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#### How Do I Create an Azure Service Bus?

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# Lasernet for Dynamics 365

### What is an Azure Service Bus?

From a very high level, an Azure Service Bus is the mechanism that Lasernet uses to send messages.

The description given by Microsoft is: "Azure Service Bus is a fully managed enterprise message broker with message queues and publish-subscribe topics(in a namespace)."

For more technical information about the Azure Service Bus see the <u>Microsoft</u> <u>documentation</u>.

The creation and configuration of the Azure Service Bus require users to create new resources in Azure. If you are unsure of how to work within Azure, then please contact your system administrator.

#### Where do we use it?

Azure Service Buses are used in several locations in the Lasernet products, such as the Connector to link Finance and Operations (FO) and Business Central (BC) to Lasernet, or linking to Cloud Printers. The following is an example Azure Service Bus referenced in the connections in the FO Connector.

### How do I create an Azure Service Bus?

In this article, we will show an example of how a service bus can be created, however for the latest information always refer to the <u>Microsoft guide</u>.

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1. Navigate to the Azure portal, and log in.

3. Click the Service Bus icon. You will be taken to a page with a list of all the Service Buses currently configured.

Service Bus 🖈 … Fompipe Software A8 (formpipe2se.emea.microsoftonline.com)					
🕂 Create 🛞 Manage view 🗸 🕐 Refresh 🞍 Export to CSV 😚 Open query 🛛 🕅 Assign tags 🗎 Delete					
Filter for any field Subscription equals 2 of 3 selected Resource group equals all X Location equals all X 4 Add	filter				
Showing 1 to 27 of 27 records.					
□ Name ↑↓	Status ↑↓	Tier $\uparrow_\downarrow$	Location $\uparrow_\downarrow$		
alptest	Active	Basic	North Europe		
CamtasiaVideos	Active	Basic	North Europe		
CherylLocalPrinterLN10	Active	Basic	France Central		
C S cherylmorris	Active	Basic	North Europe		
Configtest1	Active	Basic	West Europe		
Configtest2	Active	Basic	West Europe		
C cpdemo2	Active	Standard	West US		
CRMConnectDelivery	Active	Basic	North Europe		

4. Click Create.

Service Bus 🖈 …
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🕂 Create 🚳 Manage view 🗸 🖒 Refresh 🛓 Export to CSV 😚 Open query 🛛 🖉 Assign ta
Filter for any field       Subscription equals 2 of 3 selected       Resource group equals all       ×

The following screen will be displayed:

	Microsoft Azure						
Hom	Home > Service Bus >						
	Create namespace Service Bus						
	Basics Advanced Networking	Tags Review + create					
	Select the subscription to manage deployed manage all your resources.	d resources and costs. Use resource groups like folders to organize and					
1	Subscription *	Private Delivery	~				
2	Resource group *	Create new	~				
	Instance Details						
	Enter required settings for this namespace.						
3	Namespace name *	.servicebus.windows.	net				
4	Location *	North Europe	~				
5	Pricing tier *		~				
-		Browse the available plans and their features					

1. Subscription

The Azure subscription to which the service bus will be billed, accept the default, or check with your system administrator to confirm which subscription to use.

2. Resource Group	Resource Groups are used to help better organize Azure resources, customers usually have a "Lasernet" Resource Group to select here.
3. Namespace Name	The name of the Azure Service Bus. If your organization has a naming convention then be sure to follow it.
4. Location	The location of the physical hardware which hosts the Service Bus, for a test instance the default will be fine but it is best practice to select the location closest to your Finance and Operations and Lasernet resources for a production instance. If you're unsure ask a system administrator.
5. Pricing Tier	For most use cases, the Basic Tier for Test and Production is sufficient. Unless you print 500K reports per month (or 250K per month using Cloud Print) you will not reach the limit of Basic Tier.

5. Fill out the fields as described above.

Iome > Service Bus >					
Service Bus	ate namespace Bus				
Basics Advanced Networking	Tags Review + create				
Project Details					
Select the subscription to manage deployed manage all your resources.	d resources and costs. Use resource groups like folders to organize and				
Subscription *	Private Delivery	$\sim$			
Resource group *	NFGTest	$\checkmark$			
Instance Details					
Enter required settings for this namespace.					
Namespace name *	DocumentTest	<b>~</b>			
	.servicebus.windows	.net			
Location *	North Europe	$\sim$			
Pricing tier *	Basic (~\$0.05 USD per 1M Operations per Month) Browse the available plans and their features	$\checkmark$			

6. Click **Review + create**.

Pricing tier *		Basic (~\$0.05 USD per 1M Operations per Month)
		Browse the available plans and their features
Review + create	< Previous	Next: Advanced >

Azure will run basic checks on your configuration, and then display a "Validation succeeded" message.



7. Click Create.

Minimur Local Au	m TLS version Ithentication	1.2 Enabled
Create	< Previous	Next >

The deployment will begin, and Azure will confirm that it is in progress.

Beployment	rview 🖈 …			
	🗊 Delete 🚫 Cancel 🖄 Redeploy 🛓 Download 🖒 Refresh			
👶 Overview	Doploymont is in progress			
😨 Inputs				
š⊟ Outputs	Deployment name: DocumentTest Subscription: Private Delivery	Start time: 4/12/2023, 10:31:39 AM Correlation ID: 1664bba7-dd5d-4768-bdfd-98ef32c3d076		
📄 Template	Resource group: NFGTest			
	∧ Deployment details			
	Resource	Туре	Status	
	No results.			
Give feedback				
	$ ot\!$			

Once the deployment is complete the following message will be displayed:

BocumentTest   Ove	erview 🖈 …	
	🗐 Delete 🛇 Cancel 🏦 Redeploy 🞍 Download 🖒 Refresh	
👶 Overview	Nour deployment is complete	
😫 Inputs	V Tour deployment is complete	
š≡ Outputs	Deployment name: DocumentTest Subscription: Private Delivery	Start time: 4/12/2023, 10:31:39 AM Correlation ID: 1664bba7-dd5d-4768-bdfd-98ef32c3d076 🗓
📄 Template	Resource group: NFGTest	_
	✓ Deployment details	
	∧ Next steps	
	Go to resource	
	Give feedback	
	$\ensuremath{\mathcal{R}}$ Tell us about your experience with deployment	

8. Click **Go to resource** to be taken to the new Service Bus.

## Generate a connection string for Lasernet

Now the service bus has been created, we need to get the information that allows Lasernet to use it to send messages, this is the connection string. When you click **Go to resource** in the previous section, you will be directed to this page:

Home > DocumentTest   Overview >			
Service Bus Namespace	<b>*</b> ···		
₽ Search «	🕂 Queue 🕂 Topic 🕐 Refresh 🔋 Delete 🔗 Feedback		
Overview	∧ Essentials		
Activity log	Resource group (move) : NFGTest	Created	: Wednesday, April 12, 2023
Access control (IAM)	Status : Active	Updated	: Wednesday, April 12, 2023
Tags	Location : North Europe	Pricing tier	: Basic
Diagnore and rolus problem:	Subscription (move) : Private Delivery	Host name	: DocumentTest.servicebus.windows.net
2 Diagnose and solve problems	Subscription ID :	Local Authentication	on : Enabled
Settings	Tags (edit) : <u>Click here to add tags</u>		
Shared access policies     Geo-Recovery	Show data for the last: Thour 12 hours 12 hours 1 day 7 days 30 days		
Encryption	Requests	Messages	
Configuration	100	100	
Properties	90 60	- 90	
A task		70	
	_50	60	
Entities	50	50	
Queues	20	30	
Monitoring	20	20	
Consider (President)	10	10	
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Alerts	Rocming Request Goomerstatt documentatt Sourceffort Reguests _ documentatt documentatt	Incoming Messages (Sur documentest	Outgoing Messages (Sum) documentast
na Metrics		0	0
Diagnostic settings	Queues Topics		
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Workbooks	>> Search to Inter Rems		

1. Under Settings, click **Shared access policies**.

[	Home > DocumentTest   Overview >	Home > DocumentTest   Overview > DocumentTest			
	PocumentTest   Shared access policies ★ …     Service Bus Namespace				
	₽ Search «	« + Add			
	Overview	Search to filter items			
	Activity log	Policy Claims	s		
	Access control (IAM)	RootMananeShared&cressKey     Mana	ae. Send. Listen		
	🗳 Tags		,.,,		
	Diagnose and solve problems				
	Settings				
	Shared access policies				

2. There is already an access policy that we can use, click the

RootManageSharedAccessKey policy and the following screen is displayed:

SAS Policy: RootManageSharedAccessKey	×
🔚 Save 🗙 Discard 📋 Delete 🗘 Regenerate Primary Key …	
✓ Manage	
Send	
✓ Listen	
Primary Key	R
	U U
Secondary Key	D
Primary Connection String	. 🗅
Secondary Connection String	_
	🗅
SAS Policy ARM ID	D

There are different keys and strings displayed.

3. Copy the **Primary Connection String** by using the copy icon indicated.

The string can be copied into the Lasernet Connector, or into the Azure Service Bus input in Lasernet to allow the product to communicate using the Azure Service Bus.

An example:

**Create a Queue Name** In this example, the configuration also needs a Queue Name. This can be created from within FO, or from within the service bus.

1. From the Resource Overview page, select **Queues**.

Home > DocumentTest   Overview >	<b>*</b>		
Service Bus Namespace			
	+ Queue + Topic 🖒 Refresh 🔋 Delete 🖗 Feedback		
Overview	∧ Essentials		
Activity log	Resource group (move) : NFGTest	Created	: Wednesday, April 12, 2023
Access control (IAM)	Status : Active	Updated	: Wednesday, April 12, 2023
Tags	Location : North Europe	Pricing tier	: Basic
Diagnose and solve problems	Subscription (move) : Private Delivery	Host name	: DocumentTest.servicebus.windows.net
p bignese and some problems	Subscription ID :	Local Authentication	on : Enabled
Settings	Tags (edit) : Click here to add tags		
Shared access policies			
Geo-Recovery	Show data for the last: Thours 1 day 7 days 30 days		
Encryption	Requests	Messages	
Configuration	100	100	
Properties	90 80	80	
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	80	60	
Entities	50 40		
Queues		30	
Monitoring	- 20	20	
S Inciphte (Preview)	10	. 10	
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Alerts	Incoming Request Game documentant documentant documentant	Incoming Messages (Sur documenttest	Outgoing Messages (Sum) documentast
Metrics		0	0
Diagnostic settings	Queues Topics		
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Workbooks	Assert to inter interior		

2. Add a new **Queue**.

$\equiv$ Microsoft Azure				
Home > DocumentTest   Overview > DocumentTest				
Service Bus Namespace Queues ☆ …				
₽ Search «	+ Queue 🖒 Refresh 🔗 Feedback			
Overview	CreateQueue			
Activity log	> Search to flitter items			
Access control (IAM)	Name			
🗳 Tags	No results.			
Diagnose and solve problems				

3. Give the queue a sensible name, keep the other fields as default, and click **Create**.

Create q Service Bus	ueue			×
Name * 🕕				
Lasernet				~
Max queue size				
IGB				$\sim$
Max delivery co	unt * 🛈			
10				
Message time to	olive 🛈			
Days	Hours	Minutes	Seconds	
14	0	0	0	
Lock duration	5			
Days	Hours	Minutes	Seconds	
0	0	1	0	
Enable dead lettering on message expiration ③     Enable partitioning ④				
Create	Create			

Note

Micorosft ® defines the purpose of dead lettering as holding messages (this requires a dead-letter queue) that cannot be delivered to any receiver or messages that could not be processed.

For more information, visit this link:

https://learn.microsoft.com/en-us/azure/service-bus-messaging/service-bus-dead-letter-que ues

When you copy the connection string into FO, you will be able to select the queue name from the drop-down.

P Filter	Standard view ~ Connections
Connection type	Identification
Connection id Environme : ASB	Connection id Connection type Environment id ASB Azure service bus queue
AST	Settings
Azure Service Bus - Cloud Pr	
Azure Storage - Cloud Print	Connection string
	Queue name