Microsoft Azure Service Fabric 6.5 First Refresh Release Notes

This release includes the bug fixes and features described in this document. This release includes runtime, SDKs and Windows Server Standalone deployments to run on-premises.

The following packages and versions are part of this release

Service Fabric Runtime	Ubuntu	*6.5.454.1*
	Windows	*6.5.641.9590*
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	*6.5.641.9590*
.NET SDK	Windows .NET SDK	*3.4.641*
	Microsoft.ServiceFabric	*6.5.641*
	Reliable Services and Reliable Actors	*3.4.641*
	ASP.NET Core Service Fabric integration	*3.4.641*
Java SDK	Java for Linux SDK	*1.0.5*
Service Fabric PowerShell and CLI	AzureRM PowerShell Module	*0.3.15*
	SFCTL	*8.0.0*
Service Fabric Tooling	Visual Studio Tooling	*2.5.20615.1*
	Eclipse Tooling	*2.0.7*

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Upgrade requirements for Docker Compose customers

For any customers running a Docker Compose application on their cluster. Please follow the guidance given below for each scenario,

- *Cluster had been upgraded to version 6.5.435.1 for Ubuntu or version 6.5.639.9590 for Windows and experiencing cluster availability issues*: Please reach out to us through Azure Portal Help for assistance with this issue. Here are your general support options for Service Fabric: https://docs.microsoft.com/azure/service-fabric/service-fabric-support.

- *Cluster had been upgraded to version 6.5.435.1 for Ubuntu or version 6.5.639.9590 for Windows and are not experiencing any issues*: Need to upgrade the cluster to this 6.5 refresh release version as soon as possible.

- *Cluster had not been upgraded to version 6.5.435.1 for Ubuntu or version 6.5.639.9590 for Windows*: Need to first upgrade the cluster to the latest version of 6.4. This would be version *6.4.664.9590+* for Windows and 6.4.661.1+ for Ubuntu. Once you have upgraded to this version, you can safely upgrade to this 6.5 refresh release version.

Service Fabric Common Bug Fixes

Versions	IssueType	Description	Resolution
Ubuntu 6.5.454.1	**Bug**	When creating compose application, one more "fabric:/" is added to the application instance name. This name is used to generate log driver in Linux. The wrong name with two "fabric:/" prefix used by log driver causes compose application creation to fail.	**Impact**: Compose application in Linux cannot be created. **Fix**: Remove the additional "fabric:/" when creating compose application instance.
Ubuntu 6.5.454.1 Windows 6.5.641.9590	**Bug**	Compose applications are migrated to use new workflow in Cluster Manager in 6.5. If compose applications are upgraded before, Cluster Manager will crash when cluster is upgrading to 6.5.	**Impact**: If compose applications are upgraded before, then Cluster Manager will crash if cluster is upgrading to 6.5. **Fix**: The issue is if compose application is upgraded before, it will reset its upgrade description to null. When migrating, the description is used to creating new data for compose application, and null causes migration failed. Fix to check null upgrade description before migration.

Repositories and Download Links

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

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	Ubuntu Developer Set-up	6.5.454.1	N/A	Cluster Runtime: https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric Service Fabric SDK for local cluster setup: https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabricsdkcommon/ Container image: https://hub.docker.com/r/microsoft/service-fabric-onebox/
	Red Hat Developer Set-up	6.1.189.1	N/A	Cluster Runtime: https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/ Service Fabric SDK for local cluster setup: https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/servicefabric_sdkcommon_1.1.2.rpm

Area	Package	Version	Repository	Direct Download Link
	Windows Developer Set-up	6.4.641.9590	N/A	https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftServiceFabric.6.5.641.9590.exe
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	6.4.641.9590	N/A	https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.5.641.9590/Microsoft.Azure.ServiceFabric.WindowsServer.6.5.641.9590.zip
	Service Fabric Standalone Runtime	6.4.641.9590	N/A	https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.5.641.9590/MicrosoftAzureServiceFabric.6.5.641.9590.cab
.NET SDK	Windows .NET SDK	3.4.641	N/A	https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftServiceFabricSDK.3.4.641.msi
	Microsoft.ServiceFabric	6.4.641	N/A	https://www.nuget.org
	Reliable Services and Reliable Actors • Microsoft.ServiceFabric.Services • Microsoft.ServiceFabric.Services.Remoting • Microsoft.ServiceFabric.Services.Wcf • Microsoft.ServiceFabric.Actors Microsoft.ServiceFabric.Actors.Wcf	3.4.641	https://github.com/Azure/service-fabric-services-and-actors-dotnet	https://www.nuget.org

Area	Package	Version	Repository	Direct Download Link
	ASP.NET Core Service Fabric integration Microsoft.ServiceFabric.Services.AspNetCore.*	3.4.641	https://github.com/Azure/service-fabric-aspnetcore	https://www.nuget.org
.NET SDK	Data, Diagnostics and Fabric transport • Microsoft.ServiceFabric.Data • Microsoft.ServiceFabric.Data.Interfaces • Microsoft.ServiceFabric.Diagnostics.Internal Microsoft.ServiceFabric.FabricTransport.Internal	3.4.641	N/A	https://www.nuget.org
.NET SDK	Microsoft.ServiceFabric.Data.Extensions	1.4.641	N/A	https://www.nuget.org
Java SDK	Java SDK	1.0.5	N/A	https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.0
Visual Studio	Visual Studio 2017 Tools for Service Fabric	2.5.20608.1	N/A	Included in Visual Studio 2017 Update 7 (15.7) and above
	Visual Studio 2015 Tools for Service Fabric	2.5.20615.1	N/A	See localized download links below
Eclipse	Service Fabric plug-in for Eclipse	2.0.7	N/A	N/A
Yeoman	Azure Service Fabric Java generator	1.0.7	https://github.com/Azure/generator-azuresfjava	N/A
	Azure Service Fabric C# generator	1.0.9	https://github.com/Azure/generator-azuresfcsharp	N/A
	Azure Service Fabric guest executables generator	1.0.1	https://github.com/Azure/generator-azuresfguest	N/A

Area	Package	Version	Repository	Direct Download Link
	Azure Service Fabric Container generators	1.0.1	https://github.com/Azure/generator-azuresfcontainer	N/A
CLI	Service Fabric CLI	8.0.0	https://github.com/Azure/service-fabric-cli	https://pypi.python.org/pypi/sfctl
Power Shell	AzureRM.ServiceFabric	0.3.15	https://github.com/Azure/azure-powershell/tree/preview/src/ResourceManager/ServiceFabric	https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.15

Visual Studio 2015 Tool for Service Fabric – localized download links

NOTE: The below download links are for the 2.5.20615.1 release of Visual Studio 2015 Tools for Service Fabric.

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.de-de.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.en-us.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.es-es.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.it-it.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi

https://download.microsoft.com/download/9/2/0/920B15E6-8CC1-4413-8978-123B77288B40/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi