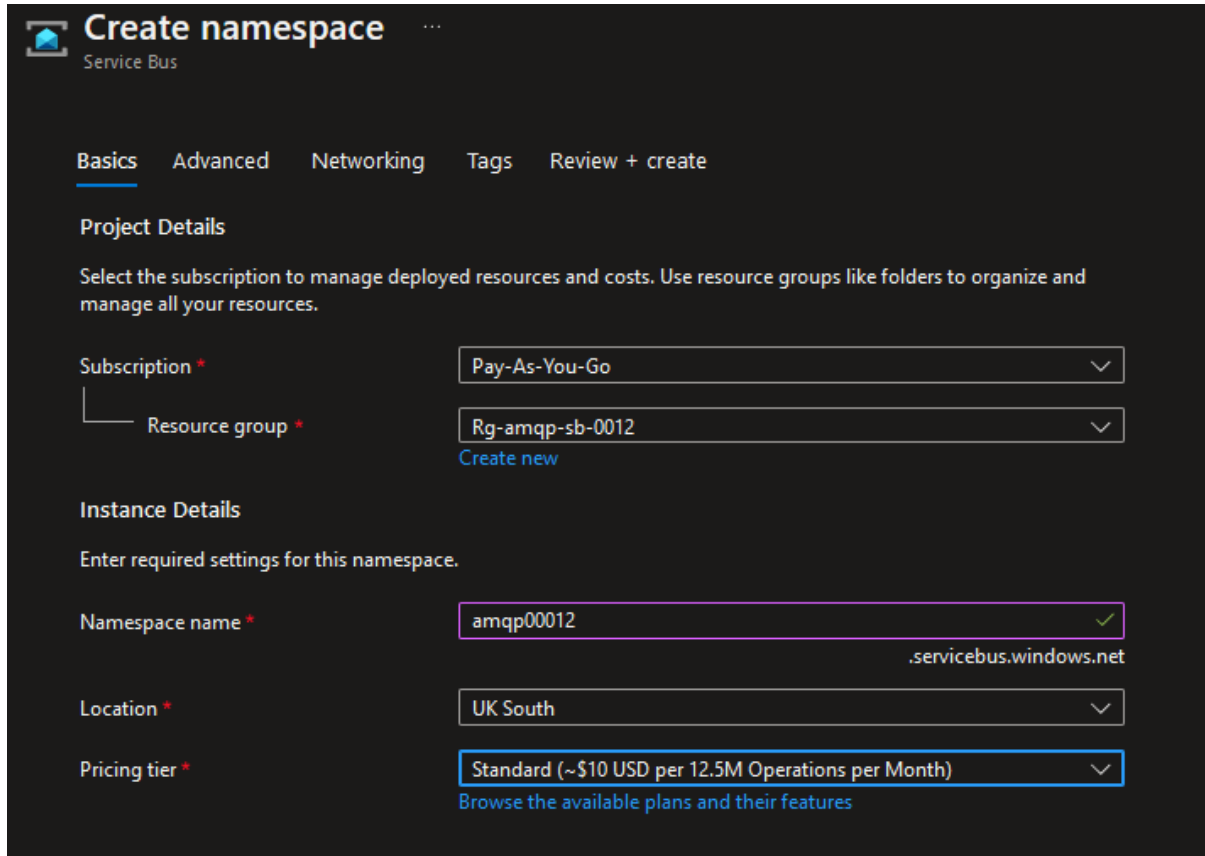Test 7

How to integrate Service Bus with RabbitMQ - Azure Service Bus | Microsoft Learn

Adding a new Azure Service Bus Namespace

Tls

Networking

Creating our Azure Service Bus Queue

Create queue

Service Bus

Name * ⓘ

amqp12 ✓

Max queue size

1 GB ⌄

Max delivery count * ⓘ

10

Message time to live ⓘ

Days	Hours	Minutes	Seconds
1 ✓	0	0	0

Lock duration ⓘ

Days	Hours	Minutes	Seconds
0	0	1	0

☐ Enable auto-delete on idle queue ⓘ

☐ Enable duplicate detection ⓘ

☐ Enable dead lettering on message expiration ⓘ

☐ Enable partitioning ⓘ

☐ Enable sessions ⓘ

☐ Forward messages to queue/topic ⓘ

Create   ⅋ Give feedback
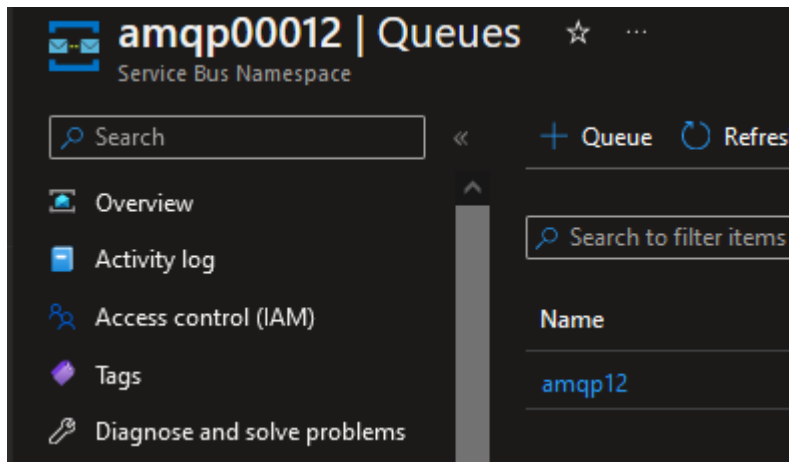
Enabling the RabbitMQ Shovel Plugin

```
2023-07-12 17:52:47.442000+02:00 [info] <0.678.0> started TCP listener on [::]:5672
2023-07-12 17:52:47.443000+02:00 [info] <0.696.0> started TCP listener on 0.0.0.0:5672
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0> Server startup complete; 6 plugins started.
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_shovel_management
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_shovel
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_amqp1_0
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_management
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_web_dispatch
2023-07-12 17:52:47.542000+02:00 [info] <0.544.0>  * rabbitmq_management_agent
```

Connecting RabbitMQ to Azure Service Bus
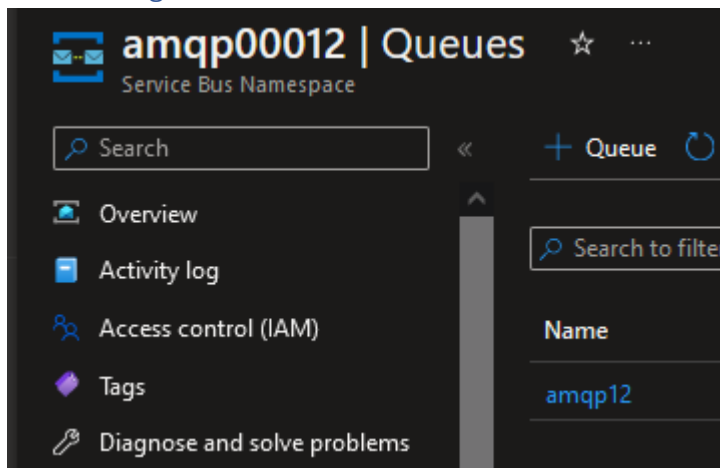
Make policy
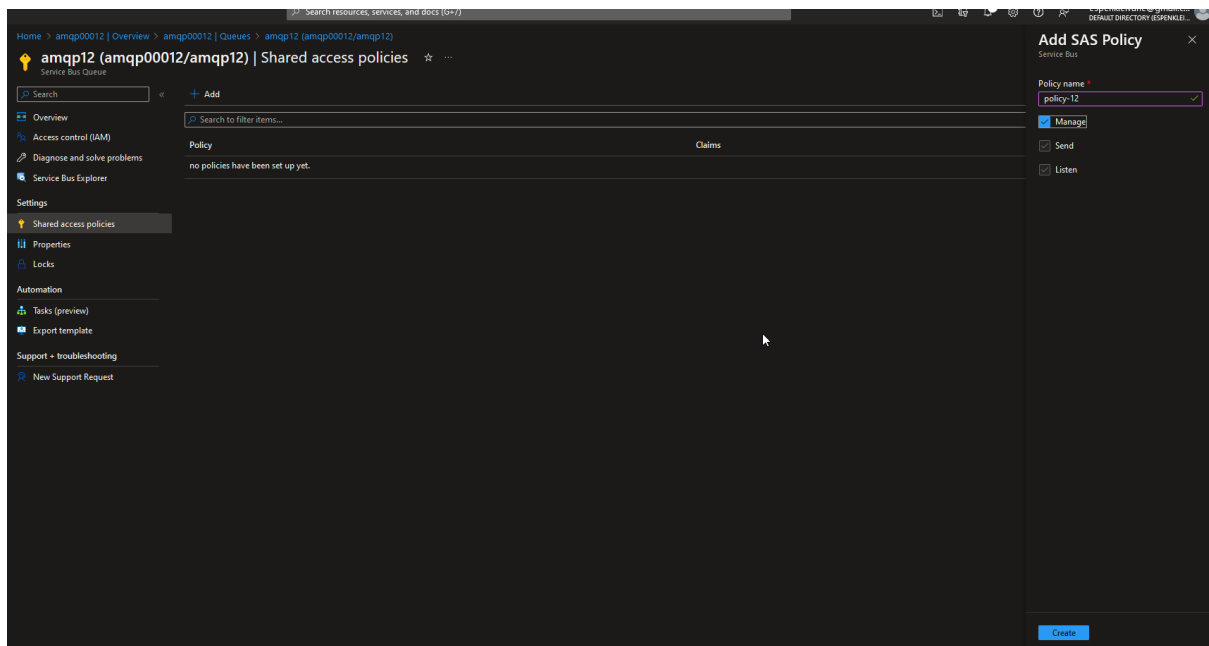
Get pimary connection string
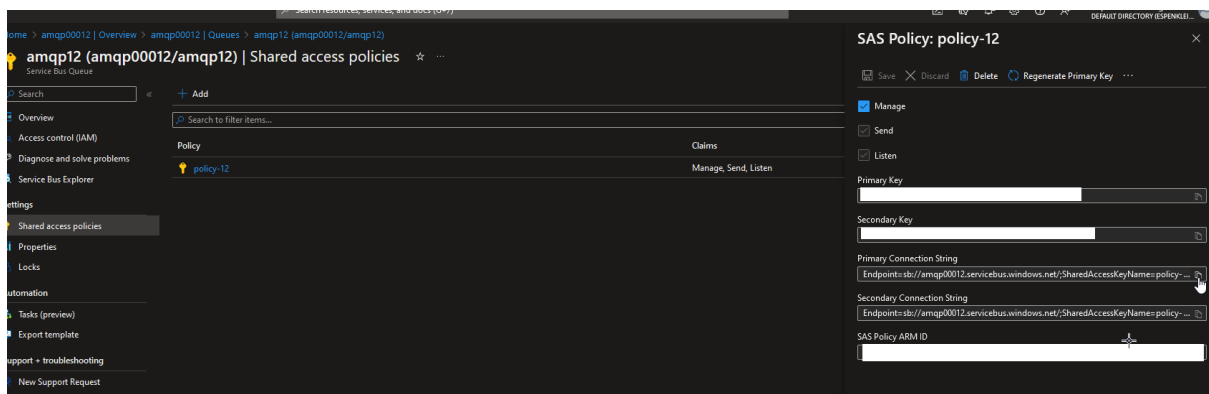
SAS Policy: policy-12

✕

💾 Save   ✕ Discard   🗑 Delete   ⟳ Regenerate Primary Key   ⋯

☑ Manage

☑ Send

☑ Listen

Primary Key

☐

Secondary Key

☐

Primary Connection String

Endpoint=sb://amqp00012.servicebus.windows.net/;SharedAccessKeyName=policy- ...   📋

Secondary Connection String

Endpoint=sb://amqp00012.servicebus.windows.net/;SharedAccessKeyName=policy- ...   📋

SAS Policy ARM ID

Convert

Connection String to AMQP

This is a static web app. All processing is done locally. **No data from the form is sent to Azure.**
Paste your Azure Service Bus / Event Hubs Connection String and convert it to RabbitMQ's AMQP format.

Azure Service Bus Connection String

Endpoint=sb://amqp00012.servicebus.windows.net/;SharedAccessKeyName=policy-12;SharedAccessKey=███████████████████████=;EntityPath=amqp12

Convert

RabbitMQ Shovel AMQP Connection String

amqps://policy-12:████████████████████D@amqp00012.servicebus.windows.net:5671/?sasl=plain

Copy To Clipboard

You can see the sourcecode on GitHub. Powered By Azure Static Web Apps.

Tnc

```
PS C:_____ > Test-NetConnection -ComputerName amqp00012.servicebus.windows.net -Port 5671

ComputerName      : amqp00012.servicebus.windows.net
RemoteAddress     : _____
RemotePort        : 5671
InterfaceAlias    : _____
SourceAddress     : _____
TcpTestSucceeded  : True
```

Make shovel

RabbitMQ™   RabbitMQ 3.12.1   Erlang 26.0

Queue in RMQ

/	**telemetrybus12**	classic	D	idle	0	0	0

▼ **Add a new shovel**

Name:	shovel_12 *
Source:	AMQP 0.9.1 ⌄
URI: ?	Queue: ⌄ ?
	amqp:// * telemetrybus12
Prefetch count: ?	
Auto-delete ?	Never ⌄
Destination:	AMQP 1.0 ⌄
URI: ?	amqps://policy-12:____ *
Address: ?	amqp12
Add forwarding headers: ?	No ⌄
Reconnect delay: ?	s
Acknowledgement mode: ?	On confirm ⌄

Add shovel

Name	Source				Destination			Reconnect Delay	Ack mode	Auto-delete
	Protocol	Uri	Endpoint	Prefetch	Protocol	Uri	Endpoint	Add headers		
my-shovel	amqp091	amqp://localhost	queue01 queue		amqp10	amqp://localhost	queue02	?	?	?
shovel_12	amqp091	amqp://	telemetrybus12 queue		amqp10	amqps://policy-12:[redacted]@amqp00012.servicebus.windows.net:5671/?...	amqp12	○	on-confirm	never

Shovel status

Shovel Status

Name	State	Source			Destination			Last changed	Operations
my-shovel dynamic	🟩 running	amqp091	amqp://localhost	queue01 queue	amqp10	amqp://localhost	queue02	2023-07-12 17:52:47	Restart
shovel_12 dynamic	🟩 starting	?	?	as published exchange	?	?	as published exchange	2023-07-12 18:01:13	Restart

Shovel log

```
2023-07-12 18:07:44.719000+02:00 [error] <0.3130.0> Shovel 'shovel_12' could not connect to destination
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>    supervisor: {<0.1052.0>,rabbit_shovel_dyn_worker_sup}
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>    errorContext: child_terminated
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>    reason: {shutdown,normal}
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>    offender: [{pid,<0.3130.0>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>               {id,{<<"/">>,<<"shovel_12">>}},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>               {mfargs,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                  {rabbit_shovel_worker,start_link,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                     [dynamic,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                      {<<"/">>,<<"shovel_12">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                      [{<<"dest-uri">>,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                        [{encrypted,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                          <<"███████████████████████████████████████
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"src-uri">>,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                        [{encrypted,
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                          <<"████████████████████████████████████████████████████████████">>}]},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"ack-mode">>,<<"on-confirm">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"dest-add-forward-headers">>,false},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"dest-address">>,<<"amqp12">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"dest-protocol">>,<<"amqp10">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"src-delete-after">>,<<"never">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"src-protocol">>,<<"amqp091">>},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                       {<<"src-queue">>,<<"telemetrybus12">>}]]}},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                   {restart_type,{permanent,5}},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                   {shutdown,4294967295},
2023-07-12 18:07:44.719000+02:00 [error] <0.1052.0>                   {child_type,worker}]
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>    supervisor: {<0.1052.0>,rabbit_shovel_dyn_worker_sup}
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>    errorContext: child_terminated
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>    reason: {shutdown,normal}
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>    offender: [{pid,{restarting,<0.3130.0>}},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>               {id,{<<"/">>,<<"shovel_12">>}},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>               {mfargs,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                  {rabbit_shovel_worker,start_link,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                     [dynamic,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                      {<<"/">>,<<"shovel_12">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                      [{<<"dest-uri">>,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                        [{encrypted,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                          <<"████████████████████████████████████████
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"src-uri">>,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                        [{encrypted,
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                          <<"████████████████████████████████████████████████████████████">>}]},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"ack-mode">>,<<"on-confirm">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"dest-add-forward-headers">>,false},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"dest-address">>,<<"amqp12">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"dest-protocol">>,<<"amqp10">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"src-delete-after">>,<<"never">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"src-protocol">>,<<"amqp091">>},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                       {<<"src-queue">>,<<"telemetrybus12">>}]]}},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                   {restart_type,{permanent,5}},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                   {shutdown,4294967295},
2023-07-12 18:07:49.722000+02:00 [error] <0.1052.0>                   {child_type,worker}]
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>  crasher:
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>    initial call: amqp10_client_frame_reader:init/1
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>    pid: <0.3174.0>
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>    registered_name: []
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>    exception exit: {options,incompatible,
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>                        [{verify,verify_peer},{cacerts,undefined}]}
2023-07-12 18:07:49.728000+02:00 [error] <0.3174.0>      in function  gen_statem:init_result/8 (gen_statem.erl, line 1005)
```