Microsoft Azure Service Fabric 6.5 Third 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	6.5.466.1
	Windows	6.5.664.9590
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	6.5.664.9590
.NET SDK	Windows .NET SDK	3.4.664
	Microsoft.ServiceFabric	6.5.664
	Reliable Services and Reliable Actors	3.4.664
	ASP.NET Core Service Fabric integration	3.4.664
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

Contents

Key Announcements

- GA of Service Fabric Azure Files Volume Driver: The Azure Files volume plugin is a [Docker volume plugin](#) that provides [Azure Files](#) based volumes for Docker containers. This Docker volume plugin is packaged as a Service Fabric application that can be deployed to Service Fabric clusters. Its purpose is to provide Azure Files based volumes for other Service Fabric container applications that are deployed to the cluster. [Learn more about Service Fabric Azure File Volume Driver](#)

Service Fabric Runtime

Windows 6.5.664.9590 **Ubuntu 6.5.466.1**	**Bug**	Provisioning an application in SFPKG from external store hangs a long time.	**Impact**: Application provisioning could fail after a long time by time-out. The retry will succeed at provisioning the failed application. **Fix**: The web client is fixed to detect absent progress notification. It reconnects to the server again under such situation. **Workaround**: Retry
Windows 6.5.664.9590 **Ubuntu 6.5.466.1**	**Bug**	Increase the minimum length of passwords generated for SF application accounts to 16	**Impact:** SF6.5CU2 introduced a regression where the length of passwords generated for local accounts created by the SF runtime was reduced from 20 to 10 characters. On systems with policies that enforce a password length greater than 10, this causes account creation to fail. **Fix:** Password length is increased to 16. **Workaround:** on affected systems, override the password length restriction by executing: net accounts /minpwlen:10
Ubuntu 6.5.466.1 Windows 6.5.664.9590	**Feature**	Cluster can be configured to accept expired self-signed certificates pinned by thumbprint for transport security.	**Brief desc:** Service Fabric now supports allowing a cluster secured with self-signed certificates declared by thumbprint, to use its cluster certificate past the certificate expiration (Valid To) date. The feature allows the recovery of a cluster that collapsed due to an expired certificate. **How/When to Consume it:** The feature is applicable only to clusters secured with self-signed certificates declared by thumbprint. Use it proactively to avoid a cluster collapse upon certificate expiration, or as a recovery measure after the cluster certificate has expired. **GitHub link:** https://github.com/Azure/Service-Fabric-Troubleshooting-Guides/blob/sedwardsdev/Security/How%20to%20recover%20from%20an%20Expired%20Cluster%20Certificate.md

Service Fabric Common Bug Fixes

Versions	IssueType	Description	Resolution
Windows 6.5.664.9590	**Bug**	Correctly update the DNS server list for Service Fabric DNS during server list changes	**Brief desc:** When you switch between a home network and work network, it can cause the DNS list to change on your system. Previously Service Fabric DNS would overwrite the DNS server list, with the old list from the previous network. This would cause DNS to stop working. It impacts one-box and even Azure Stack based scenarios. **Fix:** only update the server list such that Service Fabric DNS IP is on the top and will make no other changes, fixing this issue. **How/When to Consume it:** It is an automatic environment configuration when you use Service Fabric DNS as your primary DNS server. **Note**: you may still need to do an ipconfig /renew, for the DHCP cache to also update after the network change. **Workaround:** Previously it was advised to tear down a cluster between network changes or attempt to recreate the cluster.

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	6.5.466.1	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/

Area	Package	Version	Repository	Direct Download Link
	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
	Windows Developer Set-up	6.5.664.9590	N/A	https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftServiceFabric.6.5.664.9590.exe
Service Fabric for Windows Server	Service Fabric Standalone Installer Package	6.5.664.9590	N/A	https://download.microsoft.com/download/8/3/6/836E3E99-A300-4714-8278-96BC3E8B5528/6.5.664.9590/Microsoft.Azure.ServiceFabric.WindowsServer.6.5.664.9590.zip
	Service Fabric Standalone Runtime	6.5.664.9590	N/A	https://download.microsoft.com/download/B/0/B/B0BCCAC5-65AA-4BE3-AB13-D5FF5890F4B5/6.5.664.9590/MicrosoftAzureServiceFabric.6.5.664.9590.cab
.NET SDK	Windows .NET SDK	3.4.664	N/A	https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftServiceFabricSDK.3.4.664.msi
	Microsoft.ServiceFabric	6.5.664	N/A	https://www.nuget.org

Area	Package	Version	Repository	Direct Download Link
	Reliable Services and Reliable Actors • Microsoft.ServiceFabric.Services • Microsoft.ServiceFabric.Services.Remoting • Microsoft.ServiceFabric.Services.Wcf • Microsoft.ServiceFabric.Actors • Microsoft.ServiceFabric.Actors.Wcf	3.4.664	https://github.com/Azure/service-fabric-services-and-actors-dotnet	https://www.nuget.org
	ASP.NET Core Service Fabric integration • Microsoft.ServiceFabric.Services.AspNetCore.*	3.4.664	https://github.com/Azure/service-fabric-aspnetcore	https://www.nuget.org
	Data, Diagnostics and Fabric transport • Microsoft.ServiceFabric.Data • Microsoft.ServiceFabric.Data.Interfaces • Microsoft.ServiceFabric.Diagnostics.Internal • Microsoft.ServiceFabric.FabricTransport.Internal	3.4.664	N/A	https://www.nuget.org
	Microsoft.ServiceFabric.Data.Extensions	3.4.664	N/A	https://www.nuget.org
Java SDK	Java SDK	1.0.5	N/A	https://mvnrepository.com/artifact/com.microsoft.servicefabric/sf-actors/1.0.5
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

Area	Package	Version	Repository	Direct Download Link
	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
	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
PowerShell	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/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.de-de.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.en-us.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.es-es.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.fr-fr.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.it-it.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.ja-jp.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.ko-kr.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.ru-ru.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.zh-cn.msi

https://download.microsoft.com/download/7/1/7/71724eb1-7d4d-4fae-9c59-22f24729b749/MicrosoftAzureServiceFabricTools.VS140.zh-tw.msi