

SDA: Pipeline Tutorial

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:

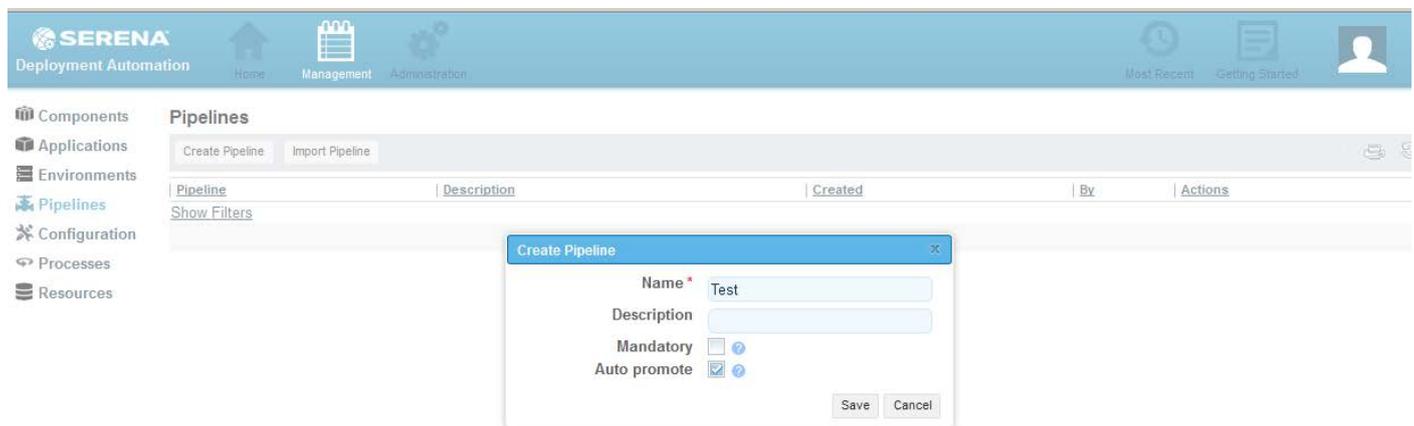
- Three environments have been created
- An application and associated component has been created
- The component has been mapped to the three environments

For further information on how to perform the pre-requisite steps, please refer to the SDA Getting Started Tutorial available from the KB:

<http://knowledgebase.serena.com/InfoCenter/index?page=content&id=S141475>

Step 1: Create a Pipeline:

1. Navigate to Pipelines > and click on the button **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)



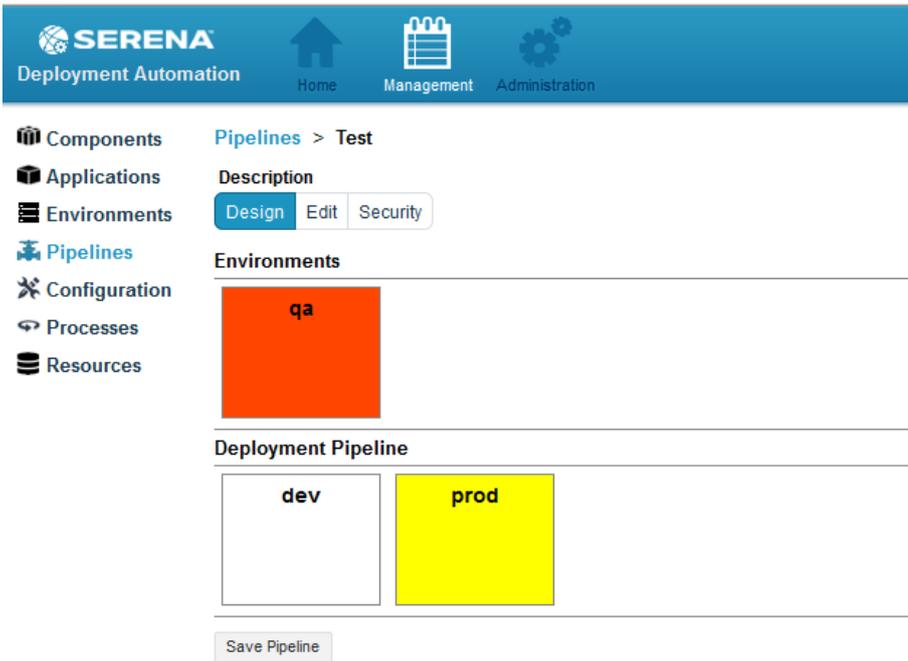
The screenshot displays the SERENA Deployment Automation web interface. The top navigation bar includes 'SERENA Deployment Automation', 'Home', 'Management', and 'Administration'. On the right, there are 'Most Recent' and 'Getting Started' links, and a user profile icon. The left sidebar contains a navigation menu with 'Components', 'Applications', 'Environments', 'Pipelines', 'Configuration', 'Processes', and 'Resources'. The main content area is titled 'Pipelines' and features 'Create Pipeline' and 'Import Pipeline' buttons. Below these buttons is a table with columns for 'Pipeline', 'Description', 'Created', 'By', and 'Actions'. A 'Show Filters' link is also present. A 'Create Pipeline' dialog box is open in the foreground, containing the following fields and options:

- Name ***: Text input field containing 'Test'
- Description**: Text input field (empty)
- Mandatory**: Checkbox (unchecked)
- Auto promote**: Checkbox (checked)

At the bottom of the dialog box are 'Save' and 'Cancel' buttons.

4. Click on **Save**

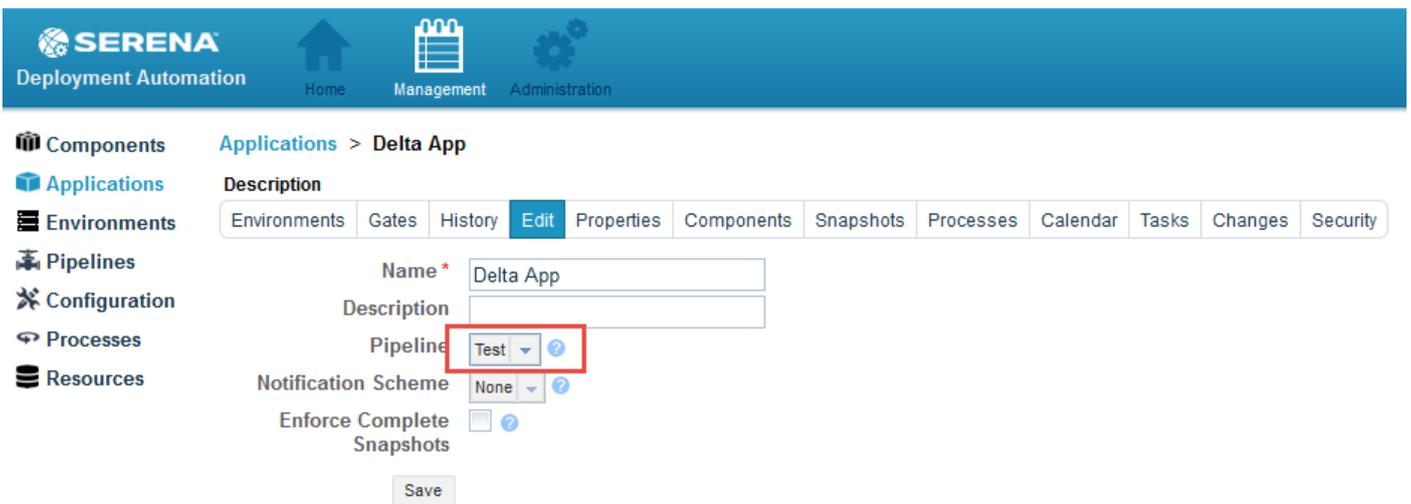
5. Drag the environments in the sequence of the deployment propagation to the Deployment Pipeline area:



6. Click on **Save Pipeline**

Step 2: Add pipeline to an existing application

1. Navigate to **Applications**, open your chosen Application *Test*
2. Click on **Edit**
3. Change Pipeline to your Pipeline name earlier created *Test*



4. Click on **Save**

Step 3: Test the Pipeline in a process

1. Navigate to Application> and click on the application, notice the pipeline encompasses the selected environments

Applications > Delta App

Description

Environments Gates History Edit Properties Components Snapshots Processes Calendar Tasks Changes Security

Environments

Drag environments by their label boxes to order them.

▼ Pipeline: **Test**

qa

Actions

Request Process

Compare Copy

Inactivate

Latest Desired Inventory

Component	Version	Snapshot	Properties	Status	Compliance	Actions
No components have been installed to this environment.						

prod

Actions

Request Process

Compare Copy

Inactivate

Latest Desired Inventory

Component	Version	Snapshot	Properties	Status	Compliance	Actions
t1_comp	v3		Version 1	Active	Compliant (1/1)	View Request

10 per page 1 record (total) << 1 / 1 >>

dev

Actions

Request Process

Compare Copy

Inactivate

Latest Desired Inventory

Component	Version	Snapshot	Properties	Status	Compliance	Actions
t1_comp	v3		Version 1	Active	Compliant (1/1)	View Request
d1	v5		Version 1	Active	Compliant (1/1)	View Request

10 per page 2 records (total) << 1 / 1 >>

2. Press Request Process on the first environment in the Test pipeline sequence (in the above example this would be qa)
3. The Application Process will now execute in your first environment, if successful it will move automatically to the next environment in the pipeline and request the Application Process. E.g. the screenshot below show the inventories for both qa and prod as being at version v3.

Environments

Drag environments by their label boxes to order them.

▼ Pipeline: **Test**

qa

Actions

Request Process

Compare Copy

Inactivate

Latest Desired Inventory

Component	Version	Snapshot	Properties	Status	Compliance	Actions
t1_comp	v3		Version 1	Active	Compliant (1/1)	View Request

10 per page 1 record (total) << 1 / 1 >>

prod

Actions

Request Process

Compare Copy

Inactivate

Latest Desired Inventory

Component	Version	Snapshot	Properties	Status	Compliance	Actions
t1_comp	v3		Version 1	Active	Compliant (1/1)	View Request

10 per page 1 record (total) << 1 / 1 >>