

## Microsoft Azure Service Fabric 6.3 Update 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

<b>Service Fabric Runtime</b>	Ubuntu	6.3.129.1
	Windows	6.3.187.9494
	Red Hat Enterprise	6.1.189.1
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	6.3.187.9494
<b>.NET SDK</b>	Windows .NET SDK	3.2.187.9494
	Microsoft.ServiceFabric	6.3.187
	Reliable Services and Reliable Actors	3.2.187
	ASP.NET Core Service Fabric integration	3.2.187
<b>Java SDK</b>	Java for Linux SDK	1.0.0

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# Service Fabric Runtime

## Versions

- **Ubuntu** 6.3.129.1
- **Red Hat** 6.1.189.1
- **Windows** 6.3.187.9494

## Service Fabric common runtime features

- We now prevent services from getting created if the DNS name of the service meets the criteria for partitioned queries without the cluster having the EnablePartionedQuery flag is set to true
  - o To set that parameter to true, please read the following on how to [Enable the DNS Service](#). Specifically, in the parameters section, add a parameter called “EnablePartitionedQuery” and set it to true.
- In this release, we added a fix for the runtime to clean up logs and folders created by container processes running on nodes. Previously, if container processes were running on nodes, there was an issue where log folders were not getting deleted.
- Upgrading compose deployments in clusters with DNS would cause the upgrade to be stuck. From this release onwards, upgrades of this nature would fail instead of being stuck.

## Service Fabric Windows Runtime Fixes

### Versions

- **Windows** 6.3.187.9494

### Bugs and Features

- Prior to this release, if you set service endpoints explicitly for Windows containers in the Service Manifest, Service Fabric creates the necessary firewall rules to allow traffic to flow. These calls would sometimes hang indefinitely causing the Service Fabric node to crash. In this release, we have fixed this issue.

## Service Fabric Linux Runtime Fixes

### Versions

- **Linux** 6.3.129.1

### Bugs and Features

- Upgrade service unreachable state can last indefinitely for Linux clusters because there was no timeout value. From this release onwards, there is a timeout, so this issue shouldn't cause an upgrade to hang indefinitely

## 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
<b>Service Fabric Runtime</b>	Ubuntu Developer Set-up	6.3.129.1	N/A	Cluster Runtime: <a href="https://apt.mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric">https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric</a>  Service Fabric SDK for local cluster setup: <a href="https://apt.mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric/sdkcommon/servicefabric_sdkcommon_1.3.0.deb">https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric/sdkcommon/servicefabric_sdkcommon_1.3.0.deb</a>  Container image: <a href="https://hub.docker.com/r/microsoft/service-fabric-onebox/">https://hub.docker.com/r/microsoft/service-fabric-onebox/</a>

Area	Package	Version	Repository	Direct Download Link
	Red Hat Developer Set-up	6.1.189.1	N/A	Cluster Runtime: <a href="https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/">https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/</a>  Service Fabric SDK for local cluster setup: <a href="https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/servicefabric_sdkcommon_1.1.2.rpm">https://packages.microsoft.com/yumrepos/microsoft-rhel7.4-prod/servicefabric_sdkcommon_1.1.2.rpm</a>
	Windows Developer Set-up	6.3.187.9494	N/A	<a href="https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftServiceFabric.6.3.187.9494.exe">https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftServiceFabric.6.3.187.9494.exe</a>
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	6.3.187.9494	N/A	<a href="https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.3.187.9494/Microsoft.Azure.ServiceFabric.WindowsServer.6.3.187.9494.zip">https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.3.187.9494/Microsoft.Azure.ServiceFabric.WindowsServer.6.3.187.9494.zip</a>
	Service Fabric Standalone Runtime	6.3.187.9494	N/A	<a href="https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.3.187.9494/MicrosoftAzureServiceFabric.6.3.187.9494.cab">https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.3.187.9494/MicrosoftAzureServiceFabric.6.3.187.9494.cab</a>
<b>.NET SDK</b>	Windows .NET SDK	3.2.187.9494	N/A	<a href="https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftServiceFabricSDK.3.2.187.msi">https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftServiceFabricSDK.3.2.187.msi</a>

Area	Package	Version	Repository	Direct Download Link
	Microsoft.ServiceFabric	6.3.187	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>
	Reliable Services and Reliable Actors <ul style="list-style-type: none"> <li>Microsoft.ServiceFabric.Services</li> <li>Microsoft.ServiceFabric.Services.Remoting</li> <li>Microsoft.ServiceFabric.Services.Wcf</li> <li>Microsoft.ServiceFabric.Actors</li> <li>Microsoft.ServiceFabric.Actors.Wcf</li> </ul>	3.2.187	<a href="https://github.com/Azure/service-fabric-services-and-actors-dotnet">https://github.com/Azure/service-fabric-services-and-actors-dotnet</a>	<a href="https://www.nuget.org">https://www.nuget.org</a>
	ASP.NET Core Service Fabric integration <ul style="list-style-type: none"> <li>Microsoft.ServiceFabric.Services.AspNetCore.*</li> </ul>	3.2.187	<a href="https://github.com/Azure/service-fabric-aspnetcore">https://github.com/Azure/service-fabric-aspnetcore</a>	<a href="https://www.nuget.org">https://www.nuget.org</a>
	Data, Diagnostics and Fabric transport <ul style="list-style-type: none"> <li>Microsoft.ServiceFabric.Data</li> <li>Microsoft.ServiceFabric.Data.Interfaces</li> <li>Microsoft.ServiceFabric.Diagnostics.Internal</li> <li>Microsoft.ServiceFabric.FabricTransport.Internal</li> </ul>	3.2.187	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>
	Microsoft.ServiceFabric.Data.Extensions	1.4.187	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>
<b>Java SDK</b>	Java SDK	1.0.0	N/A	<a href="https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.0">https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.0</a>



Area	Package	Version	Repository	Direct Download Link
<b>Visual Studio</b>	Visual Studio 2017 Tools for Service Fabric	2.3.10710.1	N/A	Included in Visual Studio 2017 Update 7 (15.7) and above
	Visual Studio 2015 Tools for Service Fabric	2.3.10710.3	N/A	See localized download links below
<b>Eclipse</b>	Service Fabric plug-in for Eclipse	2.0.7	N/A	N/A
<b>Yeoman</b>	Azure Service Fabric Java generator	1.0.7	<a href="https://github.com/Azure/generator-azuresfjava">https://github.com/Azure/generator-azuresfjava</a>	N/A
	Azure Service Fabric C# generator	1.0.9	<a href="https://github.com/Azure/generator-azuresfcsharp">https://github.com/Azure/generator-azuresfcsharp</a>	N/A
	Azure Service Fabric guest executables generator	1.0.1	<a href="https://github.com/Azure/generator-azuresfguest">https://github.com/Azure/generator-azuresfguest</a>	N/A
	Azure Service Fabric Container generators	1.0.1	<a href="https://github.com/Azure/generator-azuresfcontainer">https://github.com/Azure/generator-azuresfcontainer</a>	N/A
<b>CLI</b>	Service Fabric CLI	6.0.1	<a href="https://github.com/Azure/service-fabric-cli">https://github.com/Azure/service-fabric-cli</a>	<a href="https://pypi.python.org/pypi/sfctl">https://pypi.python.org/pypi/sfctl</a>
<b>PowerShell</b>	AzureRM.ServiceFabric	0.3.12	<a href="https://github.com/Azure/azure-powershell/tree/preview/src/ResourceManager/ServiceFabric">https://github.com/Azure/azure-powershell/tree/preview/src/ResourceManager/ServiceFabric</a>	<a href="https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.12">https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.12</a>

### Visual Studio 2015 Tool for Service Fabric – localized download links

**NOTE:** The below download links are for the 2.3.10710.3 release of Visual Studio 2015 Tools for Service Fabric.

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.de-de.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.en-us.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.es-es.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.it-it.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi>

<https://download.microsoft.com/download/7/6/8/76834E9D-91D5-43E3-8CF4-3D954564AB53/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi>