



SANGFOR

Sangfor HCI
Version Release Notes
Version 6.1.0



Change Log

Date	Change Description
June 17, 2020	HCI 6.1.0 Version release notes.

CONTENT

Chapter 1 What is New?	1
Chapter 2 Resolved Issues	2
Chapter 3 Upgrade Instruction	3
3.1 Confirmation Before Upgrade.....	3
3.2 Upgrade Limitations	3
3.3 Upgrade Recommendations	4
3.4 Upgrade Procedure	4
3.5 Handling of Upgrade Failure.....	4
Chapter 4 Precautions	5

Chapter 1 What is New?

[New] Key-free licensing

- Support licensing to the HCI without physical USB key.

[New] Host Health Monitoring

- Added Host Health Monitoring to guarantee VM production.
- VM will be prioritize to be power on in the healthy node.

[New] New version of NFV template

- Added a new NFV version as shown below.
 1. vNGAF 8.0.17
 2. vIAM 12.0.14(Applied security patch)
 3. vAD7.0.9R1 (Will be released soon)

[New] Hygon CPU

- Support Hygon CPU.

[New] Security Correlation

- Added Correlated Security Service to correlate with Cyber Command (Version 3.0.50 which estimated release on August/September).

[New] IPv6 for virtual device

- Support IPv6 for virtual Router.
- Support IPv6 for Virtual Machine.
- Support IPv6 for new version NFV: vNGAF8.0.17 and vAD7.0.9R1

Chapter 2 Resolved Issues

[Fixed] Hot Upgrade (Severity: High)

After hot upgrade completed, there are 2 nodes out of 3 nodes were disconnected.

[Fixed] HA for Edge interface disconnection (Severity: High)

Under the scenario where HA is enabled during edge interface disconnection, the HA might be trigger by false alarm and affect production.

[Fixed] Backup Cleanup (Severity: High)

When multiple backup tasks are performed concurrently, the cleanup operation may also delete the images imported during backing up.

[Fixed] Administrator permission (Severity: Medium)

System admin with limited permissions on physical resources is able to add or delete the physical storage.

[Fixed] Management interface (Severity: Low)

If the management interface is a standalone interface in dpdk mode, the specified gateway becomes null when sdn process is stopped.

Chapter 3 Upgrade Instruction

3.1 Confirmation Before Upgrade

- Support upgrade from the following earlier HCI/aCloud versions:

6.0.1_R1_EN
6.0.1_EN
6.0.0_R4EN
6.0.0_R3EN
6.0.0_EN
5.8.8R1_EN
5.8.8_EN
5.8.7R1_EN
5.8.6_EN
5.8.5_EN
5.8.3_EN

Notes:

1. Support upgrade from versions installed with any service pack but not support upgrade from custom version.
2. To upgrade the version earlier than 5.8.3_EN to this version, it should be upgraded to the version 5.8.3_EN first.
3. It is required to install the package for pre-upgrade check a week before the official upgrade.

3.2 Upgrade Limitations

1. Before upgrade to this version, the version earlier than 5.8.3_EN should be upgraded to 5.8.3_EN first.
2. As a cluster scales out, converting configuration files takes longer, so does the upgrade process. For reference: upgrading a 11-node cluster running 1000 virtual machines may take 30 minutes while upgrading a 2-node cluster running 1000+ virtual machines (virtual storage: 6.4 TB) may just take 14 minutes.
3. After upgrade, it is required to reboot the device which has graphics card inserted but has not have IOMMU enabled.

Immediate Upgrade of Configurations, Logs and Data

Yes

Reboot Required After Upgrade

Reboot is required after upgrading from the version 5.8.5_EN and all R versions and earlier versions while it is not required after upgrading from the following versions: 5.8.6_EN, 5.8.7R1_EN, 5.8.8_EN, 5.8.8R1_EN, 6.0.0_EN, 6.0.0R3_EN, 6.0.0R4_EN, 6.0.1_EN, 6.0.1R1_EN

Time Taken

40 minutes

Upgrade Recommendations

Install the package for pre-upgrade check before upgrade. Make sure there are no hardware issues and then perform upgrade.

It is **recommended** to perform upgrade during **non-peak hour** or **non-production hour**.

3.3 Upgrade Recommendations

- Install the package for pre-upgrade check before upgrade. Make sure there are no hardware issues and then perform upgrade.
- Upgrade aCloud/HCI to latest version first before upgrade aCMP. Make sure aCloud/HCI and aCMP/SCP version is compatible.

3.4 Upgrade Procedure

1. Check whether the current version is a custom version or applied with any sp patch. Contact Sangfor Support for further assistance if it is custom version or applied with any sp patch.
2. Check the recycle bin and empty the recycle bin.
3. Check the Overlay IP Pool. It is required to be configured to avoid any problem caused in upgrade.
4. Install the package for pre-upgrade check.
5. Solve the detected issues or contact sangfor support for further assistance.
6. If the current version is earlier than 5.8.6_EN, it is required to upgrade the version to at least 5.8.6_EN and above first. Before upgrading, virtual network devices (NFV) and virtual machine is required to be shutdown. Besides, the nodes is required to reboot after upgrade successfully.
7. Make sure version of the update package to be installed is HCI6.1.0_EN official version.
8. Check the environment for upgrade.
9. Load the update package of HCI6.1.0_EN version.
10. For hot upgrade, exit upgrade after upgrade finishes. For cold upgrade, restarting device is required to finish the upgrade.

3.5 Handling of Upgrade Failure

Scenario 1: There is virtual machine or virtual network device which has not been shut down.

Solution: Shut down virtual machines and virtual network devices manually.

Scenario 2: Network is not stable due to reboot or unstable cluster.

Solution: Wait for the cluster or network to become stable and then perform upgrade again.

Chapter 4 Precautions

1. Recommend perform database perform testing with hosts with RAM **greater than 256GB**.
2. Memory over-commitment
 - It's not recommended unless necessary, because memory over-commitment could have negative impact on performance.
 - When the actual consumed memory of VMs is nearing the physical memory of the host, memory swap will happen and the performance of VMs will be degraded. When SWAP is used up, low priority VMs will be killed off.
3. When migrating/restoring VMware VMs to aCloud, IP addresses of the VMs can be automatically obtained as long as the source VMs are installed with VMware Tools.
4. Live upgrade is supported by 5.8.6 and later versions.



Copyright © SANGFOR Technologies Inc. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of SANGFOR Technologies Inc.

SANGFOR is the trademark of SANGFOR Technologies Inc. All other trademarks and trade names mentioned in this document are the property of their respective holders. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

The information in this document is subject to change without notice.

To obtain the latest version, contact the international service center of SANGFOR Technologies Inc

