

Deployment Policy Extra Exercise - Summary

The intention of this exercise is to give students the opportunity of working with DataPower Deployment Policy objects.

These are used in conjunction with exported configurations, when being imported into another domain / appliance. Deployment Policy objects provide the capability of changing settings of services and related objects being imported, e.g. ip addresses, ports, MQ manager names, SLM settings, etc.

Sequence

- Export the source domain (e.g. containing development environment services) into a ZIP file.
- Create the Deployment Policy objects and export these into a separate ZIP file containing only these objects.
- Import the Deployment Policy objects into the target domain.
- Import the services ZIP file, but applying the Deployment Policy objects to change service setting on import.
- Remove Deployment Policy objects from the target domain?

This exercise presumes:

- you have already exported from the source domain the single MPGW *HelloWorld* to a file HelloWorldMPGW.zip
- you have created an appropriately named target domain (c.f. a "production" domain)

Sample Screens

Create the Deployment Policy:

Configure Deployment Policy

Main

Modified Configuration

Deployment Policy

Apply

Cancel

Name

HelloWorld-ProdSettings

*

Modified Configuration

Configuration Match	Modification Type	Configuration Property	Configuration Value
(empty)			
<div>Add</div>			

Add an entry to the Modified Configuration list and use *Change Configuration*:

Edit Modified Configuration

Not Secure | https://localhost:9090/webguiapp/ComplexProperty/dmConfigModifyType?callback!...

DataPower Gateway IBM

Edit Modified Configuration

[Help](#)

Configuration Match **Build** *

Modification Type **Change Configuration** *

Configuration Value *

Apply **Cancel**

Click *Build* to use the Build tool and supply the *Configuration Match* information:

Editing Policy

Not Secure | https://localhost:9090/support.xml?action=uriBuilder&class=ConfigDe...

Editing Configuration Match property of Deployment Policy

[Help](#)

Device Address	* Select Alias
Application Domain	(none)
Resource Type	HTTP Handler *
Name Match (PCRE)	HelloWorld_HTTP_FSH
Configuration Property	Port
Configuration Value Match (PCRE)	

Save **Cancel**

Save the *Configuration Match* window to return to the prior page and enter in the new value to be used on an import.

Note:

- *Modification Type* is *Change Configuration*
- New value placed below in *Configuration Value*

Edit Modified Configuration

Configuration Match: Build *

Modification Type: *

Configuration Value: *

Apply the settings to add an entry to the list:

Configure Deployment Policy

Modified Configuration

Deployment Policy

[Help](#)

Name: *

Configuration Match	Modification Type	Configuration Property	Configuration Value	
//protocol/http?Name=HelloWorld_HTTP_FSH&Property=LocalPort	Change Configuration		12997	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

Apply to save the Deployment Policy object.

Export the Deployment Policy object (there's a link to do this on that object's page):

Exporting HelloWorld-ProdSettings


Action completed successfully!

You have successfully exported Deployment Policy HelloWorld-ProdSettings.

Note the location on your workstation of the ZIP of the Deployment Policy object.

Now switch to the target domain.

Import the Deployment Policy object into the target domain:

 **Import Configuration**

Select options for Import

From

☐ XML
☒ ZIP

File

Choose File

HelloWorld-ProdSettings.zip *

Use Deployment Policy

(none) ▾

+

...

Use Deployment Policy Variables

(none) ▾

+

...


Rewrite Local Service Addresses

☒ on ☐ off

Next

Cancel

On import completion, you will see the object you have imported (a Deployment Policy object):

 **Import Configuration**

[Help](#)

Details of Configuration to Import

Domain Name:

WE75X-DeploymentPolicy

Comment:

User Name:

admin

Device Name:

docker-macair-sse-dev

Firmware Version:

IDG.7.7.1.3

Export Timestamp:

2019-03-25 16:21:54 UTC

The following configuration is new:

Select:[All](#) | [None](#)

☒ Deployment Policy:HelloWorld-ProdSettings

Back

Import

Cancel

Now that the Deployment Policy object has been imported, it can be used on the import of the services export ZIP file:

Import Configuration

Select options for Import

From ☐ XML ☒ ZIP

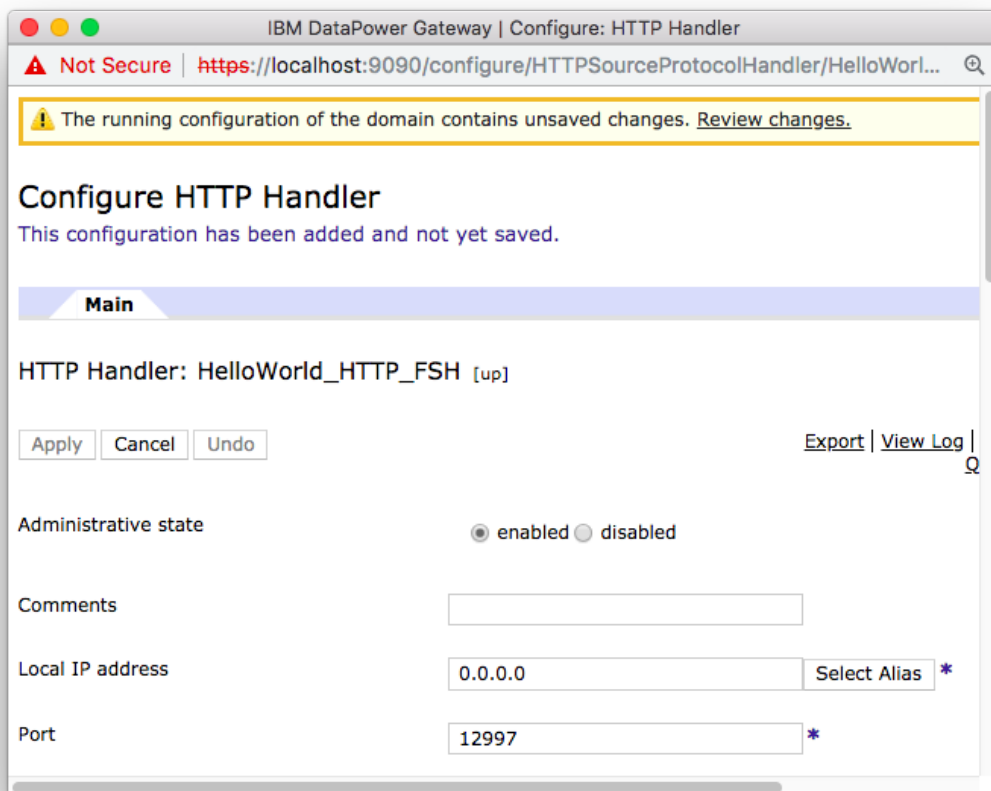
File HelloWorldMPGW.zip *

Use Deployment Policy HelloWorld-ProdSettings ▾ + ...

Use Deployment Policy Variables (none) ▾ + ...

Rewrite Local Service Addresses ☒ on ☐ off

Inspecting the HTTP handler of the imported service into the target domain, you should see that the port number has been changed to what was defined in the Deployment Policy object:



IBM DataPower Gateway | Configure: HTTP Handler

Not Secure | <https://localhost:9090/configure/HTTPSourceProtocolHandler/HelloWorl...>


The running configuration of the domain contains unsaved changes. [Review changes.](#)

Configure HTTP Handler

This configuration has been added and not yet saved.

Main

HTTP Handler: HelloWorld_HTTP_FSH [up]

[Export](#) | [View Log](#) | 

Administrative state ☒ enabled ☐ disabled

Comments

Local IP address *

Port *

Coming From WE761 Course

If you starting this attending the WE761 Admin course, then here are some possible tips

- download HelloWorldMPGW.zip in GTT Materials
- try this exercise in your own Docker-based DataPower
- this is preparation for Extra Exercise "Using Deployment Policy objects"
- before starting above exercise:
 - create domains "development" and "production"
 - import the HelloWorldMPGW.zip into "development" domain
 - change the HelloWorld_HTTP_FSH port to 12017 (from 7538)
 - test the configuration of the "development" domain with:
 - \$ curl http://localhost:12017/xsl
 - \$ curl http://localhost:12017/javascript
 - view the responses for each of the above
 - look at entries in the system log the code in the MPGW causes
 - now follow Extra Exercise "Using Deployment Policy objects"
- if using DataPower on Docker, ensure port 12997 available, if not, use Kitematic to add it ("Settings / Hostname / Ports")
- test the configuration in the "production" domain with:
 - \$ curl http://localhost:12997/xsl
 - \$ curl http://localhost:12997/javascript