

## Microsoft Azure Service Fabric 6.3 CU1 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	6.3.124.1
	Windows	6.3.176.9494
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	6.3.176.9494
<b>.NET SDK</b>	Windows .NET SDK	3.2.176.9494
	Microsoft.ServiceFabric	6.3.176
	Reliable Services and Reliable Actors	3.2.176
	ASP.NET Core Service Fabric integration	3.2.176
	Data. Diagnostics and Fabric transport	3.2.176

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# Service Fabric Runtime

## Versions

- **Ubuntu** 6.3.124.1
- **Windows** 6.3.176.9494

## Service Fabric common runtime features

- ServiceDNSName attribute of default service is now parameterizable. [GitHub Issue #540](#)

For example:

```
<Service Name="Stateless1" ServiceDnsName="[Stateless1DnsName]">
```

- Support partitioned DNS queries for stateful services. To learn more, please visit the Service Fabric documentation: <https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-dnsservice#preview-making-dns-queries-on-a-stateful-service-partition>
- Service Fabric now supports TLS 1.2, so versions < 1.2 can now safely be disabled

## Service Fabric common runtime bugs

- Declaring cluster certificates by common name with pinned issuers no longer requires the root to be trusted.
- Fixed an issue where the SF reverse proxy was adding invalid query parameters to the request which caused requests to crash
- We were wrongly setting the DNS server chain on host network connected containers to only the Host IP address on Docker NAT network. On clusters where service\_fabric bridge network is not present, the response from the DNS service running host appears to come from an IP (Host IP on cluster network) rather than the host IP on docker NAT network. This happens due to missing NAT translation rules which get created by CNS plugin when bridge network is created. As the replies seem to be coming from an unexpected source (due to difference in IP), OS resolver drops the response, resulting into DNS resolution failures. To fix this, we now set the DNS server as 127.0.0.1 for host network connected containers. This will make the reply look from an expected source as DNS service is running on the host.

## Service Fabric Windows Runtime Fixes

### Versions

- **Windows** 6.3.176.9494

### Bugs and Features

- Service Fabric allows you to run .NET and .NET Core Reliable Services inside containers today. Currently, when you do this, Service Fabric traces emitted inside the container are not picked up by the runtime running on the host. In addition, Service Fabric will not clean up the traces inside your container causing the node to run out of allocated disk space. In order to fix this, the following snippet needs to be explicitly added to the Cluster Manifest:

```
{ "name": "Hosting", "parameters": [ { "name": "FabricContainerAppsEnabled", "value": "true" } ] }
```

This issue only affected Windows clusters.

# Service Fabric PowerShell

## Version

**Service Fabric PowerShell** 3.2.176.9494

## Bugs and Features

- The client-side tooling and cluster have a property called MaxMessageSize which determines the chunk size in which data is sent from any PowerShell command to the cluster. Today, if the MaxMessageSize property is changed on the cluster (via a config update), PowerShell commands that are made can start failing. To fix this before this release, you must change the property on your local cluster and start a config update in order for the PowerShell commands to pick up the. The fix we have made in this release sends the MaxMessageSize from the cluster to the client in the initial call the client makes to the cluster. This means you do not need to change any property on your local cluster and do config updates. PowerShell commands can be executed without having to worry about this property.

## Service Fabric Standalone

### Versions

- **Windows** 6.3.176.9494

### Bugs and Features

- Today, the Standalone Log Collector will crash if the cluster being targeted is not up and will prevent you from obtaining any sort of logs from the cluster. This fix forces the Log Collector to first verify that your cluster is up and then uses the newly added parameter (ClusterConfigFilePath) to get the JSON cluster configuration file. From that file, the Log Collector will obtain the file paths of FabricDataRoot and FabricLogRoot that sit in the ClusterConfig and obtain whatever logs it can from these paths.

## 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	6.3.124.1	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-1.3.0.deb">https://apt-mo.trafficmanager.net/repos/servicefabric/pool/main/s/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	<p>Cluster Runtime:  <a href="https://packages.microsoft.com/yumr/epos/microsoft-rhel7.4-prod/">https://packages.microsoft.com/yumr/epos/microsoft-rhel7.4-prod/</a></p> <p>Service Fabric SDK for local cluster setup:  <a href="https://packages.microsoft.com/yumr/epos/microsoft-rhel7.4-prod/servicefabric_sdkcommon_1.1.2.rpm">https://packages.microsoft.com/yumr/epos/microsoft-rhel7.4-prod/servicefabric_sdkcommon_1.1.2.rpm</a></p>
	Windows Developer Set-up	6.3.176.9494	N/A	<a href="https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftServiceFabric.6.3.176.9494.exe">https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftServiceFabric.6.3.176.9494.exe</a>
<b>Service Fabric for Windows Server</b>	Service Fabric Standalone Installer Package	6.3.176.9494	N/A	<a href="https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.3.176.9494/Microsoft.Azure.ServiceFabric.WindowsServer.6.3.176.9494.zip">https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.3.176.9494/Microsoft.Azure.ServiceFabric.WindowsServer.6.3.176.9494.zip</a>
	Service Fabric Standalone Runtime	6.3.176.9494	N/A	<a href="https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.3.176.9494/MicrosoftAzureServiceFabric.6.3.176.9494.cab">https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.3.176.9494/MicrosoftAzureServiceFabric.6.3.176.9494.cab</a>



Area	Package	Version	Repository	Direct Download Link
.NET SDK	Windows .NET SDK	3.2.176.9494	N/A	<a href="https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftServiceFabricSDK.3.2.176.msi">https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftServiceFabricSDK.3.2.176.msi</a>
	Microsoft.ServiceFabric	6.3.176	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>	3.2.176	<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>	3.2.176	<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>

Area	Package	Version	Repository	Direct Download Link
	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>	3.2.176	N/A	<a href="https://www.nuget.org">https://www.nuget.org</a>
	Microsoft.ServiceFabric.Data.Extensions	1.4.176	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>
<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	6.0.0	<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>

Area	Package	Version	Repository	Direct Download Link
PowerShell	AzureRM.ServiceFabric	0.3.10	<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/0.3.10">https://www.powershellgallery.com/packages/AzureRM.ServiceFabric/0.3.10</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/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.de-de.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.en-us.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.es-es.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.it-it.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi>

<https://download.microsoft.com/download/1/A/A/1AA062F9-0E1D-40E9-BD4F-6F12ABB71083/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi>