**Deciding whether to replicate SVM network configuration**

Depending on the data and network configuration of the source SVM, you can choose to replicate all or a subset of the SVM configuration (excluding the network and protocol configuration) while setting up the destination SVM for disaster recovery.

**Choices**

* Replicate data and all of the SVM configuration in the following scenarios:
  + The source and destination clusters are in the same network subnet.
  + The destination SVM must have the same NAS configuration as the source SVM.
  + The source SVM is not configured for SAN data access.
  + The destination SVM is not required to provide read-only access.

The destination SVM uses the same IP addresses as the source SVM so that clients can access data by using the same IP addresses and network configuration when the source SVM is not available.

* Replicate data and all of the SVM configuration except the NAS data LIFs in the following scenarios:
  + The source and destination clusters are in different network subnets.
  + The destination SVM must have the same NAS configuration as the source SVM except for

the LIFs.

* + The source SVM is not configured for SAN data access.
  + The destination SVM is not required to provide read-only access.

You must create and configure LIFs on the destination SVM for data access when the source SVM is not available.

* Replicate data and a subset of the SVM configuration in the following scenarios:
  + The destination SVM must have a different NAS configuration from the source SVM.
  + The source SVM is configured only for SAN data access.
  + The destination SVM is required to provide read-only access.

**Note:** Network, protocol, and name services configurations are not replicated.

You can set up the destination SVM to provide read-only access for NFS clients and SAN hosts by configuring the network and protocols on the destination SVM.

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**Configurations replicated in an SVM disaster recovery relationship**

When you set up the SVM disaster recovery relationship, the value that you select for the - identity-preserve option of the snapmirror create command determines the configurations that are replicated in the destination SVM.

If you set the -identity-preserve option to **true**, all the configuration details except the SAN configuration are replicated. If the source cluster and destination cluster are in different network subnets, you can choose not to replicate the NAS LIFs on the destination SVM.

If you set the -identity-preserve option to **false**, only a subset of the configuration details— those that are not associated with the network configuration—is replicated.

The following table lists the configuration details that are replicated when the -identity- preserve option is set to **true** and when this option is set to **false**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Configuration** | | **Replicated if the** ‐**identity**‐**preserve option is set to true** | | **Replicated if the**  ‐**identity**‐**preser ve option is set to false** |
| **If a SnapMirror policy without the - discard-configs network option is used** | **If a SnapMirror policy with the - discard- configs network option is used** |
| CIFS | CIFS server | Yes | Yes | No |
| CIFS policy | Local groups and local user | Yes | Yes | Yes |
| Privilege | Yes | Yes | Yes |
| Shadow copy | Yes | Yes | Yes |
| BranchCache | Yes | Yes | Yes |
| Server options | Yes | Yes | Yes |
| Server security | Yes | Yes | No |
| Home directory, share | Yes | Yes | Yes |
| Symlink | Yes | Yes | Yes |
| Fpolicy policy, Fsecurity policy, and Fsecurity NTFS | Yes | Yes | Yes |
| Name mapping and group mapping | Yes | Yes | Yes |
| Audit information | Yes | Yes | Yes |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Configuration** | | **Replicated if the** ‐**identity**‐**preserve option is set to true** | | **Replicated if the**  ‐**identity**‐**preser ve option is set to false** |
| **If a SnapMirror policy without the - discard-configs network option is used** | **If a SnapMirror policy with the - discard- configs network option is used** |
| NFS | Export policies | Yes | Yes | No |
| Export policy rules | Yes | Yes | No |
| NFS server | Yes | Yes | No |
| Network | NAS LIFs | Yes | No | No |
| LIF Kerberos configuration | Yes | No | No |
| SAN LIFs | No | No | No |
| Firewall policies | Yes | Yes | No |
| Routes | Yes | No | No |
| Broadcast domain | No | No | No |
| Subnet | No | No | No |
| IPspace | No | No | No |
| RBAC | Security certificates | Yes | Yes | No |
| Login user, public key, role, and role configuration | Yes | Yes | Yes |
| SSL | Yes | Yes | No |
| Name services | DNS and DNS hosts | Yes | Yes | No |
| UNIX user and UNIX group | Yes | Yes | Yes |
| Kerberos realm and Kerberos keyblocks | Yes | Yes | No |
| LDAP and LDAP client | Yes | Yes | No |
| Netgroup | Yes | Yes | No |
| NIS | Yes | Yes | No |
| Web and web access | Yes | Yes | No |

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| --- | --- | --- | --- | --- |
| **Configuration** | | **Replicated if the** ‐**identity**‐**preserve option is set to true** | | **Replicated if the**  ‐**identity**‐**preser ve option is set to false** |
| **If a SnapMirror policy without the - discard-configs network option is used** | **If a SnapMirror policy with the - discard- configs network option is used** |
| Volume | Object | Yes | Yes | Yes |
| Snapshot copies, Snapshot policy, and autodelete policy | Yes | Yes | Yes |
| Efficiency policy | Yes | Yes | Yes |
| Quota policy and quota policy rule | Yes | Yes | Yes |
| Recovery queue | Yes | Yes | Yes |
| Root volume | Namespace | Yes | Yes | Yes |
| User data | No | No | No |
| Qtrees | No | No | No |
| Quotas | No | No | No |
| File-level QoS | No | No | No |
| Attributes: state of the root volume, space guarantee, size, autosize, and total number of files | No | No | No |
| Storage QoS | QoS policy group | Yes | Yes | Yes |
| Fibre Channel (FC) | | No | No | No |
| iSCSI | | No | No | No |
| LUNs | Object | Yes | Yes | Yes |
| igroups | No | No | No |
| portsets | No | No | No |
| SNMP | v3 users | Yes | Yes | No |

**Note:** Cluster-level objects such as aggregates are not replicated.