

# Azure Stack Hub 1907 release notes

## Azure Stack Hub release notes

This article describes the contents of Azure Stack Hub update packages. The update includes improvements and fixes for the latest release of Azure Stack Hub.

To access release notes for a different version, use the version selector dropdown above the table of contents on the left.

### Update planning

Before applying the update, make sure to review the following information:

- [Known issues](#)
- [Security updates](#)
- [Checklist of activities before and after applying the update](#)

For help with troubleshooting updates and the update process, see [Troubleshoot patch and update issues for Azure Stack Hub](#).

### 1907 build reference

The Azure Stack Hub 1907 update build number is **1.1907.0.20**.

### Update type

The Azure Stack Hub 1907 update build type is **Express**. For more information about update build types, see the [Manage updates in Azure Stack Hub](#) article. Based on internal testing, the expected time it takes for the 1907 update to complete is approximately 13 hours.

- Exact update runtimes typically depend on the capacity used on your system by tenant workloads, your system network connectivity (if connected to the internet), and your system hardware configuration.
- Runtimes lasting longer than expected aren't uncommon and don't require action by Azure Stack Hub operators unless the update fails.
- This runtime approximation is specific to the 1907 update and shouldn't be compared to other Azure Stack Hub updates.

## What's in this update

### What's new

- General availability release of the Azure Stack Hub diagnostic log collection service to facilitate and improve diagnostic log collection. The Azure Stack Hub diagnostic log collection service provides a simplified way to collect and share diagnostic logs with Microsoft Customer Support Services (CSS). This diagnostic log collection service provides a new user experience in the Azure Stack Hub administrator portal that enables operators to set up the automatic upload of diagnostic logs to a storage blob when certain critical alerts are raised. The service can also be used to perform the same operation on demand. For more information, see the [Diagnostic log collection](#) article.
- General availability release of the Azure Stack Hub network infrastructure validation as a part of the Azure Stack Hub validation tool **Test-AzureStack**. Azure Stack Hub network infrastructure will be a part of **Test-AzureStack**, to identify if a failure occurs on the network infrastructure of Azure Stack Hub. The test checks connectivity of the network infrastructure by bypassing the Azure Stack Hub software-defined network. It demonstrates connectivity from a public VIP to the configured DNS forwarders, NTP servers, and identity endpoints. It also checks for connectivity to Azure when using Azure AD as the identity provider, or the federated server when using ADFS. For more information, see the [Azure Stack Hub validation tool](#) article.
- Added an internal secret rotation procedure to rotate internal SQL TLS certificates as required during a system update.

### Improvements

- The Azure Stack Hub update blade now displays a **Last Step Completed** time for active updates. This addition can be seen by going to the update blade and clicking on a running update. **Last Step Completed** is then available in the **Update run details** section.
- Improvements to **Start-AzureStack** and **Stop-AzureStack** operator actions. The time to start Azure Stack Hub has been reduced by an average of 50%. The time to shut down Azure Stack Hub has been reduced by an average of 30%. The average startup and shutdown times remain the same as the number of nodes increases in a scale-unit.
- Improved error handling for the disconnected Marketplace tool. If a download fails or partially succeeds when using **Export-AzSOfflineMarketplaceItem**, a detailed error message displays with more details about the error and any possible mitigation steps.
- Improved the performance of managed disk creation from a large page blob/snapshot. Previously, it triggered a timeout when creating a large disk.
- Improved virtual disk health check before shutting down a node to avoid unexpected virtual disk detaching.

- Improved storage of internal logs for administrator operations. This addition results in improved performance and reliability during administrator operations by minimizing the memory and storage consumption of internal log processes. You might also notice improved page load times of the update blade in the administrator portal. As part of this improvement, update logs older than six months will no longer be available in the system. If you require logs for these updates, be sure to [Download the summary](#) for all update runs older than six months before performing the 1907 update.

### Changes

- Azure Stack Hub version 1907 contains a warning alert that instructs operators to be sure to update their system's OEM package to version 2.1 or later before updating to version 1908. For more information about how to apply Azure Stack Hub OEM updates, see [Apply an Azure Stack Hub original equipment manufacturer update](#).
- Added a new outbound rule (HTTPS) to enable communication for Azure Stack Hub diagnostic log collection service. For more information, see [Azure Stack Hub datacenter integration - Publish endpoints](#).
- The infrastructure backup service now deletes partially uploaded backups if the external storage location runs out of capacity.
- Infrastructure backups no longer include a backup of domain services data. This change only applies to systems using Azure Active Directory as the identity provider.
- We now validate that an image being ingested into the **Compute -> VM images** blade is of type page blob.
- The privileged endpoint command **Set-BmcCredential** now updates the credential in the Baseboard Management Controller.

### Fixes

- Fixed an issue in which the publisher, offer, and SKU were treated as case sensitive in a Resource Manager template: the image wasn't fetched for deployment unless the image parameters were the same case as that of the publisher, offer, and SKU.
- Fixed an issue with backups failing with a **PartialSucceeded** error message, due to timeouts during backup of storage service metadata.
- Fixed an issue in which deleting user subscriptions resulted in orphaned resources.
- Fixed an issue in which the description field wasn't saved when creating an offer.
- Fixed an issue in which a user with **Read only** permissions was able to create, edit, and delete resources. Now the user is only able to create resources when the **Contributor** permission is assigned.
- Fixed an issue in which the update fails due to a DLL file locked by the WMI provider host.

- Fixed an issue in the update service that prevented available updates from displaying in the update tile or resource provider. This issue was found in 1906 and fixed in hotfix [KB4511282](#).
- Fixed an issue that could cause updates to fail due to the management plane becoming unhealthy due to a bad configuration. This issue was found in 1906 and fixed in hotfix [KB4512794](#).
- Fixed an issue that prevented users from completing deployment of third-party images from the marketplace. This issue was found in 1906 and fixed in hotfix [KB4511259](#).
- Fixed an issue that could cause VM creation from managed images to fail due to our user image manager service crashing. This issue was found in 1906 and fixed in hotfix [KB4512794](#).
- Fixed an issue in which VM CRUD operations could fail due to the app gateway cache not being refreshed as expected. This issue was found in 1906 and fixed in hotfix [KB4513119](#).
- Fixed an issue in the health resource provider which impacted the availability of the region and alert blades in the administrator portal. This issue was found in 1906 and fixed in hotfix [KB4512794](#).

## Security updates

For information about security updates in this update of Azure Stack Hub, see [Azure Stack Hub security updates](#).

## Update planning

Before applying the update, make sure to review the following information:

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## Download the update

You can download the Azure Stack Hub 1907 update package from [the Azure Stack Hub download page](#).

## Hotfixes

Azure Stack Hub releases hotfixes on a regular basis. Be sure to install the latest Azure Stack Hub hotfix for 1906 before updating Azure Stack Hub to 1907.

Azure Stack Hub hotfixes are only applicable to Azure Stack Hub integrated systems; don't attempt to install hotfixes on the ASDK.

### Before applying the 1907 update

The 1907 release of Azure Stack Hub must be applied on the 1906 release with the following hotfixes:

- [Azure Stack Hub hotfix 1.1906.15.60](#)

### After successfully applying the 1907 update

After the installation of this update, install any applicable hotfixes. For more information, see our [servicing policy](#).

- [Azure Stack Hub hotfix 1.1907.26.70](#) ::: moniker-end

### Automatic update notifications

Systems that can access the internet from the infrastructure network will see the **Update available** message in the operator portal. Systems without internet access can download and import the .zip file with the corresponding .xml.

[!TIP]

Subscribe to the following *RSS* or *Atom* feeds to keep up with Azure Stack Hub hotfixes:

- [RSS](#)
- [Atom](#)

### Archive

To access archived release notes for an older version, use the version selector dropdown above the table of contents on the left and select the version you want to see.

### Next steps

- For an overview of the update management in Azure Stack Hub, see [Manage updates in Azure Stack Hub overview](#).
- For more information about how to apply updates with Azure Stack Hub, see [Apply updates in Azure Stack Hub](#).
- To review the servicing policy for Azure Stack Hub and what you must do to keep your system in a supported state, see [Azure Stack Hub servicing policy](#).
- To use the privileged endpoint (PEP) to monitor and resume updates, see [Monitor updates in Azure Stack Hub using the privileged endpoint](#).