

Microsoft Azure Service Fabric 6.0 Refresh Release Notes

This release includes the bug fixes and features described in this document.

The following packages and versions are part of this release

Service Fabric Runtime	Linux	6.0.133
	Windows	6.0.232
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	6.0.232
.NET SDK	Windows .NET SDK	2.8.232
	Microsoft.ServiceFabric	6.0.232
	Reliable Services and Reliable Actors	2.8.232
	ASP.NET Core Service Fabric integration	2.8.232
Service Fabric CLI	Service Fabric CLI (sfctl)	3.0.0
Powershell	AzureRM.ServiceFabric	0.3.0
Visual Studio	Visual Studio Tools for Service Fabric	1.8.51024

Service Fabric Runtime

Versions

- **Linux** **6.0.133**
- **Windows** **6.0.232**

Service Fabric Runtime Common Bug fixes

GetNode & GetNodeList Queries fixed

These queries will no longer return invalid values for NodeDeactivationIntent and NodeDeactivationStatus in rare cases. The rest endpoint would return invalid values due to a serialization error which is now fixed. This addresses the issue for PowerShell, CLI and the REST endpoint.

HTTP Status Error Codes Fixed

Addressed issues where Service Fabric REST API was not returning the correct http status codes for API errors.

Compose Deployment Upgrade Status Improved

During a compose deployment, the upgrade status details field will now show errors.

Service Fabric Runtime Windows Bug fixes

Race condition in updating default service

When updating a default service during application upgrade you could get race condition on the upgrade code path which could cause loss of updates, corruption of the update description etc. This will no longer occur.

Repair Manager Partially Enabled Fixed

There was a problem that the Repair Manager would partially be generated, and it would not actually show up. This issue is now resolved.

Zippped files not getting removed with multiple versions of an application type

Fixed a bug in unprovision application type operation that causes files to not be deleted properly from store for compressed packages. The incorrect behavior only happens when there are multiple versions of the same application type registered.

One box one-node Upgrade Scenario Fixed

Users needed to override the IsSingletonReplicaMoveAllowedDuringUpgrade field under FabricSettings section in ClusterManifestTemplate.json to false for one node local clusters environments. This field has been set to a default of false for this scenario now.

Service Fabric Runtime Linux Bug fixes

Linux One box takes up less space

The develop cluster setup for Linux environments has been improved to take up less space. This removes the Node warnings some users would get while using the Linux one box.

Linux upgrade fix for Open network

Linux cluster upgrade with open network is now enabled.

Service Fabric for Windows Server

Versions

- **Service Fabric for Windows Server** **6.0.232**

In addition to the changes in the runtime refresh mentioned above, there are some changes specific to the standalone offering, as described below.

Bug Fixes

Reliability Level state in Upgrade Orchestration Service is inconsistent with the configured state. For clusters that were updated to versions 5.7 RTO, 5.7 CU4, and 6.0 RTO (created in a previous version), the reliability level changes and impacts configuration upgrades. Configuration upgrades result in multi-step upgrade being initiated, and though the operation will eventually complete, it takes much longer than it should.

In the case of secured clusters, certificate upgrades are blocked, resulting in a validation error. This can be mitigated by changing the cluster configuration version and doing a configuration upgrade before doing the certificate upgrade.

In 6.0CU2, this is no longer an issue, and the right reliability level is persisted for the cluster. Configuration upgrades should behave as expected.

RemoveNode operation fails at validation

For clusters that were updated to versions 5.7 RTO, 5.7 CU4, and 6.0 RTO (created in a previous version), using RemoveNode fails with validation errors. This is caused by the cluster metadata being incorrectly persisted.

This has now been fixed and if the cluster is in the latest version, removing a node through the API will work.

Service Fabric .NET SDK & .NET Preview SDK

Versions

- NET SDK:
 - Windows .NET SDK 2.8.232
 - Microsoft.ServiceFabric 6.0.232
 - Reliable Services and Reliable Actors 2.8.232
 - ASP.NET Core Service Fabric integration 2.8.232

No changes in the SDK for this release.

Service Fabric PowerShell and CLI

Versions

- Service Fabric CLI 3.0.0
- PowerShell AzureRM Module (AzureRM.ServiceFabric) 0.3.0

Service Fabric CLI Commands

- Rename compose deployment creation and upgrade progress commands to accept 'deployment-name' as identifier
- Fix incorrect parsing error when updating service description load metrics
- Fix incorrect application upgrade argument names

PowerShell Commands

- Add support for online help
- Run Get-Help with the -Online parameter to open the online help in your default Internet browser

Repositories and Download Links

The table below is an overview of the direct links to the packages associated with this release.

Please follow this guidance for setting up your developer environment:

- Linux: <https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-get-started-linux>
- Mac: <https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-get-started-mac>
- Windows: <https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-get-started>

Area	Package	Version	Repository	Direct Download Link
Service Fabric Runtime	Linux Developer Set-up	6.0.133	N/A	http://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric/
	Windows Developer Set-up	6.0.232	N/A	http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDECE9B/MicrosoftServiceFabric.6.0.232.9494.exe
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	6.0.232	N/A	http://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.0.232.9494/Microsoft.Azure.ServiceFabric.WindowsServer.6.0.232.9494.zip
	Service Fabric Standalone Runtime	6.0.232	N/A	http://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.0.232.9494/MicrosoftAzureServiceFabric.6.0.232.9494.cab
.NET SDK	Windows .NET SDK	2.8.232	N/A	http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDECE9B/MicrosoftServiceFabricSDK.2.8.232.msi

	Microsoft.ServiceFabric	6.0.232	N/A	https://www.nuget.org
	Reliable Services and Reliable Actors <ul style="list-style-type: none"> • Microsoft.ServiceFabric.Services • Microsoft.ServiceFabric.Services.Remoting • Microsoft.ServiceFabric.Services.Wcf • Microsoft.ServiceFabric.Actors • Microsoft.ServiceFabric.Actors.Wcf 	2.8.232	https://github.com/Azure/service-fabric-services-and-actors-dotnet	https://www.nuget.org
	ASP.NET Core Service Fabric integration <ul style="list-style-type: none"> • Microsoft.ServiceFabric.Services.AspNetCore.* 	2.8.232	https://github.com/Azure/service-fabric-aspnetcore	https://www.nuget.org
	<ul style="list-style-type: none"> • Microsoft.ServiceFabric.Data • Microsoft.ServiceFabric.Diagnostics.Internal • Microsoft.ServiceFabric.FabricTransport.Internal 	2.8.232	N/A	https://www.nuget.org
.NET SDK Preview	Microsoft.ServiceFabric	6.1.219-preview	N/A	https://www.nuget.org
	Reliable Services and Reliable Actors <ul style="list-style-type: none"> • Microsoft.ServiceFabric.Services • Microsoft.ServiceFabric.Services.Remoting • Microsoft.ServiceFabric.Services.Wcf • Microsoft.ServiceFabric.Actors • Microsoft.ServiceFabric.Actors.Wcf 	3.0.219-preview	https://github.com/Azure/service-fabric-services-and-actors-dotnet	https://www.nuget.org
	ASP.NET Core Service Fabric integration <ul style="list-style-type: none"> • Microsoft.ServiceFabric.AspNetCore.Abstractions • Microsoft.ServiceFabric.AspNetCore.HttpSys • Microsoft.ServiceFabric.AspNetCore.Kestrelnetstandard • Microsoft.ServiceFabric.AspNetCore.WebListener 	3.0.219-preview	https://github.com/Azure/service-fabric-aspnetcore	https://www.nuget.org
	<ul style="list-style-type: none"> • Microsoft.ServiceFabric.Data • Microsoft.ServiceFabric.Diagnostics.Internal Microsoft.ServiceFabric.FabricTransport.Internal	3.0.219-preview	N/A	https://www.nuget.org

Java SDK	Java SDK	1.0.0-preview	N/A	http://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric-sdkcommon/servicefabric_sdkcommon_1.0.0.deb
Visual Studio	Visual Studio 2017 Tools for Service Fabric	1.8.51024	N/A	Included in Visual Studio 2017 Update 4
	Visual Studio 2017 Tools for Service Fabric Note: Only works with Visual Studio 2017 Update 4 preview 4 or later	2.0-preview	N/A	http://download.microsoft.com/download/A/7/3/A737BB0E-C5A9-49E7-AB49-E59FB5B35FF2/Microsoft.VisualStudio.Azure.Fabric.Vsix.Alpha.vsix
	Visual Studio 2015 Tools for Service Fabric	1.8.51204	N/A	See localized download links below
Eclipse	Service Fabric plug-in for Eclipse	2.04	N/A	N/A
Yeoman	Azure Service Fabric Java generator	1.0.2	https://github.com/Azure/generator-azuresfjava	N/A
	Azure Service Fabric C# generator	1.0.1	https://github.com/Azure/generator-azuresfcsharp	N/A
	Azure Service Fabric guest executables generator	1.0.0	https://github.com/Azure/generator-azuresfguest	N/A
	Azure Service Fabric Container generators	1.0.0	https://github.com/Azure/generator-azuresfcontainer	N/A
CLI	Service Fabric CLI	3.0.0	https://github.com/Azure/service-fabric-cli	https://pypi.python.org/pypi/sfctl
PowerShell	AzureRM.ServiceFabric	0.3.0	https://github.com/Azure/azure-powershell/tree/preview/src/Resource	https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.0

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Visual Studio 2015 Tool for Service Fabric – localized download links

NOTE: The below download links are for the 1.8.51024 release of Visual Studio 2015 Tools for Service Fabric.

"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.de-de.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.en-us.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.es-es.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.it-it.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi>"
"<http://download.microsoft.com/download/3/2/1/3217654F-6882-4CEA-BD51-49287EDEC9B/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi>"