

# SafeHaven 4.0 Release Notes

## 1. New Features

- Improved performance: suitable for highly transactional workloads
- Better automation: automated installation of: the local mirroring driver and automated deployment and configuration of the proxy recovery servers. Both are exposed through a new Protection Group provisioning wizard.
- Variable page size in the recovery data center allows for greater storage efficiency for checkpoints
- Better disk cache management
- Better release management and version control
- Removed password constraints
- Improved GUI

## 2. Support Matrix

### 2.1. OS

- Windows: Windows2008R2, Win2012R1, Win2012R2
- Linux: RHEL (CentOS)-5/6/7, Ubuntu-12/14, openSUSE-11/13

### 2.2. Data Center Types

- VMware vSphere
- CLC
- MANUAL

### 2.3. Data Protection Types

- Local Replica
- Local Cache (Windows OS only)

## 2.4. Limits of standard deployments (SRN on 2 CPUs, 4GB RAM)

Item	Limit	Comments
Number of Sites per CMS	8	
Number of SRNs per CMS	64	
Number of Disks attached to SRN as storage pools	12	CLC default limit of disks per VM is 15
Number of Protected Disks (in protected VMs) per SRN	20	
Number of Disks per Protected Windows Guest	8	
Total Storage per Windows Guest	9TB	CLC default limit is 4TB
Total Storage per Linux Guest	9TB	CLC default limit is 4TB
Total Storage per SRN	32TB	CLC default limit is 4TB
Number of Protection Group per SRN	10	16 is the absolute limit
Number of Protected VMs per SRN	10	
Number of PGs per CMS	320	
Number of Protected VMs per CMS	320	
Capacity per Disk	9TB	CLC default limit is 1TB
Capacity per PG	9TB	GUI limits numbers to 9999GB
VMs per PG	5	

Currently, CLC limits a VM to 15 disks, a total of 4TB capacity and a maximum of 1TB per disk capacity.

- With special requests to the customer request team, they can typically accommodate up to 12TB per VM with maximum individual disk capacity limited to 4TB.
- The CLC default limits might change in the near future.

## 2.5. Enhanced Deployments (SRN with 4 cores, 8GB RAM)

Item	Limit	Comments
Number of Protection Group per SRN	16	
Number of Protected VMs per SRN	32	

## 2.6. Known Limitations

- We do not support Windows VMs using E1000E NIC
- Linux VM onboarding: we do not support the protected guest running on a different subnet from the SRN iSCSI IP.

## 2.7. Password Limitations

- CMS root password: no constraints
- SRN root password: ' (single quote) and ^ are legitimate Linux characters but not supported by SH-4.0. GUI will warn about it.
- SafeHaven user password: no constraints
- Windows Ansible password: not supporting " (double quote)
- Email SSMTP password: not supporting # : = and (space)
- vSphere password: password cannot have space at the beginning or the end.
- CLC password: no constraints