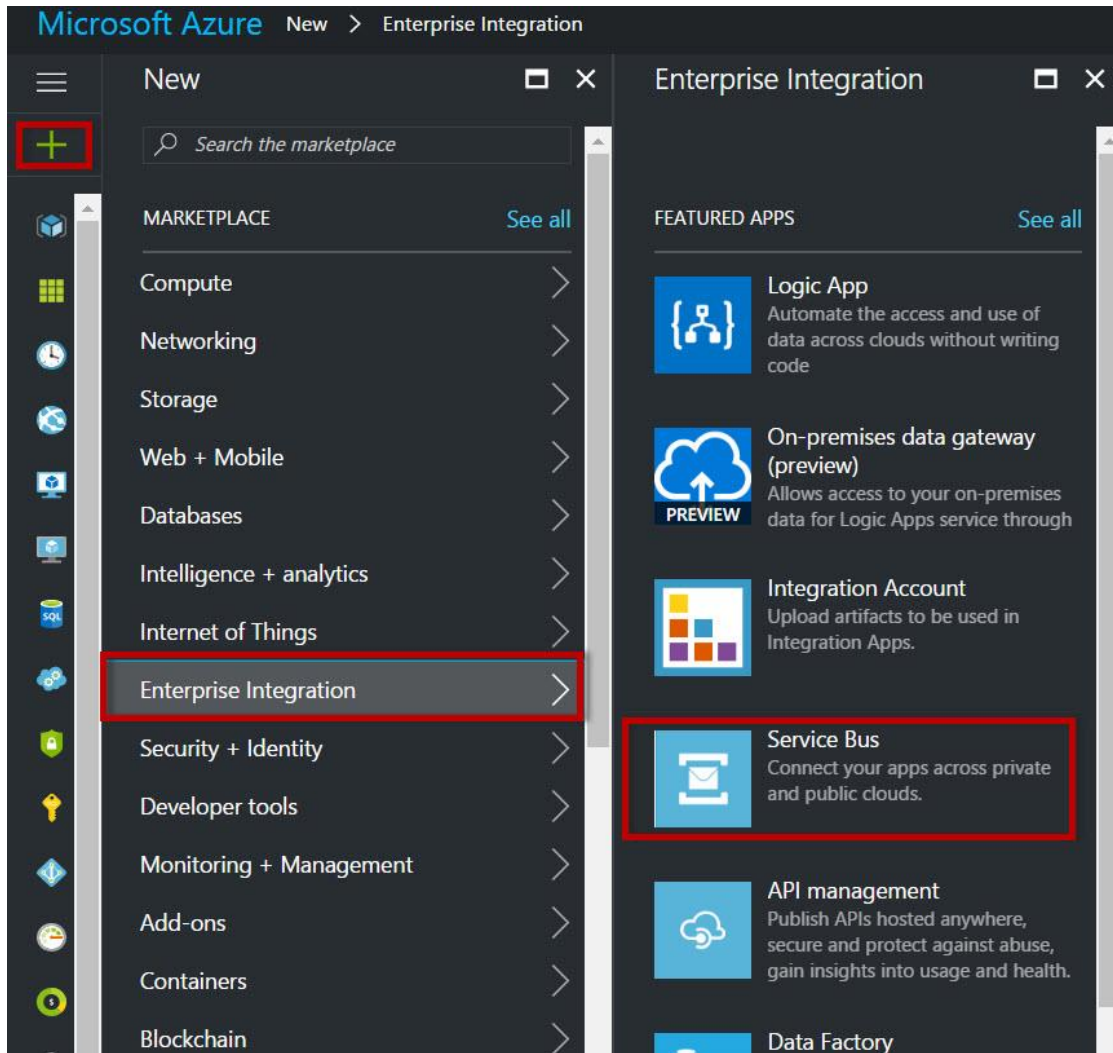


Service Bus – Topics

Step 1: Navigate to Azure Portal.

Step 2: Click on +New -> Enterprise Integration -> Service Bus



Step 3: Enter Service Bus Namespace Name, Choose Pricing Tier, Resource Group, Location

Create namespace

Service Bus - PREVIEW

* Name

azureservicebus

✓

.servicebus.windows.net

* Pricing tier

Standard

>

* Subscription

▼

* Resource group ⓘ

☒ Create new

☐ Use existing

servicebus-rg

✓

* Location

Central India

▼

☒ Pin to dashboard

Create

[Automation options](#)

Step 4: Click on **+ Topics** to create new Topics

The screenshot shows the Azure Service Bus console interface. The left sidebar contains navigation options: Overview (highlighted with a red box), Access control (IAM), Tags, Diagnose and solve problems, and a SETTINGS section with Shared access policies and Scale. The main content area displays the 'Overview' page for a Service Bus instance. At the top, there are buttons for '+ Queue', '+ Topic' (highlighted with a red box), 'Delete', and 'Convert'. Below these buttons, the 'Essentials' section shows details about the resource group (servicebus-rg), status (Active), location (Central India), subscription name (BizSpark), and subscription ID (93056e46-1ea9-423f-8b7d-cece4be75fec). On the right, there are links for Pricing tier (Standard), Connection Strings, and Connection Strings.

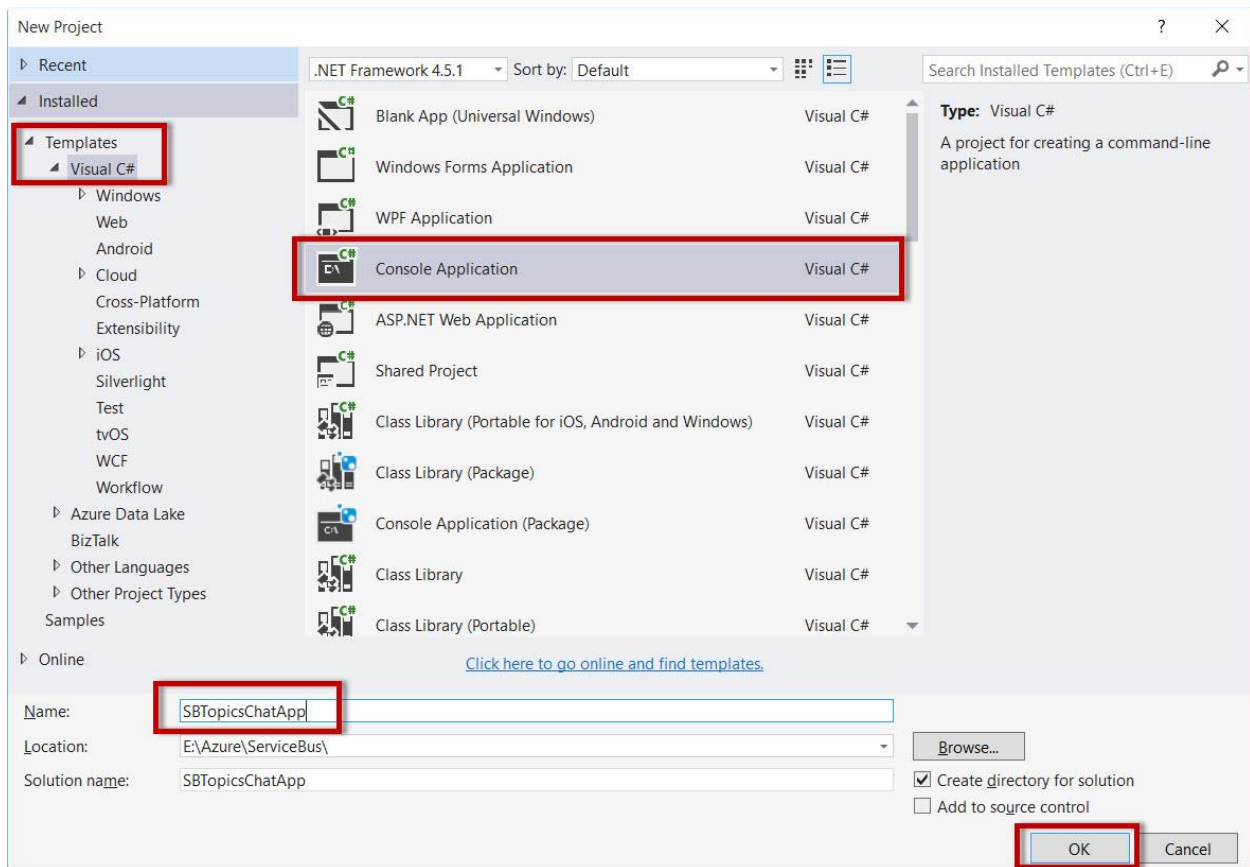
Enter Topics Name, Max Size, etc

The screenshot shows the 'Create topic' dialog box in the Azure Service Bus console. The dialog is titled 'Create topic' and has a close button (X) in the top right corner. It contains the following fields and options:

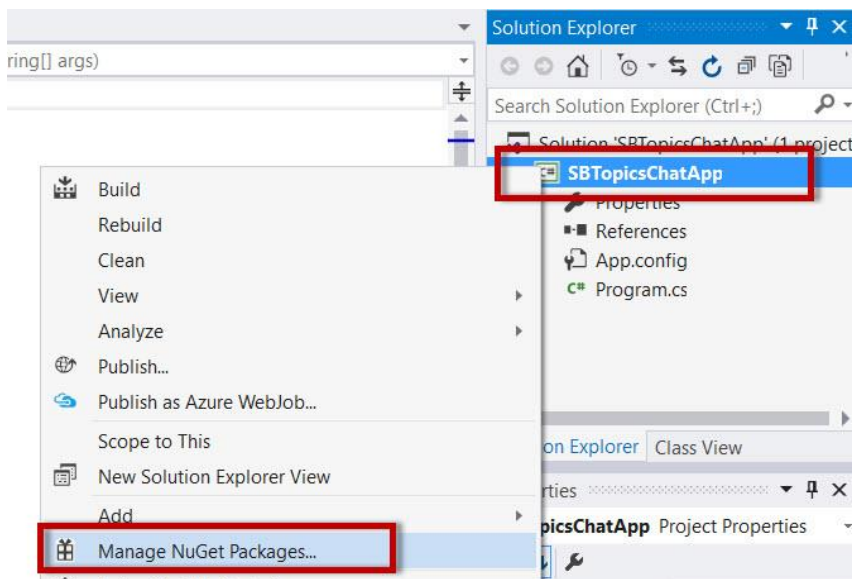
- Name:** A text input field with the value 'sbttopics' and a green checkmark indicating it is valid.
- Max size:** A dropdown menu with the value '1 GB' selected.
- Message time to live (default):** A text input field with the value '14' and a dropdown menu with the value 'days' selected.
- Enable duplicate detection:** An unchecked checkbox.
- Enable partitioning:** A checked checkbox.

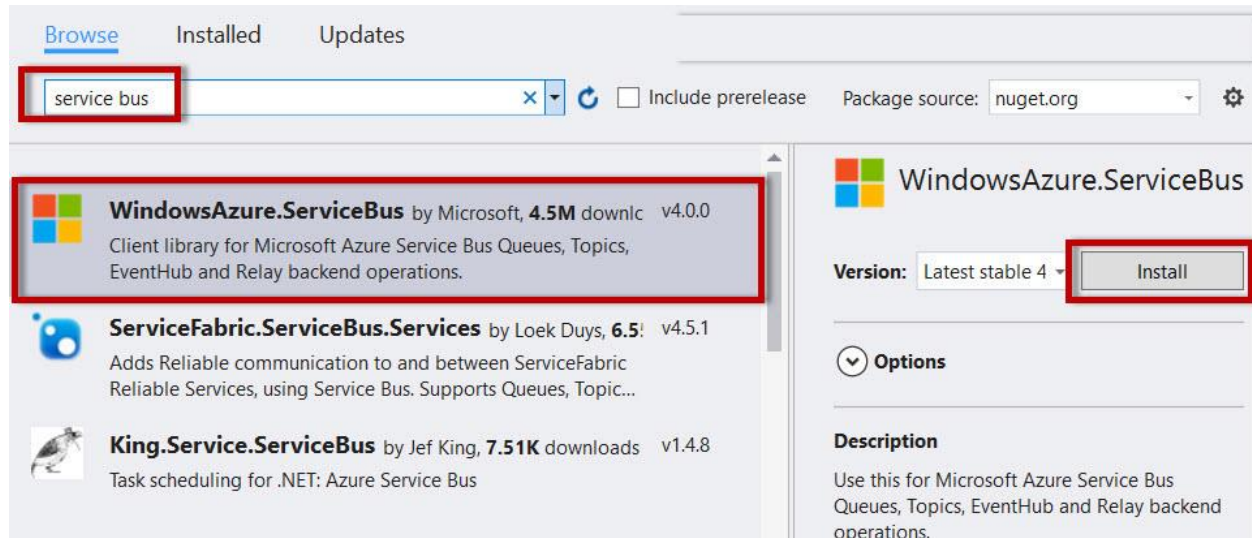
Step 5: Start Visual Studio & Choose Visual C# Template.

Create New Console Application

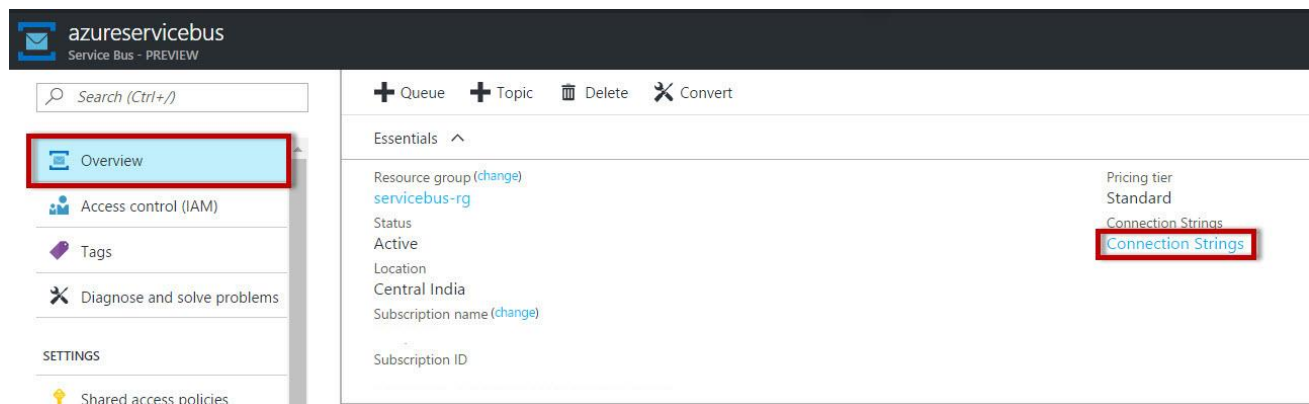


Step 6: Right click on Project Name & select “Manage NuGet Packages...”





Step 7: Navigate to Azure Portal & Select **Connection String** option.



Click on Copy option & paste into **program.cs** file

The screenshot displays the Azure Service Bus Shared Access Policies interface. On the left, the 'Shared access policies' list shows 'RootManageSharedAccessKey' selected. On the right, the 'Policy: RootManageSharedAccessKey' details are shown. The 'CONNECTION STRING-PRIMARY KEY' field is highlighted with a red box, containing the text 'Endpoint=sb://azureservicebus.servicebus.windows.net/'.

Step 8: Add Service Bus Namespace

```
using Microsoft.ServiceBus;
using Microsoft.ServiceBus.Messaging;

namespace SBTopicsChatApp
{
    class Program
    {
        static string ConnectionString =
"Endpoint=sb://azureservicebus.servicebus.windows.net/;SharedAccessKeyName=RootManageShar
edAccessKey;SharedAccessKey=<copy-servicebus-sharedkey-from-azure-portal>";
        static string TopicPath = "sbttopics";

        static void Main(string[] args)
        {
            Console.WriteLine("Enter Name - ");
            var username = Console.ReadLine();

            var manager = NamespaceManager.CreateFromConnectionString(ConnectionString);
            if (!manager.TopicExists(TopicPath))
            {
                manager.CreateTopic(TopicPath);
            }
            var description = new SubscriptionDescription(TopicPath, username);
            {
                description.AutoDeleteOnIdle = TimeSpan.FromMinutes(5);
            }
            manager.CreateSubscription(description);
        }
    }
}
```

```

        var factory = MessagingFactory.CreateFromConnectionString(ConnectionString);
        var topicClient = factory.CreateTopicClient(TopicPath);
        var subscriptionClient = factory.CreateSubscriptionClient(TopicPath,
username);

        subscriptionClient.OnMessage(msg => ProcessMessage(msg));
        var hellomessage = new BrokeredMessage("Has entered the Room...");
        hellomessage.Label = username;
        topicClient.Send(hellomessage);
        while (true)
        {
            string text = Console.ReadLine();
            if (text.Equals("exit")) break;
            var chatMessage = new BrokeredMessage(text);
            chatMessage.Label = username;
            topicClient.Send(chatMessage);
        }

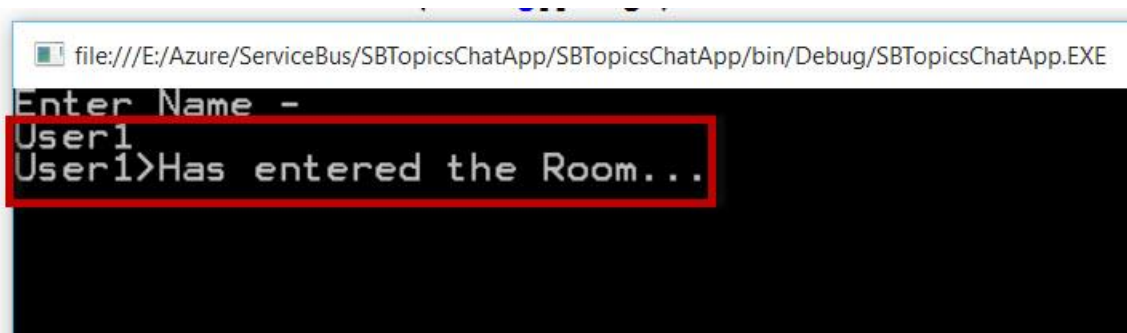
        var goodbyeMessage = new BrokeredMessage("Has left the building....");
        goodbyeMessage.Label = username;
        topicClient.Send(goodbyeMessage);
        factory.Close();
    }

    static void ProcessMessage(BrokeredMessage message)
    {
        string user = message.Label;
        string text = message.GetBody<string>();
        Console.WriteLine(user + ">" + text);
    }
}

```

Step 9: Now run the project

Enter Name

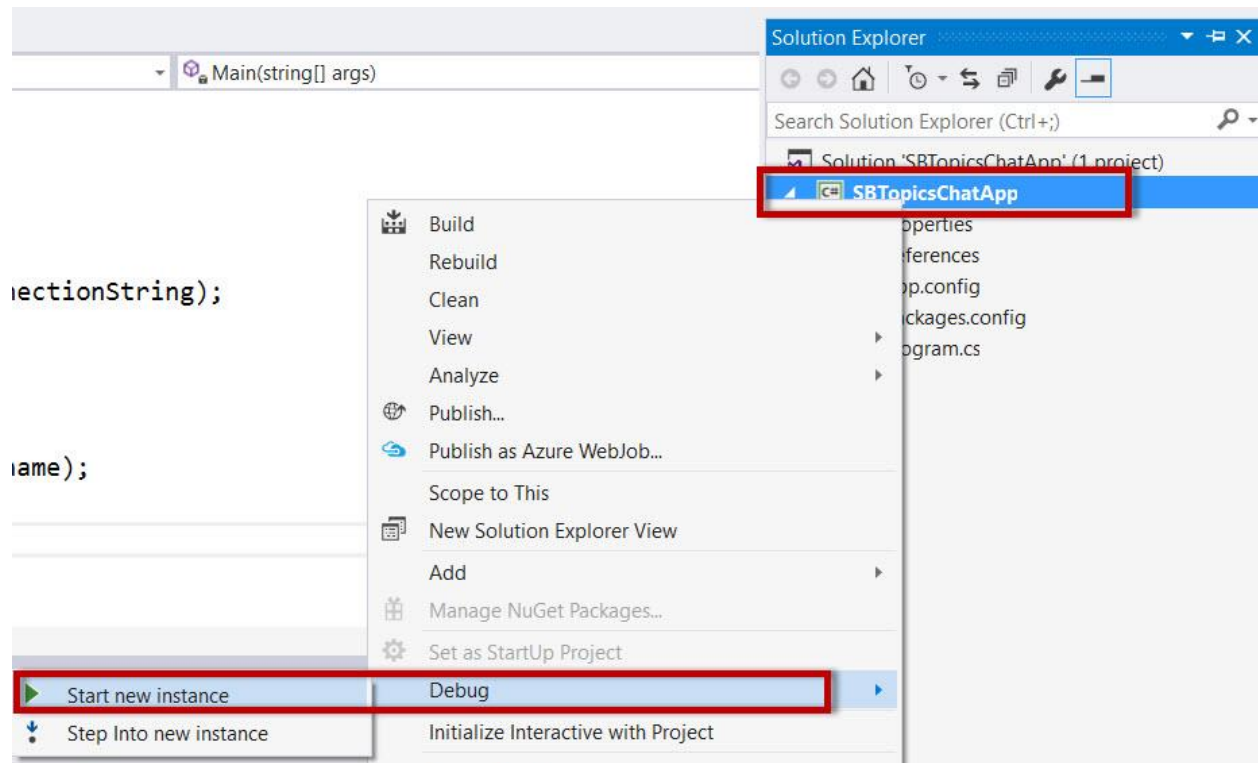


```

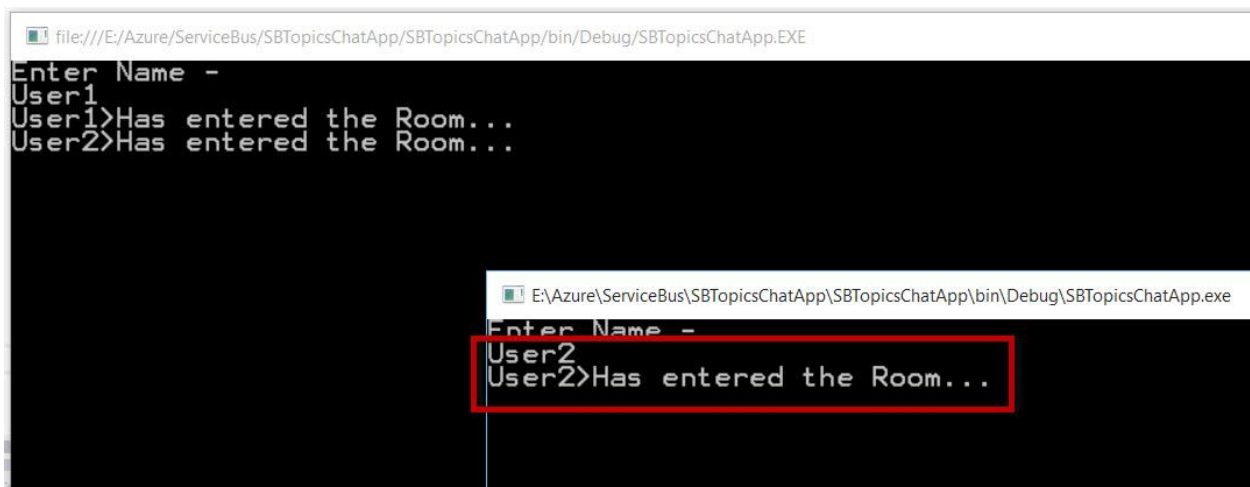
file:///E:/Azure/ServiceBus/SBTopicsChatApp/SBTopicsChatApp/bin/Debug/SBTopicsChatApp.EXE
Enter Name -
User1
User1>Has entered the Room...

```

Step 10: Don't Stop the project & right-click on project name -> Debug -> Start new instance



Enter another Name




```
file:///E:/Azure/ServiceBus/SBTopicsChatApp/SBTopicsChatApp/bin/Debug/SBTopicsChatApp.EXE
Enter Name -
User1
User1>Has entered the Room...
User2>Has entered the Room...
User2>Service Bus Topics Demo
Microsoft Azure
User1>Microsoft Azure

E:\Azure\ServiceBus\SBTopicsChatApp\SBTopicsChatApp\bin\Debug\
Enter Name -
User2
User2>Has entered the Room...
Service Bus Topics Demo
User2>Service Bus Topics Demo
User1>Microsoft Azure
```

Navigate to Service Bus Topics on Azure Portal

sbtopics
Service Bus - PREVIEW

Overview

Diagnose and solve problems

SETTINGS

Shared access policies

Properties

Locks

Automation script

ENTITIES

Subscriptions

SUPPORT + TROUBLESHOOTING

New support request

+ Subscription

Delete

Essentials ^

Namespace
azureservicebus

Topic URL
<https://azureservicebus.servicebus.windows.n>

ACTIVE MESSAGE COUNT
0 MESSAGES

SCHEDULED MESSAGE COUNT
0 MESSAGES

DEAD-LETTER MESSAGE COUNT
0 MESSAGES

TRANSFER MESSAGE COUNT
0 MESSAGES

TRANSFER DEAD-LETTER MESSAGE COUNT
0 MESSAGES

MAX SIZE
16 GB

CURRENT
0.0 KB

100% FREE SPACE

NAME	STATUS	MESSAGE COUNT	MAX DELIVERY COUNT
User1	Active	0	10
User2	Active	0	10