



Serena Deployment Automation Pipeline Tutorial (SDA 6.x)

1.0

12 Jan 2016

Table of Contents

Introduction	3
Pre-requisite steps	3
Step 1: Create a Pipeline:	4
Step 2: Add pipeline to an existing application	5
Step 3: Test the Pipeline in a process	6
Step 4: Review the pipeline deployment history	6

Introduction

A pipeline is a sequence of environments. An application process request is propagated through the pipeline. In this tutorial example the following pre-requisites have been fulfilled:

- Three environments have been created
- An application and associated component has been created
- The component has been mapped to the three environments


Pre-requisite steps

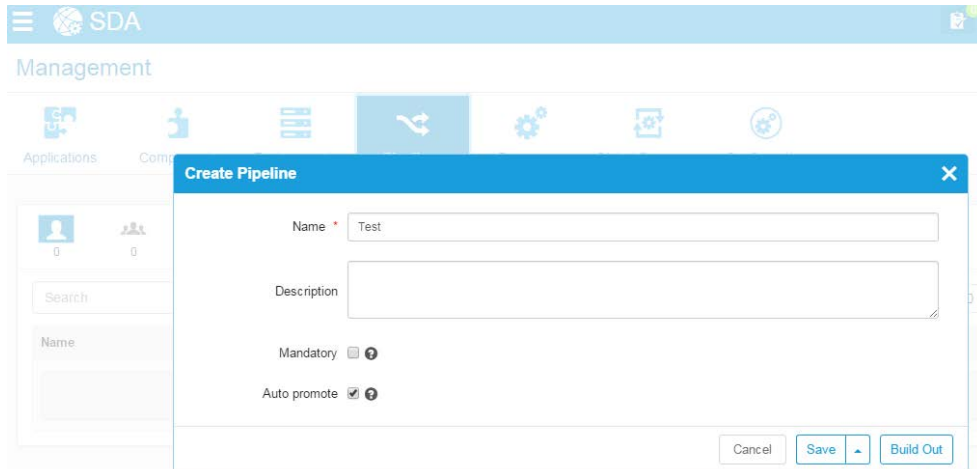
Ensure that application exists that deploys successfully and has at least two environments assigned to it.

This could be achieved by performing the following steps

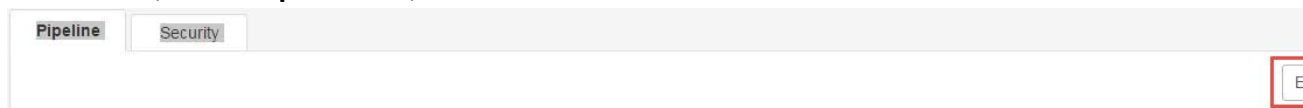
1. Refer to the SDA Getting Started Tutorial to create the Example Application
<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S141475>
2. Create two additional environments **qa** and **prod** and assign them to the Example Application

Step 1: Create a Pipeline:

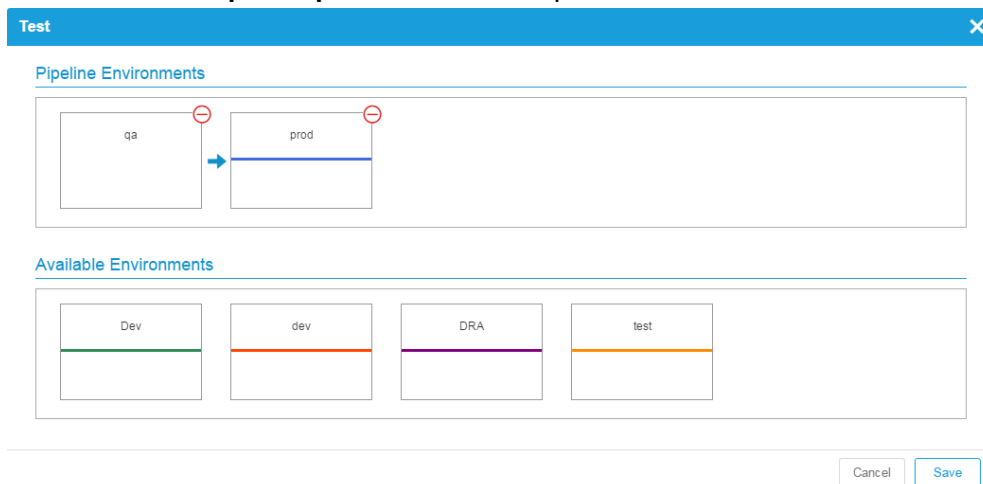
1. Go to **Management | Pipelines** click on the **Pipeline Actions** button  select **Create Pipeline**
2. Enter a Name for the Pipeline e.g. *Test*
3. Enable the option **Auto promote** (this will automatically execute the process request from your choose environments in the pipeline to the next environment in sequence)



- a.
4. Click on **Build Out**
 5. On the new screen, in the **Pipeline** tab, click the **Edit** button



- a.
6. Drag the environments **qa** and **prod** into to the Pipeline Environments area:



- a.
7. Click **Save**

Step 2: Add pipeline to an existing application

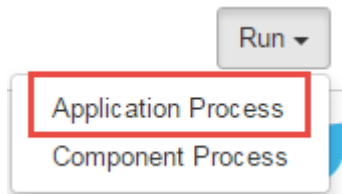
1. Navigate to **Management | Applications**, open your chosen Application e.g. *Example Application*
2. In the toolbar click **Details** and then click the **Edit** button
3. Change Pipeline to your Pipeline name earlier created *Test*

The screenshot shows the 'Edit Application' dialog box. The 'Pipeline' dropdown menu is highlighted with a red box and contains the value 'Test'. Other fields include 'Name' (Example Application), 'Description', 'Notification Scheme' (none), and a checkbox for 'Enforce Complete Snapshots'. A diagram at the bottom shows a flow from 'qa' to 'prod'.

4. Click **Save**

Step 3: Test the Pipeline in a process

1. Click on the **Run** button then click **Application Process**.



2. Select one of the environments in the pipeline (e.g. **qa**) and click **Next**

Note: Each environment in the pipeline will be indicated

Find Environment		1 / 1
Name	Pipeline	
qa	Test	
prod	Test	
dev		

3. Select the component process (e.g.) and click **Next**
4. Unselect Only Changed Versions and specify a version to deploy and click **Submit**
5. Notice that after the first environment deployment has completed the screen refreshes and the deployment for the second environment is initiated.

Step 4: Review the pipeline deployment history

1. Click on the link that contains the name of the Application
2. Click on the **History** icon from the toolbar and notice that the last two deployments happened within seconds of each other. E.g.

Deployment History ▾

☒ 23

☒ 1

Search

10 ▾ per page 1 / 3

Process	Environment	Snapshot	Scheduled ▾	By	Status	
ExApp Process	prod		01/08/2016 08:55 AM	admin	<input checked="" type="checkbox"/> Success	<input type="button" value="👁"/>
ExApp Process	qa		01/08/2016 08:54 AM	admin	<input checked="" type="checkbox"/> Success	<input type="button" value="👁"/>