WebSphere DataPower Release 7.0.0.0

SFTP support for XG45

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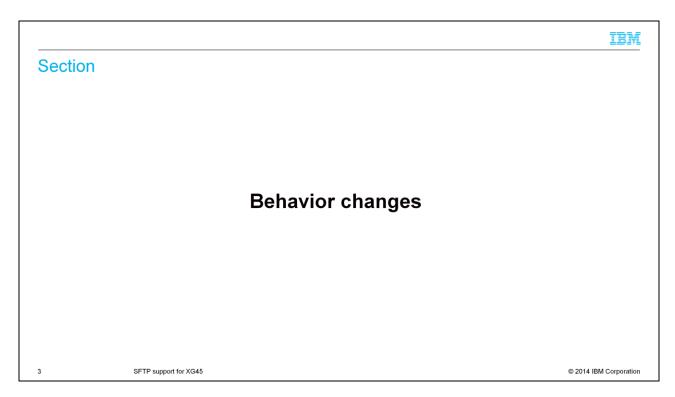
WebSphere DataPower Release 7.0.0.0 - SFTP support for XG45

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This presentation will cover the addition of SFTP to the XG45 platform in the WebSphere® DataPower® 7.0.0.0 firmware release as well as what parts of the DataPower user experience this affects.

Section

Behavior changes

SFTP support for XG45 © 2014 IBM Corporation

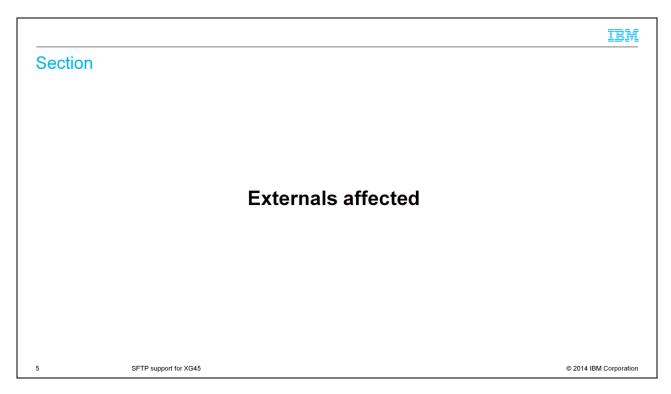First we will look at what these behavior changes are for the XG45 platform.

Behavior changes

- Previous behavior
  - SFTP features were limited to the XI50 and XB60 platforms consequently, those features were unavailable on the XS40, XG45, and XM70.

- New behavior
  - SFTP features are now available and supported on the XG45 platform.

- Why it is important
  - SFTP support on XG45 was a customer requested feature and since, as of 7.0.0, we are no longer building for platforms other than XI, XG, and XB, this means that config objects using SFTP are now portable between all available firmware platforms.

Prior to firmware version 7.0.0.0, SFTP features were restricted to the XI50 and XB60 platforms and were therefore unavailable on the XS40, XG45, and XM70.

As of 7.0.0.0, SFTP features have been enabled on the XG45 platform. Additionally, as 7.0 firmware is only applicable to the XI, XG, and XB platforms, there are no longer any platforms which will not support SFTP.

Section

Externals affected

Next we will examine what externals were affected by this change.

Externals affected

- SFTP policies are now available in HTTP user agents
- SFTP profile usage in SSH client profiles and related config objects:
  - User Authentication (public key and password)
  - User password
  - Persistent connections
  - Persistent connection idle timeout
  - Strict host key checking
- SFTP file poller front side handler and status provider
- SFTP server front side handler and status provider
- SFTP URL opener
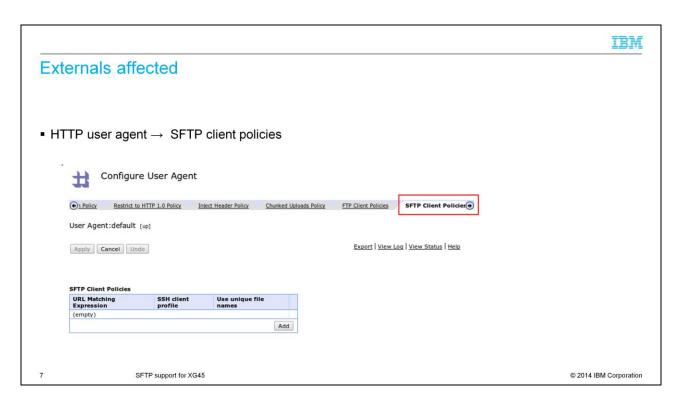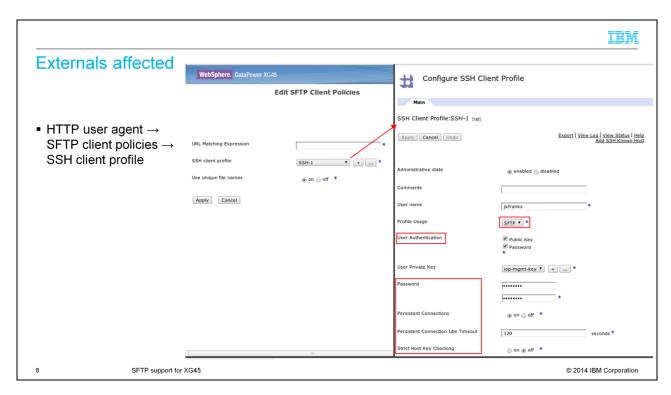
The objects enabled by this change were:

 - SFTP Policies for use in HTTP User Agents

 - SFTP Profile usage in SSH Client Policies

     -This includes all SSH Client Policy objects related specifically to SFTP profile usage. These objects are: User Authentication, User Password, Persistent Connections, Persistent Connection Idle Timeout, and Strict HostKey Checking.
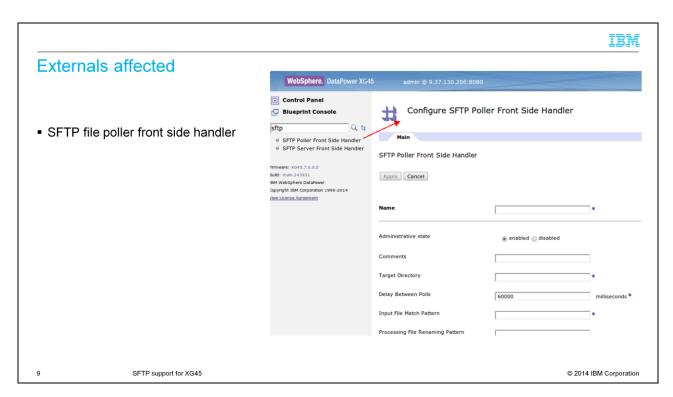
 - SFTP File Poller Front Side Handlers and corresponding status provider

 - SFTP Server Front Side Handlers and corresponding status provider
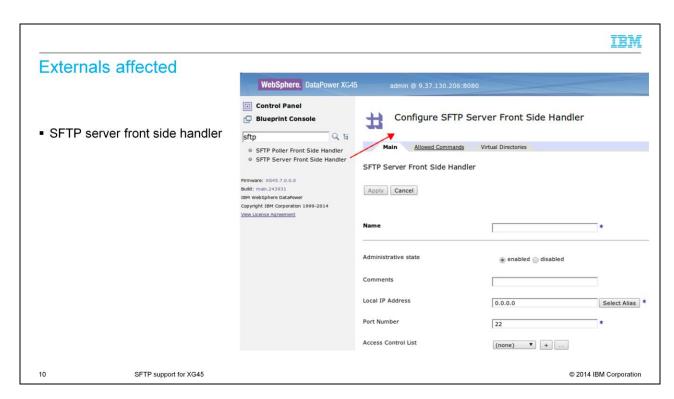
 - SFTP URL Opener

Here we have a view from the WebGUI showing the availability of SFTP Client Policies under the HTTP User Agent Object

Externals affected

WebSphere. DataPower XG45

Edit SFTP Client Policies

⊞ Configure SSH Client Profile

Main

SSH Client Profile:SSH-1 [up]

- HTTP user agent →
  SFTP client policies →
  SSH client profile

URL Matching Expression [   ] *

Apply Cancel Undo

Export | View Log | View Status | Help
Add SSH Known Host

SSH client profile [SSH-1 ▾] [+] [...] *

Administrative state   ⦿ enabled ○ disabled

Use unique file names   ⦿ on ○ off *

Comments [   ]

Apply   Cancel

User name [jkfranks] *

Profile Usage [SFTP ▾] *

User Authentication   ☑ Public Key
                               ☑ Password
                               *

User Private Key [iop-mgmt-key ▾] [+] [...] *

Password [••••••••]
         [••••••••] *

Persistent Connections   ⦿ on ○ off *

Persistent Connection Idle Timeout [120] seconds *

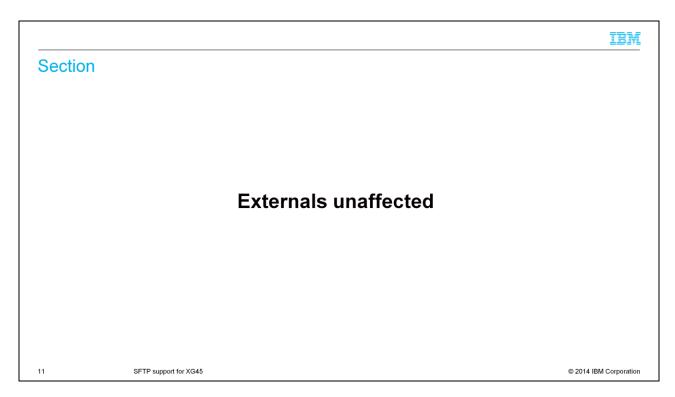Strict Host Key Checking   ○ on ⦿ off *

Next we have a view from the WebGUI showing the availability of the SSH Client Profile object

Here we have an image showing the SFTP File Poller Front Side Handler object from the WebGUI

And finally, this is an image of the SFTP Server Front Side Handler object from the WebGUI.

Section

Externals unaffected

SFTP support for XG45

Now we will cover the externals that were not affected by these changes.

Externals unaffected

- SFTP as a copy target was previously available and has not been affected
- SFTP as a log target was previously available with the exception of an issue introduced in 6.0.0.0 that was fixed in 6.0.0.5 and 6.0.1.1 (See APAR IC98456)

Prior to these changes (DP 7.0), SFTP could be used as a copy target on the XG45. This was intended behavior and has remained the same.

An SFTP Log Target was also previously available. This was intended behavior and has remained the same. There was, however, an issue introduced in DP version 6.0.0.0 which caused SFTP log target uploads to consistently fail. This was fixed in version 6.0.0.5 and 6.0.1.1 for more information, see APAR IC98456.

Externals unaffected

- SFTP as a copy target

```
xg45(config)# copy sftp://wdwhitt@9.42.102.115//home/wdwhitt/dpinfo.xml temporary://dpinfo.xml
Password: ********
File copy success
xg45(config)#
```

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This is an image of SFTP being used as a copy target from the CLI.

This is an image from the WebGUI of SFTP being used as a Log Target.

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