

NAME

Sys::Virt::DomainSnapshot – Represent & manage a libvirt guest domain

DESCRIPTION

The `Sys::Virt::DomainSnapshot` module represents a guest domain managed by the virtual machine monitor.

METHODS

`my $str = $domss->get_name()`

Return the name of the snapshot

`my $xml = $domss->get_xml_description($flags)`

Returns an XML document containing a complete description of the domain snapshot's configuration. The `$flags` parameter accepts the following constants

`Sys::Virt::DomainSnapshot::XML_SECURE`

Include security sensitive information in the XML dump, such as passwords.

`$domss->delete($flags)`

Deletes this snapshot object & its data. The optional `$flags` parameter controls what should be deleted via the `Sys::Virt::DomainSnapshot::DELETE_*` constants.

`$domss->revert_to($flags)`

Revert the domain to the state associated with this snapshot. The optional `$flags` control the state of the vm after the revert via the `Sys::Virt::DomainSnapshot::REVERT_*` constants.

`$parentss = $domss->get_parent();`

Return the parent of the snapshot, if any

`$res = $domss->is_current()`

Returns a true value if this is the current snapshot. False otherwise.

`$res = $domss->has_metadata()`

Returns a true value if this snapshot has metadata associated with it.

`$count = $domss->num_of_child_snapshots()`

Return the number of saved snapshots which are children of this snapshot

`@names = $domss->list_child_snapshot_names()`

List the names of all saved snapshots which are children of this snapshot . The names can be used with the `lookup_snapshot_by_name`

`@snapshots = $domss->list_child_snapshots()`

Return a list of all snapshots that are children of this snapshot. The elements in the returned list are instances of the `Sys::Virt::DomainSnapshot` class. This method requires $O(n)$ RPC calls, so the `list_all_children` method is recommended as a more efficient alternative.

`my @snapshots = $domss->list_all_children($flags)`

Return a list of all domain snapshots that are children of this snapshot. The elements in the returned list are instances of the `Sys::Virt::DomainSnapshot` class. The `$flags` parameter can be used to filter the list of return domain snapshots.

CONSTANTS**SNAPSHOT CREATION**

The following constants are useful when creating snapshots

`Sys::Virt::DomainSnapshot::CREATE_CURRENT`

Set the defined snapshot to be the current snapshot

`Sys::Virt::DomainSnapshot::CREATE_DISK_ONLY`

Only snapshot the disk, not the memory state

`Sys::Virt::DomainSnapshot::CREATE_HALT`

Stop the guest after creating the snapshot

Sys::Virt::DomainSnapshot::CREATE_NO_METADATA

Do not save any metadata for the snapshot

Sys::Virt::DomainSnapshot::CREATE_REDEFINE

Replace/set the metadata with the snapshot

Sys::Virt::DomainSnapshot::CREATE_QUIESCE

Quiesce the guest disks while taking the snapshot

Sys::Virt::DomainSnapshot::CREATE_REUSE_EXT

Reuse the existing snapshot data files (if any)

Sys::Virt::DomainSnapshot::CREATE_ATOMIC

Create multiple disk snapshots atomically

Sys::Virt::DomainSnapshot::CREATE_LIVE

Create snapshot while the guest is running

Sys::Virt::DomainSnapshot::CREATE_VALIDATE

Validate the XML document against the schema

SNAPSHOT DELETION

The following constants are useful when deleting snapshots

Sys::Virt::DomainSnapshot::DELETE_CHILDREN

Recursively delete any child snapshots

Sys::Virt::DomainSnapshot::DELETE_CHILDREN_ONLY

Only delete the child snapshots

Sys::Virt::DomainSnapshot::DELETE_METADATA_ONLY

Only delete the snapshot metadata

SNAPSHOT LIST

The following constants are useful when listing snapshots

Sys::Virt::DomainSnapshot::LIST_METADATA

Only list snapshots which have metadata

Sys::Virt::DomainSnapshot::LIST_ROOTS

Only list snapshots which are root nodes in the tree

Sys::Virt::DomainSnapshot::LIST_DESCENDANTS

Only list snapshots which are descendants of the current snapshot

Sys::Virt::DomainSnapshot::LIST_LEAVES

Only list leaf nodes in the snapshot tree

Sys::Virt::DomainSnapshot::LIST_NO_LEAVES

Only list non-leaf nodes in the snapshot tree

Sys::Virt::DomainSnapshot::LIST_NO_METADATA

Only list snapshots without metadata

Sys::Virt::DomainSnapshot::LIST_ACTIVE

Only list snapshots taken while the guest was running

Sys::Virt::DomainSnapshot::LIST_INACTIVE

Only list snapshots taken while the guest was inactive

Sys::Virt::DomainSnapshot::LIST_EXTERNAL

Only list snapshots stored in external disk images

Sys::Virt::DomainSnapshot::LIST_INTERNAL

Only list snapshots stored in internal disk images

Sys::Virt::DomainSnapshot::LIST_DISK_ONLY

Only list snapshots taken while the guest was running, which did not include memory state.

Sys::Virt::DomainSnapshot::LIST_TOPOLOGICAL

Sort list in topological order wrt to parent/child relationships.

SNAPSHOT REVERT

The following constants are useful when reverting snapshots

Sys::Virt::DomainSnapshot::REVERT_PAUSED

Leave the guest CPUs paused after reverting to the snapshot state

Sys::Virt::DomainSnapshot::REVERT_RUNNING

Start the guest CPUs after reverting to the snapshot state

Sys::Virt::DomainSnapshot::REVERT_FORCE

Force the snapshot to revert, even if it is risky to do so

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SEE ALSO

Sys::Virt, Sys::Virt::Error, <http://libvirt.org>