Sys::Virt::Error(3pm)

NAME

Sys::Virt::Error – error object for libvirt APIs

DESCRIPTION

The Sys::Virt::Error class provides an encoding of the libvirt errors. Instances of this object can be thrown by pretty much any of the Sys::Virt APIs.

METHODS

\$err->stringify

Convert the object into string format suitable for printing on a console to inform a user of the error.

my \$code = \$err->level

Return the raw error level represented by this error. One of the ERROR LEVEL CONSTANTS

my \$code = \$err->code

Return the raw error code represented by this error. One of the ERROR CODE CONSTANTS

my \$from = \$err->domain

Return the error domain raising this error. One of the ERROR DOMAIN CONSTANTS

my \$msg = \$err->message

Return an informative message describing the error condition.

CONSTANTS

ERROR LEVEL CONSTANTS

Sys::Virt::Error::LEVEL_NONE
Undefined error level

Sys::Virt::Error::LEVEL_WARNING

Warning error level

Sys::Virt::Error::LEVEL_ERROR

Fatal error level

ERROR DOMAIN CONSTANTS

The error domain indicates which internal part of libvirt the error report was raised from.

Sys::Virt::Error::FROM_CONF

Configuration file handling

Sys::Virt::Error::FROM_DOM

Error while operating on a domain

Sys::Virt::Error::FROM_DOMAIN
Domain configuration handling

Sys::Virt::Error::FROM_LXC LXC virtualization driver

Sys::Virt::Error::FROM_NET

Error while operating on a network

Sys::Virt::Error::FROM_NETWORK
Network configuration handling

Sys::Virt::Error::FROM_NODEDEV

Node device configuration handling

Sys::Virt::Error::FROM_NONE No specific error domain.

Sys::Virt::Error::FROM_OPENVZ OpenVZ virtualization driver Sys::Virt::Error::FROM_PROXY

Xen proxy virtualization driver

Sys::Virt::Error::FROM_QEMU

QEMU virtualization driver

Sys::Virt::Error::FROM_REMOTE
Remote client virtualization driver

Sys::Virt::Error::FROM_RPC XML-RPC handling code

Sys::Virt::Error::FROM_SECURITY
Security services driver

Sys::Virt::Error::FROM_SEXPR SEXPR parsing code

Sys::Virt::Error::FROM_STATS_LINUX
Device statistics code

Sys::Virt::Error::FROM_STORAGE Storage configuration handling

Sys::Virt::Error::FROM_TEST
Test virtualization driver

Sys::Virt::Error::FROM_UML UML virtualization driver

Sys::Virt::Error::FROM_XEN
Xen hypervisor driver

Sys::Virt::Error::FROM_XEND XenD daemon driver

Sys::Virt::Error::FROM_XENSTORE XenStore driver

Sys::Virt::Error::FROM_XENXM
Xen XM configuration file driver

Sys::Virt::Error::FROM_XEN_INOTIFY
Xen Inotify events driver

Sys::Virt::Error::FROM_XML Low level XML parser

Sys::Virt::Error::FROM_ESX
The VMWare ESX driver

Sys::Virt::Error::FROM_INTERFACE
The host network interface driver

Sys::Virt::Error::FROM_ONE

The Open Nebula driver. This constant is no longer used and retained only for backwards compatibility

Sys::Virt::Error::FROM_PHYP

The IBM Power Hypervisor driver

Sys::Virt::Error::FROM_SECRET
The secret management driver

Sys::Virt::Error::FROM_VBOX
The VirtualBox driver

Sys::Virt::Error::FROM_AUDIT

The audit driver

Sys::Virt::Error::FROM_CPU
The CPU information driver

Sys::Virt::Error::FROM_DOMAIN_SNAPSHOT

The domain snapshot driver

Sys::Virt::Error::FROM_HOOK
The daemon hook driver

Sys::Virt::Error::FROM_NWFILTER

The network filter driver

Sys::Virt::Error::FROM_STREAMS

The data streams driver

Sys::Virt::Error::FROM_SYSINFO
The system information driver

Sys::Virt::Error::FROM_VMWARE

The VMWare driver

Sys::Virt::Error::FROM_XENAPI

The XenAPI driver

Sys::Virt::Error::FROM_EVENT

The event driver

 $Sys::Virt::Error::FROM_LIBXL$

The libxl Xen driver

Sys::Virt::Error::FROM_LOCKING

The lock manager drivers

Sys::Virt::Error::FROM_HYPERV

The Hyper-V driver

Sys::Virt::Error::FROM_CAPABILITIES

The capabilities driver

Sys::Virt::Error::FROM_AUTH

The authentication handling code

Sys::Virt::Error::FROM_URI

The URI handling code

Sys::Virt::Error::FROM_DBUS

The DBus handling code

Sys::Virt::Error::FROM_DEVICE

The device handling code

Sys::Virt::Error::FROM_SSH

The libSSH2 socket client

Sys::Virt::Error::FROM_PARALLELS

The Parallels virtualization driver

Sys::Virt::Error::FROM_LOCKSPACE

The lockspace handling code

Sys::Virt::Error::FROM_INITCTL

The initctl client code

Sys::Virt::Error::FROM_CGROUP

The cgroups code

Sys::Virt::Error::FROM_IDENTITY
The identity management code

Sys::Virt::Error::FROM_ACCESS
The access control code

Sys::Virt::Error::FROM_SYSTEMD
The systemd init service

Sys::Virt::Error::FROM_BHYVE
The FreeBSD BHyve driver

Sys::Virt::Error::FROM_CRYPTO The cryptographic helper APIs.

Sys::Virt::Error::FROM_FIREWALL The firewall helper APIs.

Sys::Virt::Error::FROM_POLKIT

The polkit authentication / authorization APIs

Sys::Virt::Error::FROM_THREAD
The thread helper utils

Sys::Virt::Error::FROM_ADMIN
The administrative service

Sys::Virt::Error::FROM_LOGGING

The logging service

Sys::Virt::Error::FROM_XENXL

The Xen XL driver

Sys::Virt::Error::FROM_PERF

The performance events subsystem

Sys::Virt::Error::FROM_LIBSSH
The libSSH socket client

Sys::Virt::Error::FROM_RESCTRL
The resource control subsystem

Sys::Virt::Error::FROM_FIREWALLD

The firewalld service

Sys::Virt::Error::FROM_DOMAIN_CHECKPOINT

The domain checkpoint Sys::Virt::Error::FROM_TPM

The TPM subsystem

Sys::Virt::Error::FROM_BPF
The BPF subsystem

Sys::Virt::Error::FROM_CH
The Cloud Hypervisor driver

ERROR CODE CONSTANTS

The error codes allow for specific problems to be identified and handled separately from generic error handling.

Sys::Virt::Error::ERR_AUTH_FAILED

Authentication falure when connecting to a driver

- Sys::Virt::Error::ERR_CALL_FAILED
 - Operation not supported by driver (DEPRECATED & unused)
- Sys::Virt::Error::ERR_CONF_SYNTAX
 Configuration file syntax error
- Sys::Virt::Error::ERR_DOM_EXIST The domain already exists
- Sys::Virt::Error::ERR_DRIVER_FULL
 - Too many hypervisor drivers have been registered
- Sys::Virt::Error::ERR_GET_FAILED
 - HTTP GET command failed talking to XenD
- Sys::Virt::Error::ERR_GNUTLS_ERROR GNUTLS encryption error in RPC driver
- Sys::Virt::Error::ERR_HTTP_ERROR
 Unexpected HTTP error code from XenD
- Sys::Virt::Error::ERR_INTERNAL_ERROR
 Generic internal error
- Sys::Virt::Error::ERR_INVALID_ARG Invalid argument supplied to function
- Sys::Virt::Error::ERR_INVALID_CONN Invalid connection object
- Sys::Virt::Error::ERR_INVALID_DOMAIN Invalid domain object
- Sys::Virt::Error::ERR_INVALID_MAC Invalid MAC address string
- Sys::Virt::Error::ERR_INVALID_NETWORK Invalid network object
- Sys::Virt::Error::ERR_INVALID_NODE_DEVICE Invalid node device object
- Sys::Virt::Error::ERR_INVALID_STORAGE_POOL Invalid storage pool object
- Sys::Virt::Error::ERR_INVALID_STORAGE_VOL Invalid storage vol object
- Sys::Virt::Error::ERR_NETWORK_EXIST
 Network with this name/uuid already exists
- Sys::Virt::Error::ERR_NO_CONNECT
 Unable to connect to requested hypervisor driver
- Sys::Virt::Error::ERR_NO_DEVICE Missing device information
- Sys::Virt::Error::ERR_NO_DOMAIN

 No such domain with that name/uuid/id
- Sys::Virt::Error::ERR_NO_KERNEL
 Missing kernel information in domain configuration
- Sys::Virt::Error::ERR_NO_MEMORY
 Missing memory information in domain configuration

- Sys::Virt::Error::ERR_NO_NAME
 - Missing name in object configuration
- Sys::Virt::Error::ERR_NO_NETWORK
 No such network with that name/uuid
- Sys::Virt::Error::ERR_NO_NODE_DEVICE No such node device with that name
- Sys::Virt::Error::ERR_NO_OS
 - Missing OS information in domain configuration
- Sys::Virt::Error::ERR_NO_ROOT
 - Missing root device information in domain configuration
- Sys::Virt::Error::ERR_NO_SECURITY_MODEL
 - Missing security model information in domain configuratio
- Sys::Virt::Error::ERR_NO_SOURCE
 - Missing source device information in domain configuration
- Sys::Virt::Error::ERR_NO_STORAGE_POOL No such storage pool with that name/uuid
- Sys::Virt::Error::ERR_NO_STORAGE_VOL
 - No such storage volume with that name/path/key
- Sys::Virt::Error::ERR_NO_SUPPORT
 - This operation is not supported by the active driver
- Sys::Virt::Error::ERR_NO_TARGET
 - Missing target device information in domain configuration
- Sys::Virt::Error::ERR_NO_XEN
 - Unable to connect to Xen hypervisor
- Sys::Virt::Error::ERR NO XENSTORE
 - Unable to connect to XenStorage daemon
- Sys::Virt::Error::ERR_OK
 - No error code. This should never be see
- Sys::Virt::Error::ERR_OPEN_FAILED
 - Unable to open a configuration file
- Sys::Virt::Error::ERR_OPERATIONED_DENIED
 - The operation is forbidden for the current connection
- Sys::Virt::Error::ERR_OPERATION_FAILED
 - The operation failed to complete
- Sys::Virt::Error::ERR_OS_TYPE
 - Missing/incorrect OS type in domain configuration
- Sys::Virt::Error::ERR_PARSE_FAILED
 - Failed to parse configuration file
- Sys::Virt::Error::ERR_POST_FAILED
 - HTTP POST failure talking to XenD
- Sys::Virt::Error::ERR_READ_FAILED
 - Unable to read from configuration file
- Sys::Virt::Error::ERR_RPC
 - Generic RPC error talking to XenD

- Sys::Virt::Error::ERR_SEXPR_SERIAL Failed to generic SEXPR for XenD
- Sys::Virt::Error::ERR_SYSTEM_ERROR
 Generic operating system error
- Sys::Virt::Error::ERR_UNKNOWN_HOST Unknown hostname
- Sys::Virt::Error::ERR_WRITE_FAILED Failed to write to configuration file
- Sys::Virt::Error::ERR_XEN_CALL Failure while talking to Xen hypervisor
- Sys::Virt::Error::ERR_XML_DETAIL
 Detailed XML parsing error
- Sys::Virt::Error::ERR_XML_ERROR
 Generic XML parsing error
- Sys::Virt::Error::WAR_NO_NETWORK
 Warning that no network driver is activated
- Sys::Virt::Error::WAR_NO_NODE

 Warning that no node device driver is activated
- Sys::Virt::Error::WAR_NO_STORAGE
- Warning that no storage driver is activated Sys::Virt::Error::ERR_INVALID_INTERFACE
- Invalid network interface object
- Sys::Virt::Error::ERR_NO_INTERFACE
 No interface with the matching name / mac address
- Sys::Virt::Error::ERR_OPERATION_INVALID

 The requested operation is not valid for the current object state
- Sys::Virt::Error::WAR_NO_INTERFACE
 The network interface driver is not available
- Sys::Virt::Error::ERR_MULTIPLE_INTERFACES

 There are multiple interfaces with the requested MAC address
- Sys::Virt::Error::ERR_BUILD_FIREWALL
 The firwall could not be constructed
- Sys::Virt::Error::WAR_NO_NWFILTER

 The network filter driver could not be activated
- Sys::Virt::Error::ERR_NO_NWFILTER
 There is no network filter driver available
- Sys::Virt::Error::ERR_INVALID_NWFILTER
 The network filter object was invalid
- Sys::Virt::Error::WAR_NO_SECRET

 There secret management driver is not available
- Sys::Virt::Error::ERR_NO_SECRET

 No secret with the matching uuid / usage ID
- Sys::Virt::Error::ERR_INVALID_SECRET Invalid secret object

- Sys::Virt::Error::ERR_CONFIG_UNSUPPORTED
 - The requested XML configuration is not supported by the hypervisor
- Sys::Virt::Error::ERR_OPERATION_TIMEOUT

The operation could not be completed in a satisfactory time

- $Sys:: Virt:: Error:: ERR_MIGRATE_PERSIST_FAILED$
 - Unable to persistent the domain configuration after migration successfully completed
- $Sys:: Virt:: Error:: ERR_HOOK_SCRIPT_FAILED$

Execution of a daemon hook script failed

Sys::Virt::Error::ERR_INVALID_DOMAIN_SNAPSHOT

The domain snapshot object pointer was invalid

Sys::Virt::Error::ERR_NO_DOMAIN_SNAPSHOT

No matching domain snapshot was found

Sys::Virt::Error::ERR_INVALID_STREAM

The stream object pointer was invalid

Sys::Virt::Error::ERR_ARGUMENT_UNSUPPORTED

The argument value was not supported by the driver

Sys::Virt::Error::ERR_STORAGE_POOL_BUILT

The storage pool has already been built

Sys::Virt::Error::ERR_STORAGE_PROBE_FAILED

Probing the storage pool failed

Sys::Virt::Error::ERR_SNAPSHOT_REVERT_RISKY

Reverting the snapshot could cause data loss

Sys::Virt::Error::ERR_OPERATION_ABORTED

The asynchronous operation was aborted at admin request

Sys::Virt::Error::ERR_AUTH_CANCELLED

The user cancelled the authentication process

Sys::Virt::Error::ERR_NO_DOMAIN_METADATA

The requested metadata does not exist

Sys::Virt::Error::ERR_MIGRATE_UNSAFE

The migration operation would be unsafe to perform

Sys::Virt::Error::ERR_OVERFLOW

The calculation would overflow

Sys::Virt::Error::ERR_BLOCK_COPY_ACTIVE

Action prevented by block copy job

Sys::Virt::Error::ERR_AGENT_UNRESPONSIVE

The guest agent is not responding

Sys::Virt::Error::ERR_OPERATION_UNSUPPORTED

The operation is not supported on this host

Sys::Virt::Error::ERR_SSH

The SSH operation failed

Sys::Virt::Error::ERR_RESOURCE_BUSY

The resource requested is already in use

- Sys::Virt::Error::ERR_ACCESS_DENIED
 - Not authorized to perform the operation

- Sys::Virt::Error::ERR_DBUS_SERVICE
 An error from a DBus service API
- Sys::Virt::Error::ERR_STORAGE_VOL_EXIST
 The storage volume already exists
- Sys::Virt::Error::ERR_CPU_INCOMPATIBLE
 The CPUs are not compatible
- Sys::Virt::Error::ERR_INVALID_SCHEMA

 The XML document does not comply with the XML schema
- Sys::Virt::Error::ERR_MIGRATE_FINISH_OK
 Migration finished but expected to return NULL domain.
- Sys::Virt::Error::ERR_AUTH_UNAVAILABLE Authentication services were not available
- Sys::Virt::Error::ERR_NO_SERVER
 Libvirt server was not found
- Sys::Virt::Error::ERR_NO_CLIENT Libvirt client was not found
- Sys::Virt::Error::ERR_AGENT_UNSYNCED
 Libvirt guest agent replies with wrong id to guest-sync command
- Sys::Virt::Error::ERR_LIBSSH
 The libSSH operation failed
- Sys::Virt::Error::ERR_DEVICE_MISSING Libvirt fail to find the desired device.
- Sys::Virt::Error::ERR_INVALID_NWFILTER_BINDING Invalid nwfilter binding
- Sys::Virt::Error::ERR_NO_NWFILTER_BINDING
 No nwfilter binding
- Sys::Virt::Error::ERR_INVALID_DOMAIN_CHECKPOINT Invalid domain checkpoint
- Sys::Virt::Error::ERR_NO_DOMAIN_BACKUP Domain checkpoint not found
- Sys::Virt::Error::ERR_NO_DOMAIN_CHECKPOINT Domain backup job id not found
- Sys::Virt::Error::ERR_NO_NETWORK_PORT No matching network port
- Sys::Virt::Error::ERR_INVALID_NETWORK_PORT Invalid network port object
- Sys::Virt::Error::ERR_NETWORK_PORT_EXIST Network port already exists
- Sys::Virt::Error::ERR_NO_HOSTNAME No domain hostname found
- Sys::Virt::Error::ERR_CHECKPOINT_INCONSISTENT The checkpoint is inconsistent
- Sys::Virt::Error::ERR_MULTIPLE_DOMAINS

 More than one matching domain found

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SEE ALSO

Sys::Virt::Domain, Sys::Virt, http://libvirt.org