

## Microsoft Azure Service Fabric 6.4 Seventh 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

<b>Service Fabric Runtime</b>	Ubuntu	<i>6.4.661.1</i>
	Windows	<i>6.4.664.9590</i>
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	<i>6.4.664.9590</i>
<b>.NET SDK</b>	Windows .NET SDK	<i>3.3.664</i>
	Microsoft.ServiceFabric	<i>6.4.664</i>
	Reliable Services and Reliable Actors	<i>3.3.664</i>
	ASP.NET Core Service Fabric integration	<i>3.3.664</i>
<b>Java SDK</b>	Java for Linux SDK	<i>1.0.4</i>
<b>Service Fabric PowerShell and CLI</b>	AzureRM PowerShell Module	<i>0.3.15</i>
	SFCTL	<i>7.1.0</i>
	Azure CLI (az sf)	<i>0.1.19</i>
<b>Service Fabric Tooling</b>	Visual Studio Tooling	<i>2.4.11116.1</i>
	Eclipse Tooling	<i>2.0.7</i>

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## Service Fabric Runtime

Versions	Issue Type	Description	Resolution
<b>Windows</b> 6.4.664.9590 <b>Ubuntu</b> 6.4.661.1	<b>Bug</b>	If a fabric client sets FabricClientSettings.HealthReportRetrySendInterval is set to 0, sending a health report will trigger automatic retries, causing multiple duplicate reports to be sent for each unique report.	<p><b>Impact:</b> This could potentially lead to many health reports sent to Health Manager and impact service performance.</p> <p><b>Fix:</b> If a fabric client sets FabricClientSettings.HealthReportRetrySendInterval is set to 0, the default value (30 seconds) is set instead. The minimal supported value is 1 second.</p> <p><b>Documentation:</b> The following docs have been updated to reflect the minimum value supported:</p> <ul style="list-style-type: none"> <li>• Service Fabric client settings documentation: <a href="https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-cluster-fabric-settings#fabricclient">https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-cluster-fabric-settings#fabricclient</a></li> <li>• Health reporting and health client documentation: <a href="https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-report-health#health-client">https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-report-health#health-client</a></li> <li>• Service Fabric Power Shell: <a href="https://docs.microsoft.com/en-us/powershell/module/servicefabric/connect-servicefabriccluster">https://docs.microsoft.com/en-us/powershell/module/servicefabric/connect-servicefabriccluster</a></li> </ul>
<b>Windows</b> 6.4.664.9590 <b>Ubuntu</b> 6.4.661.1	<b>Feature</b>	Users can now specify that a container should send an error health report anytime its Docker HEALTHCHECK becomes unhealthy.	<p><b>Brief desc:</b> This feature allows the user to specify that containers in their application type should send an error health report when the container’s Docker HEALTHCHECK returns unhealthy. Previously, it was only possible for containers to send warning health reports.</p> <p><b>How/When to consume it:</b> You can consume this feature by setting the new “TreatContainerUnhealthyStatusAsError” config in the HealthConfig object of your ContainerHostPolicies object. You should set this config to true if you want the container to send an error health report, and don’t set it or set it to false if you want the container to send a warning health report.</p> <p><b>Documentation:</b> <a href="https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-get-started-containers#configure-docker-healthcheck">https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-get-started-containers#configure-docker-healthcheck</a></p>

## 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	6.4.661.1	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/sdkcommunication/">https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/servicefabric/sdkcommunication/</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
<b>Service Fabric Runtime</b>	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>
<b>Service Fabric Runtime</b>	Windows Developer Set-up	6.4.664.9590	N/A	<a href="https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftServiceFabric.6.4.664.9590.exe">https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftServiceFabric.6.4.664.9590.exe</a>
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	6.4.664.9590	N/A	<a href="https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.4.664.9590/Microsoft.Azure.ServiceFabric.WindowsServer.6.4.664.9590.zip">https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.4.664.9590/Microsoft.Azure.ServiceFabric.WindowsServer.6.4.664.9590.zip</a>
	Service Fabric Standalone Runtime	6.4.664.9590	N/A	<a href="https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.4.664.9590/MicrosoftAzureServiceFabric.6.4.664.9590.cab">https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.4.664.9590/MicrosoftAzureServiceFabric.6.4.664.9590.cab</a>
<b>.NET SDK</b>	Windows .NET SDK	3.3.664	N/A	<a href="https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftServiceFabricSDK.3.3.664.msi">https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftServiceFabricSDK.3.3.664.msi</a>

Area	Package	Version	Repository	Direct Download Link
	Microsoft.ServiceFabric	6.4.664	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.Remoteing</li> <li>• Microsoft.ServiceFabric.Services.Wcf</li> <li>• Microsoft.ServiceFabric.Actors</li> <li>• Microsoft.ServiceFabric.Actors.Wcf</li> </ul>	3.3.664	<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>	3.3.664	<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>	3.3.664	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>
	Microsoft.ServiceFabric.Data.Extensions	1.4.664	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>

Area	Package	Version	Repository	Direct Download Link
<b>Java SDK</b>	Java SDK	1.0.4	N/A	<a href="https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.4">https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.4</a>
<b>Visual Studio</b>	Visual Studio 2017 Tools for Service Fabric	2.4.11024.1	N/A	Included in Visual Studio 2017 Update 7 (15.7) and above
	Visual Studio 2015 Tools for Service Fabric	2.4.11116.1	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	7.1.0	<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	0.3.15	<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/0.3.15">https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.15</a>

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

**NOTE:** The below download links are for the 2.4.11116.1 release of Visual Studio 2015 Tools for Service Fabric.

<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.de-de.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.en-us.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.es-es.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.it-it.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi>  
<https://download.microsoft.com/download/D/6/6/D664EC73-321A-4F1C-916E-65CE5AD729CF/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi>