[MS-CMRP]: Failover Cluster: Management API (ClusAPI) Protocol

August 24, 2020 – Download

Errata below are for Protocol Document Version V40.0 – 2021/06/25.

Errata Published*	Description
2021/09/07	In Section 3.1.1.1.3 Resource Type, Removed internal code
	Changed from:
	The resource type is part of the configuration of a resource and is thus included in nonvolatile cluster state. A resource type can have certain requirements for proper operation. These are referred to as its characteristics and they convey the following requirements to the cluster:
	• Only one instance of this resource type is allowed in the cluster.
	• Only one instance of this resource type is allowed in a group.
	• The CLUSCTL_RESOURCE_DELETE resource control is sent to every active node.
	• All configured nodes need to be active in order to delete the resource.
	Changed to:
	The resource type is part of the configuration of a resource and is thus included in nonvolatile cluster state. A resource type can have certain requirements for proper operation. These are referred to as its characteristics and they convey the following requirements to the cluster:
	• Only one instance of this resource type is allowed in the cluster.
	• Only one instance of this resource type is allowed in a group.
	• The deletion of a resource type is sent to every active node.
	• All configured nodes need to be active in order to delete the resource.
	In Section 3.1.4.2.126 ApiPauseNodeWithDrainTarget (Opnum 127), Corrected typo
	Changed from:
	The server MUST fail this method with ERROR_HOST_NODE_NOT_AVAILABLE (0x0000138D) if the node designated by the hNodeEvacuationTarget parameter is not in the ClusterNodeUp state as specified in section 3.1.4.2.69.
	hNodeDrainTarget: An HNODE_RPC context handle to the destination node, obtained in a previous call to ApiOpenNode (section 3.1.4.1.67) or ApiOpenNodeEx (section 3.1.4.2.117). The hNodeDrainWithDrainTarget parameter MUST NOT specify the same node as the hNode parameter.

Errata Published*	Description
	Changed to:
	The server MUST fail this method with ERROR_HOST_NODE_NOT_AVAILABLE (0x0000138D) if the node designated by the hNodeDrainTarget parameter is not in the ClusterNodeUp state as specified in section 3.1.4.2.69
	hNodeDrainTarget: An HNODE_RPC context handle to the destination node, obtained in a previous call to ApiOpenNode (section 3.1.4.1.67) or ApiOpenNodeEx (section 3.1.4.2.117). The hNodeDrainTarget parameter MUST NOT specify the same node as the hNode parameter.
	In Section 3.1.4.3.2.36 CLUSCTL_RESOURCE_TYPE_REPLICATION_GET_REPLICA_VOLUMES, Renamed PropertyList to Property List
	Changed from:
	Upon successful completion of this method, the server MUST provide in the buffer designated by the lpOutBuffer parameter a PropertyList containing two properties. The first property MUST have as name the null-terminated Unicode string "SourceVolumes", and the second property MUST have as name the null-terminated Unicode string "TargetVolumes". These two properties MUST contain the same number of PropertyValue structures. The PropertyValue structures MUST be ordered such that the first structure in the "SourceVolumes" list represents a volume that can be paired with the volume represented by the first structure in the "TargetVolumes" list, and so on. The PropertyValue structures MUST have syntax set to CLUSPROP_SYNTAX_LIST_VALUE_SZ, and the buffer MUST contain the null-terminated Unicode name of the volume in the volume GUID format. For example:
	Changed to:
	Upon successful completion of this method, the server MUST provide in the buffer designated by the lpOutBuffer parameter a Property List containing two properties. The first property MUST have as name the null-terminated Unicode string "SourceVolumes", and the second property MUST have as name the null-terminated Unicode string "TargetVolumes". These two properties MUST contain the same number of PropertyValue structures. The PropertyValue structures MUST be ordered such that the first structure in the "SourceVolumes" list represents a volume that can be paired with the volume represented by the first structure in the "TargetVolumes" list, and so on. The PropertyValue structures MUST have syntax set to CLUSPROP_SYNTAX_LIST_VALUE_SZ, and the buffer MUST contain the null-terminated Unicode name of the volume in the volume GUID format. For example:
	In Section 3.1.4.3.2.37 CLUSCTL_RESOURCE_TYPE_REPLICATION_GET_LOG_VOLUME, Renamed PropertyList to Property List
	Changed from:
	Upon successful completion of this method, the server MUST provide in the buffer designated by the lpOutBuffer parameter a PropertyList containing one Property Value. The value MUST have as name the null-terminated Unicode string "LogVolume". The symtax of this value MUST be set to CLUSPROP_SYNTAX_LIST_VALUE_SZ and the property value buffer MUST contain a null-terminated Unicode string containing the path at which log data can be written.
	Changed to:
	Upon successful completion of this method, the server MUST provide in the buffer designated by the lpOutBuffer parameter a Property List containing one Property Value. The value MUST

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	have as name the null-terminated Unicode string "LogVolume". The symtax of this value MUST be set to CLUSPROP_SYNTAX_LIST_VALUE_SZ and the property value buffer MUST contain a null-terminated Unicode string containing the path at which log data can be written. In Section 3.1.4.3.4.22 CLUSCTL_NODE_SCALEOUTNODE_PLACEMENT_UPDATE, Renamed IpInBuffer to lpInBuffer Changed from: If CLUSREG_NAME_RES_VM_ID is not provided in the IpInBuffer, the server MUST fail the request with ERROR_INVALID_DATA. If SCALEOUT_PLACEMENT_RESULT_VM_MIGRATION_RESULT is not provided in the IpInBuffer, the server MUST fail the request with ERROR_INVALID_DATA. Changed to: If CLUSREG_NAME_RES_VM_ID is not provided in the lpInBuffer, the server MUST fail the request with ERROR_INVALID_DATA. If SCALEOUT_PLACEMENT_RESULT_VM_MIGRATION_RESULT is not provided in the lpInBuffer, the server MUST fail the request with ERROR_INVALID_DATA. In Section 3.1.4.3.7.19 CLUSCTL_CLUSTER_CLEAR_UPGRADE_IN_PROGRESS, Fixed typo Changed from: The server MUST accept a CLUSCTL_CLUSTER_CLEAR UPGRADE_IN_PROGRESS cluster control code request if its protocol server state is in the read/write state, as specified in section 3.1.1 Changed to: The server MUST accept a CLUSCTL_CLUSTER_CLEAR_UPGRADE_IN_PROGRESS cluster control code request if its protocol server state is in the read/write state, as specified in section 3.1.1

*Date format: YYYY/MM/DD