

## Test-AzStreamAnalyticsFunction Usage Examples in PowerShell Scripts

In this article, we will explore the usage examples of the Test-AzStreamAnalyticsFunction cmdlet in PowerShell scripts, specifically in the Windows environment. Stream Analytics is a powerful real-time analytics and complex event processing engine provided by Azure. It enables users to develop and run real-time analytics on streaming data from various sources, such as IoT devices, social media, or logs. The Test-AzStreamAnalyticsFunction cmdlet allows developers to test their Azure Stream Analytics functions locally before deploying them to the cloud.

### Examples:

#### 1. Testing Stream Analytics Function Locally:

```
# Import the required module
Import-Module Az.StreamAnalytics

# Set the function parameters
$resourceGroupName = "myResourceGroup"
$jobName = "myStreamAnalyticsJob"
$functionName = "myFunction"
$input = @{"inputColumn" = "inputValue"}

# Test the function locally
Test-AzStreamAnalyticsFunction -ResourceGroupName $resourceGroupName
-JobName $jobName -FunctionName $functionName -Input $input
```

#### 2. Verifying the Output of a Stream Analytics Function:

```
# Import the required module
Import-Module Az.StreamAnalytics

# Set the function parameters
$resourceGroupName = "myResourceGroup"
$jobName = "myStreamAnalyticsJob"
$functionName = "myFunction"
$input = @{"inputColumn" = "inputValue"}

# Verify the output of the function
$output = Test-AzStreamAnalyticsFunction -ResourceGroupName $resource
GroupName -JobName $jobName -FunctionName $functionName -Input $input

# Display the output
Write-Host $output
```

### 3. Testing Stream Analytics Function with Mock Data:

```
# Import the required module
Import-Module Az.StreamAnalytics

# Set the function parameters
$resourceGroupName = "myResourceGroup"
$jobName = "myStreamAnalyticsJob"
$functionName = "myFunction"
$input = Get-Content -Path "C:\path\to\mock\data.json" | ConvertFrom-
Json

# Test the function with mock data
Test-AzStreamAnalyticsFunction -ResourceGroupName $resourceGroupName
-JobName $jobName -FunctionName $functionName -Input $input
```

If the `Test-AzStreamAnalyticsFunction` cmdlet is not applicable in the Windows environment, an alternative approach would be to use the Azure Stream Analytics emulator. The emulator allows developers to test and debug their Stream Analytics jobs locally without the need for Azure resources. It provides a similar environment to the actual Azure Stream Analytics service, allowing users to validate their functions and queries before deploying them to the cloud.