Policy-Driven Data Model

Policy-Driven Data model

ESC supports a new policy-driven datamodel. A new <policy> section is introduced under <policies> at both deployment and VM group level.

Using the Policy Data model, a user can perform actions based on conditions. ESC supports predefined actions, or customized scripts during a deployment based on certain Lifecycle Stage (LCS). For example, the redeployment policy uses predefined actions based on lifecycle stages (LCS) to redeploy VMs. For more information, see Redeployment Policy.

Policy Data model

The policy data model consists of conditions and actions. The condition is a Lifecycle Stage (LCS) in a deployment. The action is predefined or custom script.

- Predefined action—The action is predefined and executed when the condition is met.

  In the datamodel below, when condition2 is met, Action2 is performed. The action <type> is predefined.

- Custom Script—The action is a custom script, and executed when the condition is met.

  In the datamodel below, when condition1 is met, Action1-1 and Action 1-2 are executed. The action <type> is script.

```
<policies>
    <policy>
        <name>Name1</name>
        <conditions>
            <condition>
                <name>Condition1</name>
            </condition>
        </conditions>
        <actions>
            <action>
                <name>Action1-1</name>
                <type>SCRIPT</type>
            </action>
            <action>
                <name>Action1-2</name>
                <type>SCRIPT</type>
            </action>
```

```
                </actions>
            </policy>
            <policy>
                <name>Name2</name>
                <conditions>
                    <condition>
                        <name>Condition2</name>
                    </condition>
                </conditions>
                <actions>
                    <action>
                        <name>Action2</name>
                        <type>PRE-DEFINED</type>
                    </action>
                </actions>
            </policy>
        </policies>
```

For more information on Predefined actions, and scripts, see Recovery and Redeployment Policies.

The table below shows the LCS in a deployment, and its description. The recovery and redeployment policies, and VNF software upgrade policies use the policy-driven data model. These policies are supported on both single deployment and multi VIM deployment. For more information, see "Deploying Virtual Network Functions". For details on configuring the recovery and redeployment policies using the policy framework, see Recovery and Redeployment Policies. For details on upgrading the VNF software upgrade policies, see Upgrading VNF Software with Volume.