Sangfor HCI
Version Release Notes
Version 6.2.0

Change Log

Date	Change Description
January 29, 2021	HCI 6.2.0 Version release notes.

CONTENT

Chapter 1 What is New?

[New] SNMP Service

- SNMP protocol and port can be enabled/disabled at port management.

[New] Online SP Service

- Support online SP patching.
- Support 4 types of connectivity to SP server for different scenario.

[New] Disk-based Datastore creation

- Support to create virtual storage volume based on disks instead of nodes.

[New] Storage interface multiplexing

- Storage interface is now supported to share the same physical interface with others usage of interface.
- VM will be prioritize to be power on in the healthy node.
- Currently only Mellanox CX4 and Intel X710 support for 4 interfaces multiplexing.

[New] PaaS integration

- PaaS is now supported in 6.2.0.
- KubeManager is available to integrate for PaaS management and operation.

[New] Virtual Storage Forecast

- Prediction for the storage capacity usage.
- Prediction for the disk's bad sectors.
- Prediction for the SSD's lifetime.

[Enhanced] VM Scheduling

- Added VM Group and Host group.
- Support VM Group Anti-Affinity.
- Support Host Affinity for selected VM Group.

[Enhanced] Security Aspect

- Password policy allow to specify password length, complexity and validity.
- Support VM disk encryption.
- Port management option is available to disable unused port.
- VM data erasure after the VM had been deleted.

[Removed] Windows Shared Folder

- Backup repository no longer support adding Windows Shared Folder.
- Existing Windows Shared Folder is still usable, but unable to add new.

[Removed] Spare disk

- Spare disk has been removed since HCI6.2.0 in virtual storage.

- Existing spare disk will not be affected while new spare disk for expanding or initializing virtual storage is not longer available.

Chapter 2 Resolved Issues

[Fixed] VM data loss when running disksafe application (Severity: High)

For the windows VM migrated to HCI, data loss might occur when disksafe application is running for backup purpose.

[Fixed] Memory Reclaiming (Severity: Medium)

Fixed that the memory reclaiming features is not enabled by default.

[Fixed] Importing OVF file (Severity: Medium)

VM import might failed if the OVF file being import when the VS having high latency.

[Fixed] Failed to take snapshot for consistency group (Severity: Low)

When taking snapshot for consistency group, the operation failed and prompt "System unavailable".

Chapter 3 Upgrade Instruction

3.1 Confirmation Before Upgrade

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

  6.2.0_EN Build20201116
  6.1.0_EN
  6.0.1_R1_EN
  6.0.1_EN
  6.0.0_R5EN
  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, 6.0.0R5_EN, 6.0.1_EN, 6.0.1R1_EN, 6.1.0_EN, 6.2.0_EN Build20201116.

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/SCP. Make sure aCloud/HCI and aCMP/SCP version is compatible. Starting from SCP6.1.0, it is supported to manage multi-version of HCI.

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 HCI6.2.0_EN official version.

8. Check the environment for upgrade.

9. Load the update package of HCI6.2.0_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

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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/HCI, 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.