## Visual Step By Step Instructions for Upgrading a single instance BigFix Windows Server

This example shows upgrade steps from BigFix 9.2.5.130 to 9.5.0.311. These steps also apply for any other older version to newer version upgrade (with minor visual differences).

- Ensure you have a local master console operator account to which you can login to the console with.
- Ensure you can login to the BigFix server machine with an admin account that has both local and domain admin rights. The user should also have DBO rights in accessing the database.
- Ensure databases are backed up. The BigFix platform uses two databases: bfenteprise and BESReporting. If the database is on a remote machine and you are having trouble determining which database machine the BigFix application server is connecting to you can open the ODBC application at: C:\Windows\SysWOW64\odbcad32.exe

🗃 ODBC Data Source Admi	nistrator	×			
User DSN System DSN Fi	le DSN   Drivers   Tracing   Connectio	n Pooling About			
System Data Sources:					
Name	Driver	Add			
bes_bfenterprise enterprise_setup LocalBESReportingServer	SQL Server Native Client 11.0 SQL Server Native Client 11.0 SQL Server Native Client 11.0	Remove Configure			
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.					

On the System DSN tab click Configure the bes\_bfenterprise DSN and the name of the server will be in the Server field:

<b>B</b>	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.
Monor	What name do you want to use to refer to the data source?
SQL Server 2012	Name: bes_bfenterprise
	How do you want to describe the data source?
	Description:
	Which SQL Server do you want to connect to?
	Server: REMUS

- If the database is on a remote machine, most likely the user that the BES services which require database access (BES Root Server, BES FillDB, BES GatherDB, BES Server Plugin Service, and BES Web Reports Server) are logging in as should be the user you should login to the server as to perform the upgrade (the user should have local and domain admin rights as well as DBO rights in the database. Otherwise if the database is local on the BigFix server machine the services would login as the Local SYSTEM user.
- Ensure your license.crt and license.pvk are backed up.
- Ensure you know the password on the license.pvk file. You can verify you know the password on it by logging into the BESAdmin tool on the BigFix server, pointing to the license.pvk file, and entering your password against it. If the password is correct, the BESAdmin interface will open.

	ning Key (licen	se.pvk)
	4 Support Con	Imon LLM License Files (license, pwk Browse
Chan	ge Password	OK Cancel
	Site Admin	Private Key Password
	Site Admin	Private Key Password
	•••••	••••
		OK Cancel
(BM Endpo	oint Manager A	dministration Tool
Aasthead M	lanagement Sys	stem Options Advanced Options Replication Encryption Security
Edi	t Masthead	Click here to change your Action Site Masthead parameters.
Expo	ort Masthead	Click here to save the Action Site Masthead in your database to disk.
Requ	est Masthead	Click here to request a new Action Site Masthead from IBM.
	ate Masthead	Click here to activate a new Action Site Masthead using a site certificate which you have received from IRM.

• Ensure your current deployment is generally functional. A quick test by taking a deployment wide blank actionsite action via a master console operator should confirm basic functionality (<u>http://www-01.ibm.com/support/docview.wss?uid=swg21506100</u>)

• Backup you BES Installers folder at \Program Files (x86)\BigFix Enteprise\

BigFix Enterprise					
Organize 👻 Include in	n library 👻 Share with 👻 New folder				
👉 Eavorites	Name 🔶	Date modified	Туре		
Nesktop	🕌 BES Client	3/30/2016 9:38 AM	File folder		
鷆 Downloads	퉬 BES Console	11/12/2015 11:55 AM	File folder		
归 Recent Places	퉬 BES Installers	7/28/2015 1:13 PM	File folder		
🦰 Libraries	🔑 BES Server	3/30/2016 9:39 AM	File folder		
Documents	🔑 BES Server API	2/11/2015 10:17 AM	File folder		
🍶 Music					
실 BES	Client	3/30/2016 9:38 AM			
🌗 BES Console		11/12/2015 11:55 AM			
鷆 BES Installers		7/28/2015 1:13 PM			
📙 BES Installers - Backup		3/30/2016 9:40 AM			
鷆 BES	Server	3/30/2016 9:41 AM			
🔒 BES	Server API	2/11/2015 10:17 AM			

- Take action on Task # 2412 "Updated Windows Installation Folders IBM BigFix version 9.5.0 Now Available!" and target the main BigFix server machine. This will update the BES Installers folders on the server with the current version of the installation binaries.
- If for some reason you cannot update the BES Installers folder, you can download the installation binaries from this site: <u>http://support.bigfix.com/bes/release/</u>
- You can verify the installers have been updated by checking the binary's version:

General	Compatibility	Digital Signatures	
Security		Flevious versions	
Property	Value		
Description			
File description	Setup Launcher Unicode		
Туре	Application		
File version	9.5.0.311		
Product name	IBM BigFix Server		
Product version	9.5.0.311		
Copyright	Copyright (c) 2015 Flexera Software LLC		
Size	194 MB		
Date modified	3/25/2016 10:27 AM		
Language	English (United States)		
Original filename	InstallShield Setup.exe		
emove Properties	s and Personal Information		
emove Properties	s and Personal Information		

• Right click on the Server's setup.exe and select Run as administrator





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IBM BigFix Server - InstallShield Wizard				
٢	IBM BigFix Server Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.			
Preparir	ng to Install			
	Cancel			

If the installer detects that a reboot is needed, it is advisable that you click "No" to exit the installer and then restart the server machine.







IBM BigFix Server - InstallShield Wizard	×
Select Features Select the features setup will install.	
Select the features you want to install, and deselvent of the features you want to install, and deselvent of the features of t	ect the features you do not want to install.  Description All components for the IBM BigFix Server
141.43 MB of space required on the C drive 184333.54 MB of space available on the C drive InstallShield	
_	< Back Next > Cancel

IBM BigFix Server - InstallShield Wizard	<b>د</b>
Information Please read the following text.	
Please review the installation parameters t	below.
The IBM BigFix Server installer will perform - Install the Server's program files - Install the Server service and other wet - Read in configuration settings from the - Prompt you to change the SQL Server d - Prompt you to create user logins for the - Prompt you to run the IBM BigFix Diagno	m the following operations:  b server files Action Masthead default 'sa' password (if applicable) e IBM BigFix Console (if running advanced insta tostics Tool to verify the installation
InstallShield	< Back Next > Cancel

IBM BigFix Server - InstallShield Wizard	×
Setup Status	
IBM BigFix Server is configuring your new software installation.	
C:\Program Files (x86)\BigFix Enterprise\BES Server\ActionSite.afxm	
InstallShield	
	Cancel

Next, the database is upgraded. This could take quite a while depending on the size and the amount of data in the database.

3M BigFix	
Upgrading Database	
Stopping this process now will require manual intervention to restore the previous state.	
This may take several hours to complete.	
Set minimum database compatibility level	
<ul> <li>Force still running BES applications</li> <li>Ungrade database to version Enterprise 7.27</li> </ul>	
Upgrade database to version Enterprise 7.37	
Ungrade database to version Enterprise 7.38	
Ungrade database to version Enterprise 7.42	
Upgrade database to version Enterprise 7.46	
Ungrade database to version Enterprise 7.47	
Upgrade database to version Enterprise 7.49	
BM BigFix Vpgrade database to version Enterprise 8.10	
✓ Upgrade database to version Enterprise 8.11	
Upgrade database to version Enterprise 8.21	
Upgrade database to version Enterprise 8.22	
🗸 Set re-sign security data flag	
Vpdate all tables and stored procedures	
🗸 Set re-import external content flag	
🗸 Update data tables	
✓ Set database version	
Re-import external content	
Create re-indexing jobs	
🔾 Re-index all tables	
Reindexing all tables (this might take a long time)	

Be patient! As long as the BESAdmin.exe process is still running on the BigFix server, the upgrade is still in progress. (This could potentially take a very long time to finish):

ıĘ.	🖳 Windows Task Manager						
File	File Options View Help						
Ap	plications Processes Servio	ces Performance	Networking Use	rs			
	Image Name 🔺	PID	User Name	CPU	Memory (Private Working Set)		
	armsvc.exe *32	1112	SYSTEM	00	1,092 K		
	BESAdmin.exe	1164	Administrator	00	21,660 K		
	BESClient.exe *32	4532	SYSTEM	00	10,284 K		
	BESClientUI.exe *32	3356	Administrator	00	1,224 K		
	CCleaner64.exe	3656	Administrator	00	5,936 K		
	conhost.exe	1432	SYSTEM	00	1,400 K		
	conhost.exe	1836	LOCAL SERVICE	00	1,408 K		
	conhost.exe	2548	Administrator	00	1,448 K		

互 Site Admin Private Key		×
In order to run IBM BigFix Administration Tool, you need to signing key for the database you would like to administer.	specify the lo	cation of the site level
Site Signing Key (license.pvk)		Browse
Change Password	ОК	Cancel

Site Admin Private Key Password	×
Site Admin Private Key Password	
••••••	_
·	
OK Cancel	

Be patient!....

IBM BigFix Server - InstallShield Wizard			
IBM.	InstallShield Wizard Complete		
	Setup has finished installing IBM BigFix Server on your computer.		
	Run the IBM BigFix Diagnostic Tool.		
	Restart the IBM BigFix Client.		
	< Back Finish Cancel		

Next, upgrade the Console in the BigFix Server machine by running the console's setup.exe:

📙 👻 Computer 🔹 Local Disk (C:) 🔹 Program Files (x86) 🔹 BigFix Enterprise 🍷 BES Installers 🍷 Console						
🔂 Open	New folder					
es	Name 🔶		Date modified	Туре	Size	
:op	📄 masthead.af×	m	4/25/2014 11:17 AM	AFXM File	104 KB	
Noads nt Places s ments : res is :er Disk (C:) k	🖄 setup.exe	Open <sup>®</sup> Run as administrator Troubleshoot compatibility 7-Zip <sup>™</sup> Edit with Notepad++ Restore previous versions             Send to             Cut Copy             Create shortcut Delete Rename             Properties	3/25/2016 10:30 AM	Application	46,116 KB	

🖶 IBM BigFix Console - InstallShield Wizard 🛛 🔀				
IBM.	Welcome to the InstallShield Wizard for IBM BigFix Console			
	The InstallShield(R) Wizard will install IBM BigFix Console on your computer. To continue, click Next.			
	WARNING: This program is protected by copyright law and international treaties.			
	< Back Next > Cancel			

🛃 IBM BigFix Console - InstallShield Wizard 🛛 🛛 🔀				
IBM.	InstallShield Wizard Completed			
	The InstallShield Wizard has successfully installed IBM BigFix Console. Click Finish to exit the wizard.			
	☑ Launch the program			
	< Back <b>Finish</b> Cancel			

Login to the console:

	IBM.	
	b Login to IBM BigFix	-
	Server: spt1-win2k8r2 User name: iemadmin Password: ••••••••	
BigFix Consol Version 9.5 Licensed Materials - Prop are trademarks or registe	Use Windows session credentials Use SAML authentication Login Quit the IBM logo, and BigFix this software includes	

code written by third parties, and in some cases modified by IBM. Additional details regarding such third party code, including modifications made by IBM, availability of source code, and the applicable copyright, legal and licensing notices, are available in the NOTICES file(s) for this software.

Next, **upgrade the client on the BigFix Server machine** by taking action on Task # 2411 - "Updated Windows Client - IBM BigFix version 9.5.0 Now Available!" in the BES Support site and target the BigFix Server machine:

🖉 Take i	Action				_ 🗆 ×
Name:	Updated Windows Client - IBM BigFix ve	rsion 9.5.0 Now Available!	Create in domain	: All Content	•
Preset:	Default	Show only perso	onal presets		)elete Preset
Target	Execution Users Messages Offer	Post-Action Applicability Success Crit	eria Action Script		
Targe	et:				
e	Select devices				
0	Dynamically target by property				
	Enter device names				
[		Computer ID	IP Address	Computer N 🛆	BES Client Vers
		iii 3619364	9.39.151.222	SPT1-WIN2K8R2	9.2.5.130
I					
		OK Cancel			

Next, **upgrade the rest of the consoles** in the deployment by taking action on Task # 2391 - "IBM BigFix - Updated Platform Server Components version 9.5.0 Now Available!" in the BES Support site and target the machines that have consoles installed on them.

Next, **upgrade the relays** in the deployment by taking action Task # 2415 - "Updated Windows Relay - IBM BigFix version 9.5.0 Now Available!" for Windows relays and Task's 2394, 2396, 2401, 2404, and 2406 if you are updating relay's on AIX, CentOS, Red Hat, Solaris, and SuSE respectively in the BES Support site.

Lastly, **upgrade the clients** in your deployment by take action on Task # 2411 - "Updated Windows Client - IBM BigFix version 9.5.0 Now Available!" for Windows clients and Task's 2393, 2395, 2397, 2400, 2403, 2405, 2407, and 2420 for AIX, CentOS, Debian, Red Hat Solaris, SuSE, Ubuntu, and Mac OS X clients respectively.