Opensds state machine design

Volume statuses

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| --- | --- |
| Status | Description |
| creating | The volume is being created. |
| available | The volume is ready to attach to an instance. |
| attaching | The volume is attaching to an instance. |
| detaching | The volume is detaching from an instance. |
| in-use | The volume is attached to an instance. |
| deleting | The volume is being deleted. |
| error | A volume creation error occurred. |
| error\_deleting | A volume deletion error occurred. |
| error\_extending | An error occurred while attempting to extend a volume. |
| extending | The volume is being extended. |

Snapshot statuses

|  |  |
| --- | --- |
| Status | Description |
| creating | The snapshot is being created. |
| available | the snapshot is ready to use. |
| deleting | The snapshot is being deleted |
| error | A snapshot creation error occurred. |
| deleted | The snapshot has been deleted |
| error\_deleting | A snapshot deletion error occurred. |

Attachment statuses

|  |  |
| --- | --- |
| Status | Description |
| attached | The volume has been attached to an instance. |
| attaching | The volume is attaching to an instance. |
| detached | The volume has been detached from an instance. |
| error\_attaching | An error occurred while the volume is attaching to an instance. |
| error\_detaching | An error occurred while the volume is detaching from an instance. |