

Swift- Troubleshooting

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This page describes the troubleshooting scenarios for Swift service.

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Interpreting `_swift-validate-input-model.yml` Errors

When you execute the `_swift-validate-input-model.yml` playbook it can be hard to pick out the errors being reported. If so, you view the error messages as follows:

1. Log onto the first node in the system that is running the `swift-proxy-server` process.



Note: You must run the `_swift-validate-input-model.yml` playbook as mentioned in step 2 in [Deploy the Cloud](#) otherwise the files needed to run the `swiftlm-ring-supervisor` will not be in place on the node.

2. Execute the following command:

```
sudo swiftlm-ring-supervisor --make-delta --report
```

The command will report any errors or problems (see List of errors) with the input model. It also prints a summary of the ring create actions that are planned (i.e., that will occur) for the deploy phase of the process.

List of errors

The following example provides an error message, description, and the resolution.



Note: To resolve an error by changing the input, you **must** re-run the configuration processor as describe in [Run the Configuration Processor](#) and continue with the deploy.

1. **Example Message: Model Mismatch: Cannot find drive `/dev/sdt` on padawan-ccp-c1-m2 (192.168.245.3)**

Description	The disk model used for node padawan-ccp-c1-m2 has drive <code>/dev/sdt</code> listed in the devices list of a device-group where Swift is the consumer. However, the <code>dev/sdt</code> device does not exist on that node.
Resolution	<p>If a drive or controller is failed on a node, the operating system does not see the drive and hence the corresponding block device may not exist. Sometimes this is transitory and a reboot may resolve the problem. The problem may not be with <code>/dev/sdt</code>, but with another drive. For example, if <code>/dev/sds</code> is failed, when you boot the node, the drive that you expect to be called <code>/dev/sdt</code> is actually called <code>/dev/sds</code>.</p> <p>Alternatively, there may not be enough drives installed in the server. You can add drives. Another option is to remove <code>/dev/sdt</code> from the appropriate disk model. However, this removes the drive for all servers using the disk model .</p>

2. **Example Message: Model Mismatch: Cannot find drive `/dev/sdd2` on padawan-ccp-c1-m2 (192.168.245.3)**

Description	The disk model used for node padawan-ccp-c1-m2 has drive <code>/dev/sdt</code> listed in the devices list of a device-group where Swift is the consumer. However,
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	the partition number (2) has been specified in the model. This is not supported – only specify the block device name (for example /dev/sdd), not partition names in disk models.
Resolution	Remove the partition number from the disk model.

3. **Example Message:** Cannot find IP address of padawan-ccp-c1-m3-swift for ring: account host: padawan-ccp-c1-m3-mgmt

Description	The service (in this example, swift-account) is running on the node padawan-ccp-c1-m3 . However, this node does not have a connection to the network designated for the swift-account service (i.e., the SWIFT network).
Resolution	Check the input model for which networks are configured for each node type.

4. **Example Message:** Ring: object-2 has specified replication-policy erasure-coding-policy. Only may be specified.

Description	Only one of replication-policy or erasure-coding-policy may be used in a ring-specification.
Resolution	Remove one of the policy type.

5. **Example Message:** Ring: object-3 is missing a policy type (replication-policy erasure-coding-policy)

Description	There is no replication-policy or erasure-coding-policy section in the ring-specifications for the object-0 ring.
Resolution	Add a policy type to the input model file.

Deploy fails with : msdos disks labels do not support partition names



Note: This process only applies to Swift drives. It does not apply to the operating system or boot drive.

Description	If a disk drive allocated to Swift uses the MBR partition table type, the deploy process refuses to label and format the drive. This is to prevent potential data loss as explained in Requirements for a Disk Drive . If you intend to use the disk drive for Swift, you must convert the MBR partition table to GPT on the drive using /sbin/sfdisk.
Resolution	<p>You must install <code>sfdisk</code>, before using it.</p> <p>Perform the following steps to install <code>sfdisk</code></p> <ol style="list-style-type: none"> 1. Execute the following command <pre>sudo apt-get install sfdisk</pre> 2. Convert to GPT partition type. This is an example for converting GTP partition type. <pre>sudo sfdisk -g /dev/sdd</pre>

3. Reboot the node to take effect. You may then resume the deploy (repeat the playbook that reported the error).