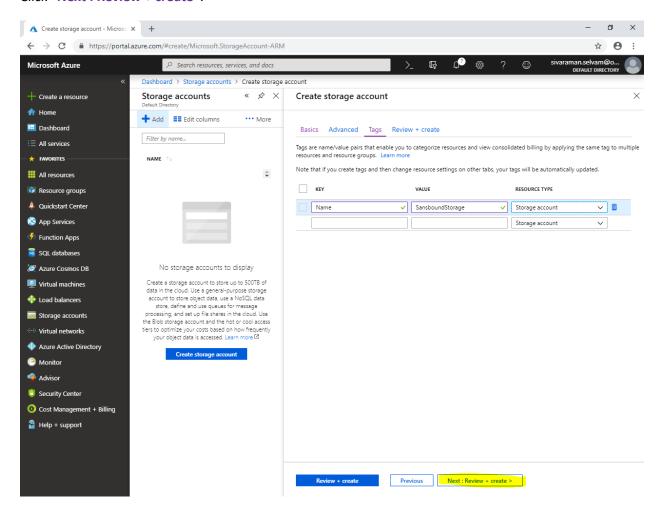


Type "KEY" as "Name" and "VALUE" as "SansboundStorage".



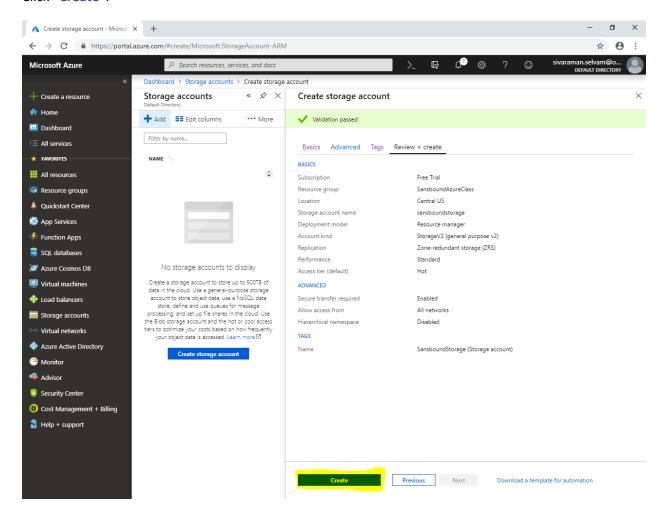


Click "Next: Review + create".



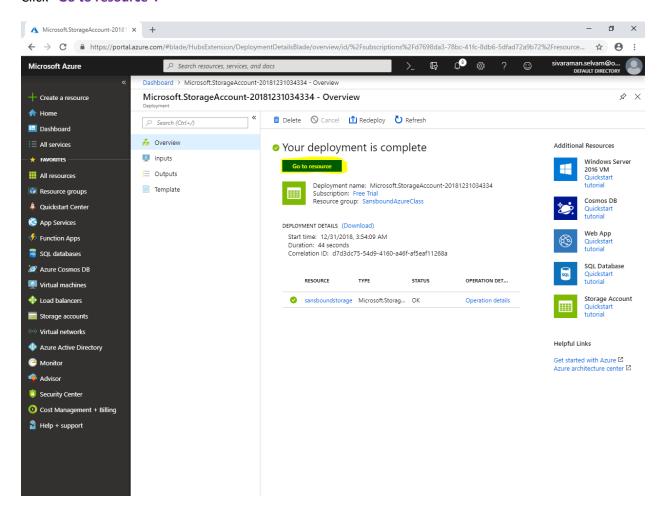


Click "Create".



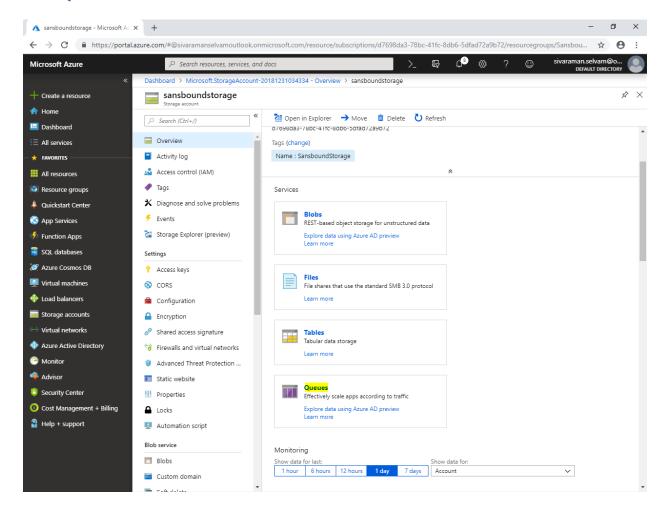


Click "Go to resource".



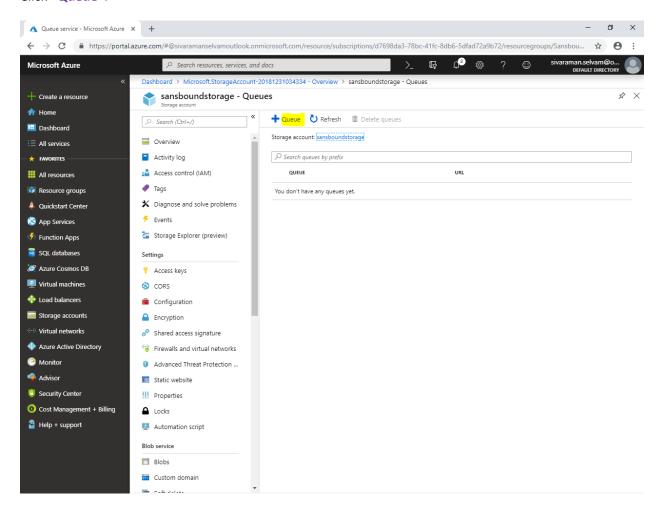


Click "Queues".





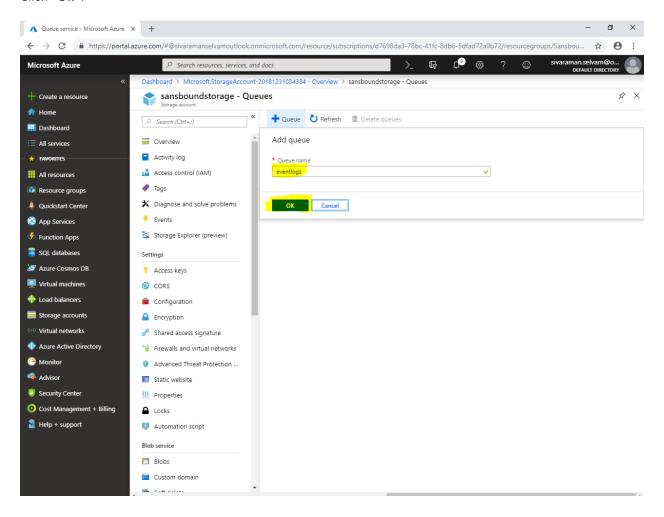
Click "Queue".





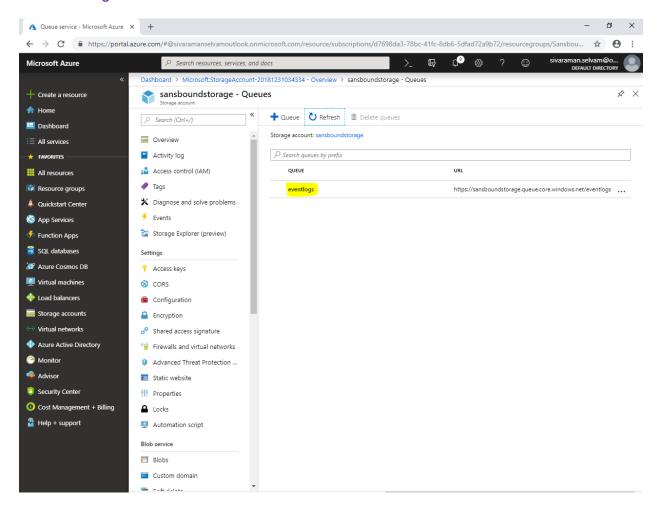
Type "Queue name" as "eventlogs".

Click "Ok".



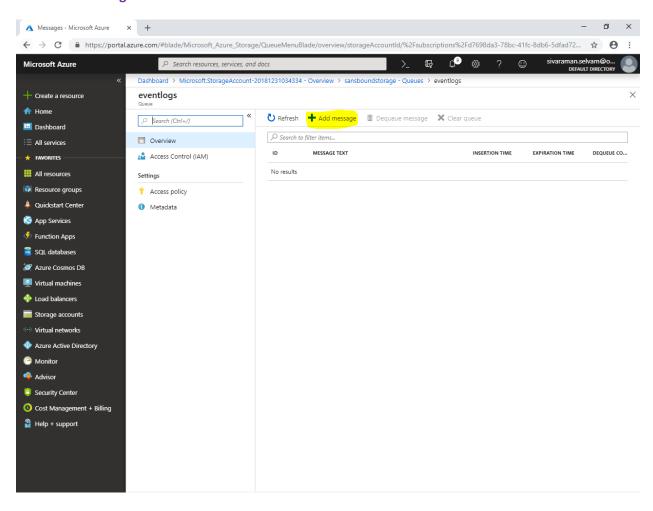


Click "eventlogs".





Click "Add message".

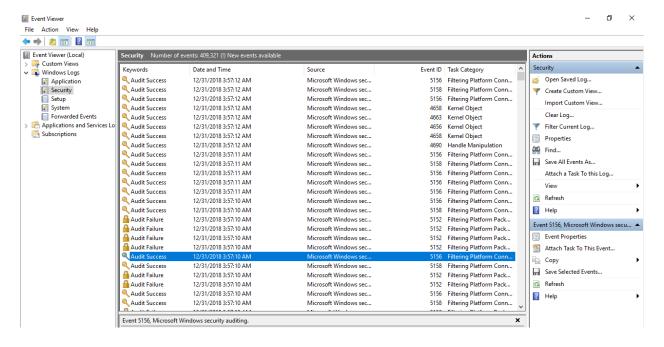




In your local machine / server launch event viewer,

In "Security"

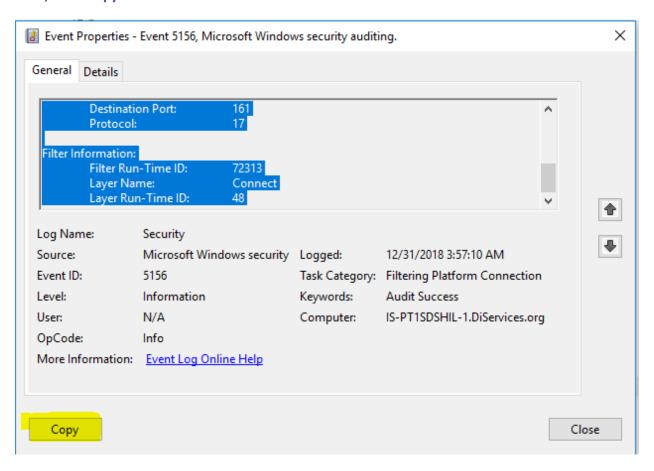
Select any "Audit Success" event and double click it.





Select entire event details for the event id.

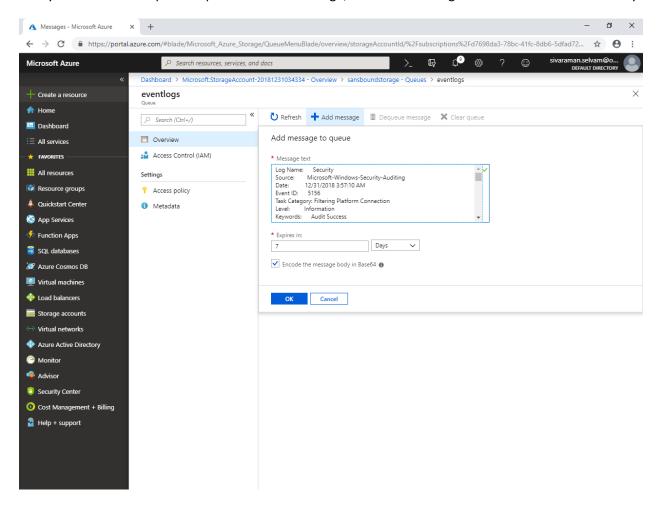
Then, click "Copy".





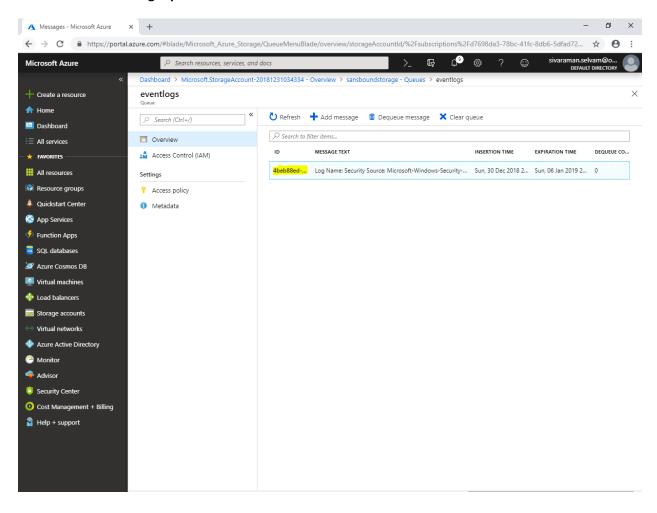
Paste the value in "Message text" at "Add message to queue".

Also you can set the expiration period for the message, after that message will be deleted automatically.





Click "Id of the message queue".





If you have required to delete the specific message, then select that message and then click "Dequeue message" / to click "Clear queue" to delete all messages in the queue.

