# SDA 4 and 5 Rollback Testing

The following scenario assumes that an application and its associated component has already been defined, and has been used for deployments.

The following four steps will give an overview of how an existing application can be configured.

## Step 1: Ensure that the Inventory Management is set to Advanced

In order to use rollback steps in an application process, the inventory management needs to be changed from the default of **Automatic** to **Advanced.**



Otherwise the following error message may appear when request a process application



## Step 2: Define two processes for the component

Two processes should be defined one that performs the deployment and a diagnostic test and one that simply deploys the artefacts.



This is the Comp4p1 process which contains the download and diagnostic step

rbRun

Here is the **Check Directory if Directory exists** step, which simply checks for the presence of a directory



This is the Comp4p1 – deploy only process which contains just the download step



## Step 3: Define the Application Process Logic

Go to **Applications*>***[**Example Application**](http://localhost:8080/serena_ra/#application/fe7506e4-44fe-49a5-9ea4-b694c8a515ab)***>*Process: App Process Logic**

The Application Process contains the following logic



Note: The Inventory Add Versions step ensures that the version is added to the request inventory should the component install correctly.

The **rund2** step calls the **Comp4p1** component process



The **rbd4** step calls the **Comp4p1 – deploy only** component process.

The **Rollback Type** must set to **Replace with Last Deployed**.



Note: In order to remove files that were created in the version to be rolled back, the **comp4p1 – deploy only** process **Sync Mode** needs to be changed to **Sync and Clean**, as shown below



## Step 4: Test the rollback and success scenarios

The component contains two versions V1 and V2

### Rollback Test

1. Ensure directory exists for second diagnostic step
2. Request V1
3. V1 is deployed and second diagnostic step is successful
4. Remove directory for second diagnostic step
5. Request V2
6. V2 is deployed and second step FAILS
7. Rollback step is executed
8. V1 is deployed

### Rollback not required test

1. Ensure directory exists for second diagnostic step
2. Request V1
3. V1 is deployed and second diagnostic step is successful
4. Remove directory for second diagnostic step
5. Request V2
6. V2 is deployed and second step is successful