

Digital Adoption Platform

Setting Up Azure Service Bus for Datum360 Services

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Revision: 1

	<p>Digital Adoption Platform</p> <p>Setting Up Azure Service Bus for Datum360 Services</p>	<p>D360-GUD-TPRD-0009</p> <p>Issue Date: 20 Mar 2022</p> <p>Revision: 1</p>
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Revision History

Issue	Summary of changes
1	Issued for use

1	20 Mar 23	Issued for use	MF	20 Mar 23	EF	20 Mar 23	TP	20 Mar 23
Issue	Issue Date	Reason for Issue	Author	Date	Checked	Date	Approved	Date

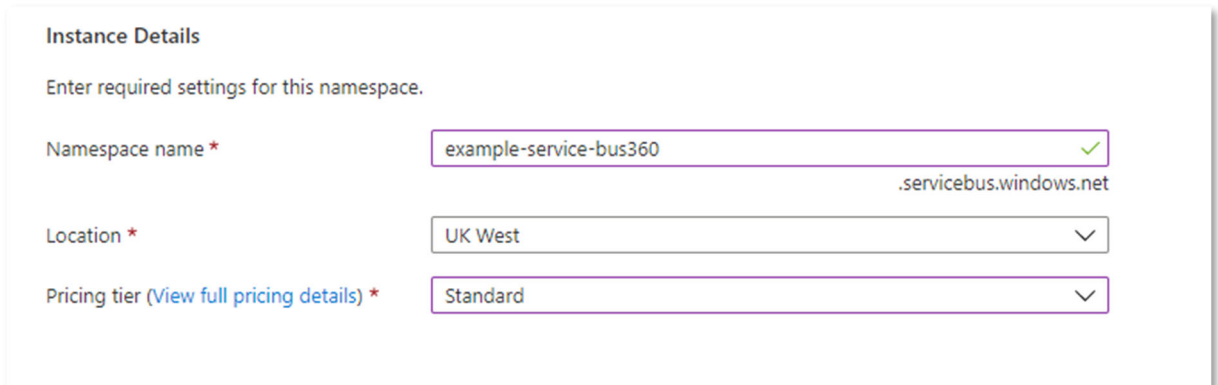
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1 Setting Up Azure Service Bus for Datum360

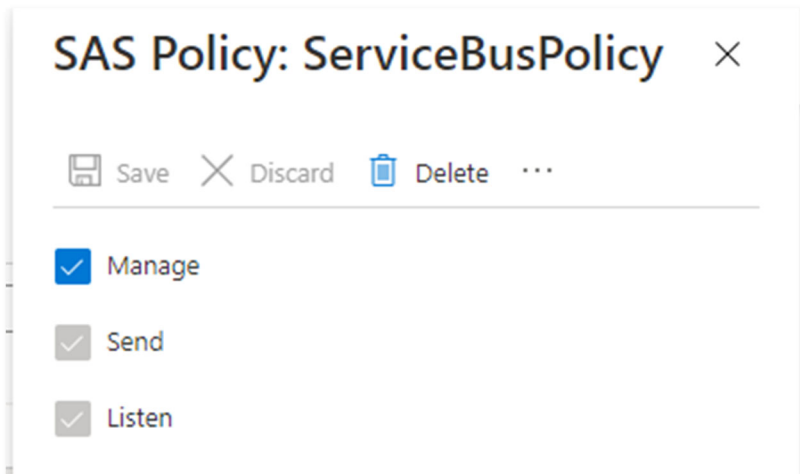
- 1.1.1 Create a service bus in Azure, The pricing tier must be set to **standard**. Not setting the pricing tier as standard will mean there is no access to topic creation.



The screenshot shows the 'Instance Details' form in the Azure portal. It prompts the user to 'Enter required settings for this namespace.' The form includes three fields: 'Namespace name *' with the value 'example-service-bus360' and a green checkmark, 'Location *' with the value 'UK West' and a dropdown arrow, and 'Pricing tier (View full pricing details) *' with the value 'Standard' and a dropdown arrow. The domain '.servicebus.windows.net' is visible next to the namespace name.

Fig 1. Pricing Tier Set as Standard

- 1.1.2 After the service bus is created, a **shared access policy** needs to be created to manage the service bus.
- 1.1.3 The name can be anything, however it must have claims set for: Manage, Send, Listen.



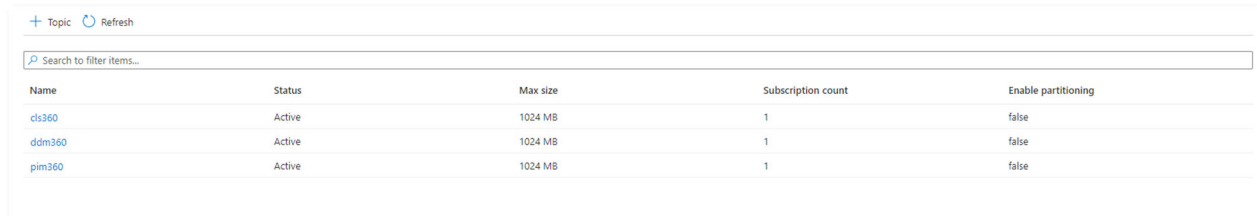
The screenshot shows the 'SAS Policy: ServiceBusPolicy' dialog box. It has a title bar with a close button (X). Below the title bar are three buttons: 'Save' (with a floppy disk icon), 'Discard' (with an X icon), and 'Delete' (with a trash can icon), followed by a three-dot menu. Below these buttons is a list of permissions with checkboxes: 'Manage' (checked), 'Send' (checked), and 'Listen' (checked).

Fig 2. Shared Access Policy Example

- 1.1.4 After the shared access policy has been created, it will have a **Primary Connection String** that begins with "Endpoint=". The value of this string should be provided to Datum360 so that Datum360 services can be registered with the new service bus.
- 1.1.5 Three topics must now be created for the service bus:

- a. pim360,
- b. cls360
- c. ddm360.

1.1.6 These topics are where the messages for the respective services will go to. The default topic settings can be used.



Name	Status	Max size	Subscription count	Enable partitioning
cls360	Active	1024 MB	1	false
ddm360	Active	1024 MB	1	false
pim360	Active	1024 MB	1	false

Fig 3. Example Topics

1.1.7 A subscription per topic is required to be created. This subscription will be used to receive messages.

Create subscription ...

Service Bus

Name * ⓘ

example-subscription ✓

Max delivery count * ⓘ

10 ✓

Auto-delete after idle for ⓘ

Days

14

Hours

0

Minutes

0

Seconds

0

☐ Never auto-delete☐ Forward messages to queue/topic ⓘ

MESSAGE SESSIONS

Service bus sessions allow ordered handling of unbounded sequences of related messages. With sessions enabled a subscription can guarantee first-in-first-out delivery of messages. [Learn more.](#)

☐ Enable sessions

MESSAGE TIME TO LIVE AND DEAD-LETTERING

Message time to live (default) ⓘ

Days

14

Hours

0

Minutes

0

Seconds

0

☐ Enable dead lettering on message expiration☐ Move messages that cause filter evaluation exceptions to the dead-letter subqueue

MESSAGE LOCK DURATION

Lock duration ⓘ

Days

0

Hours

0

Minutes

0

Seconds

30

Fig 4. Subscription Example

- 1.1.8 The Max delivery count is a required setting, it holds the number of times delivery can be attempted, for instance if the application collects the message, and then abandons it or fails to mark it as completed it, the message can be collected again up to the number of times of this parameter. It can be a value from 1 to 2000.
- 1.1.9 Once the subscriptions have been created and the Datum360 services have been connected to the service bus, messages received when a change is made in CLS360, PIM360 or DDM360 can be seen.

