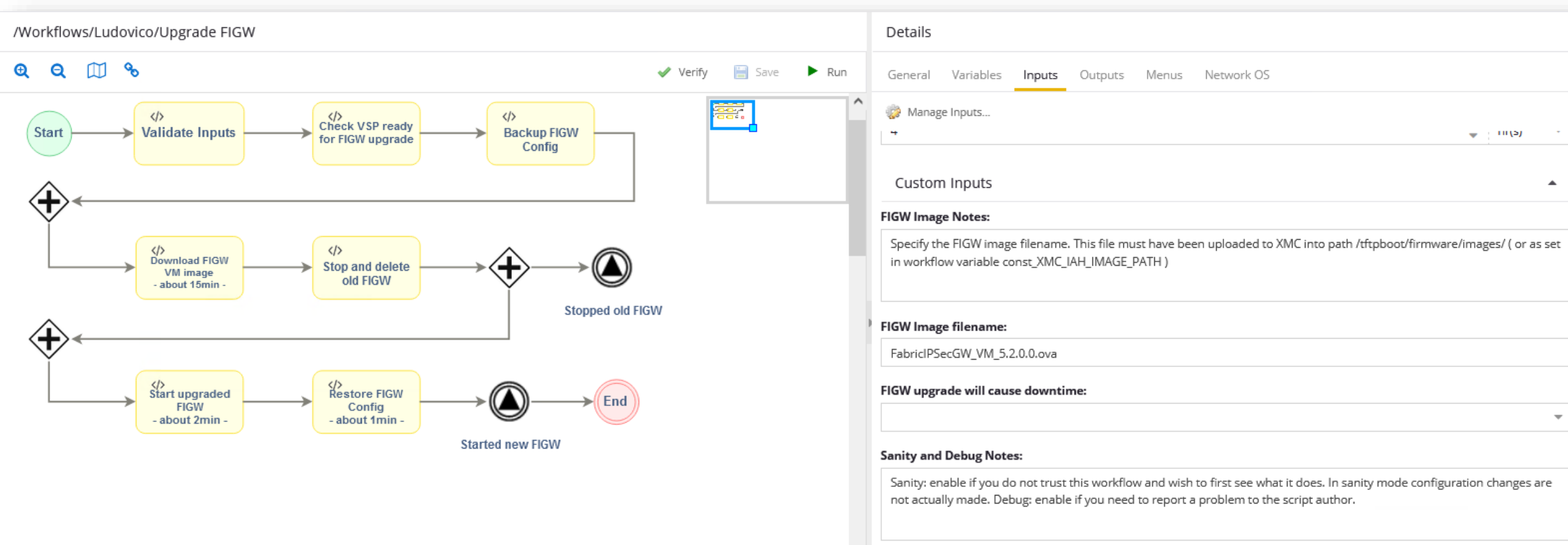


EXTREME NETWORKS

XIQ-SE workflow: Upgrade FIGW VM

Ludovico Stevens, August 2022

The workflow



Workflow allows upgrading VOSS IAH FIGW VM on one or more switches

VM Image is stored on XIQ-SE. Workflow takes care of upgrading the FIGW VM while conserving the FIGW config; requires downtime for FIGW Fabric Extend tunnels

Uploading the VM image to XIQ-SE



- **Transfer the FIGW VM image directly to XIQ-SE path:**
 - /tftpboot/firmware/images/
- **The FIGW image is just under the 4096MB file size limit to use XIQ-SE's web interface upload tool**
 - Else use Filezilla to SFTP the file directly onto the XIQ-SE filesystem

Firmware Archives Configuration Templates Reports Upgrade FIGW (26270)

Referenced Image Name

Upload Firmware to Server

4 GB

Cancel upload

File Transfer Mode: ☒ TFTP ☐ FTP ☐ SCP ☐ SFTP

Server Path: /tftpboot/firmware/images/

Subdirectory:

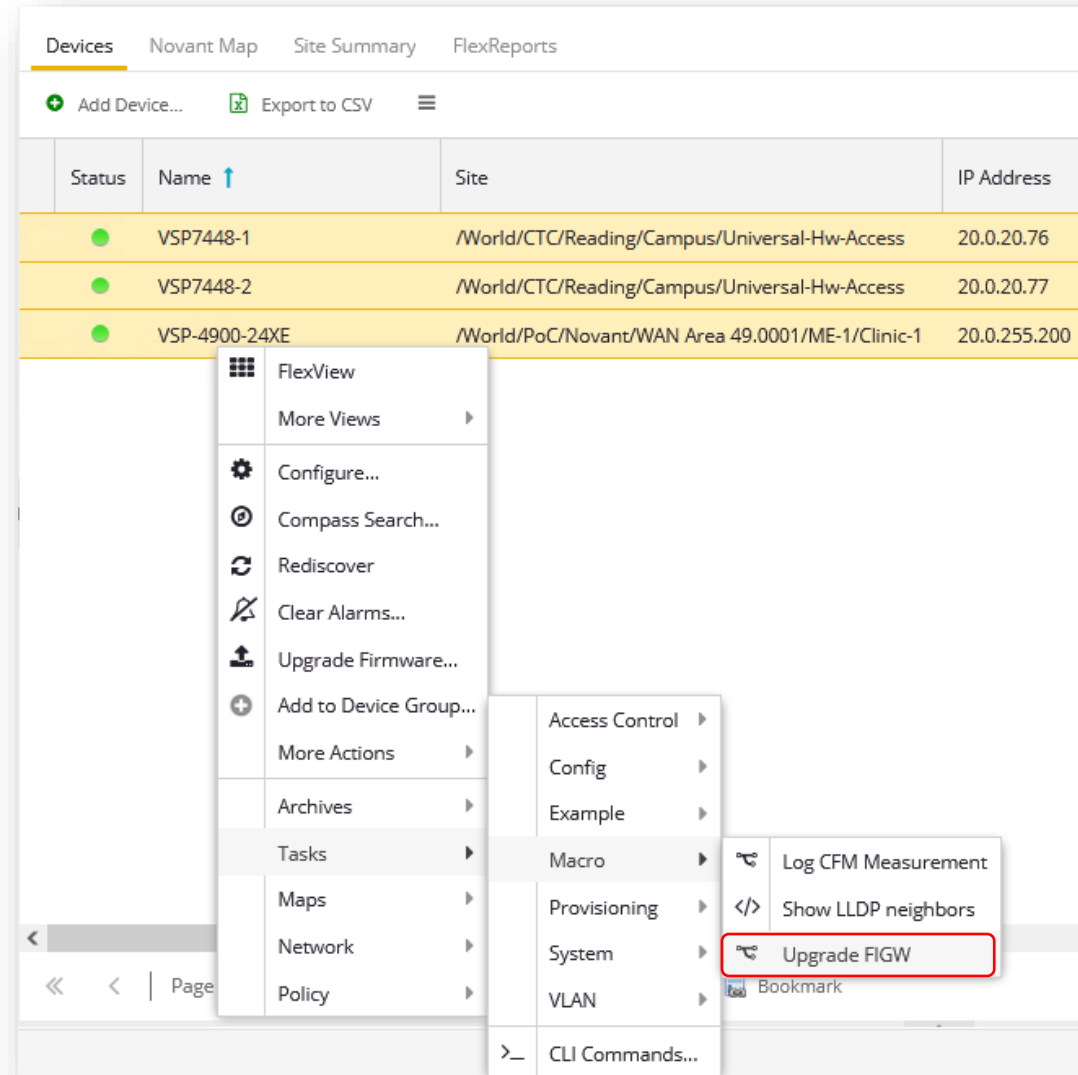
Upload Close

Firmware Archives Configuration Templates Reports Upgrade FIGW (26270)			
Referenced	Image Name	Image Filename	Image Path
	FabricIPSecGW_VM_5.2.0.0.o...	FabricIPSecGW_VM_5.2.0.0.o...	/tftpboot/firmware/images/

Running the workflow



- **One or more switches can be selected**
 - VSP 7400
 - VSP 4900
 - 5720 Fabric Engine
- **Workflow will error if run on non-IAH capable switches, or switches where no FIGW is already deployed**



Running the workflow



- **Provide the FIGW ova image filename**
- Must be located under /tftpboot/firmware/images on XIQ-SE
- **Click Next then Run the workflow**

Run Workflow - Upgrade FIGW

Workflow Inputs

Timeout Properties

Timeout:

4 hr(s)

Custom Inputs

FIGW Image Notes:

Specify the FIGW image filename. This file must have been uploaded to XMC into path /tftpboot/firmware/images/ (or as set in workflow variable const_XMC_IAH_IMAGE_PATH)

FIGW Image filename:

FabricIPSecGW_VM_5.2.0.0.ova

FIGW upgrade will cause downtime:

acknowledge

Sanity and Debug Notes:

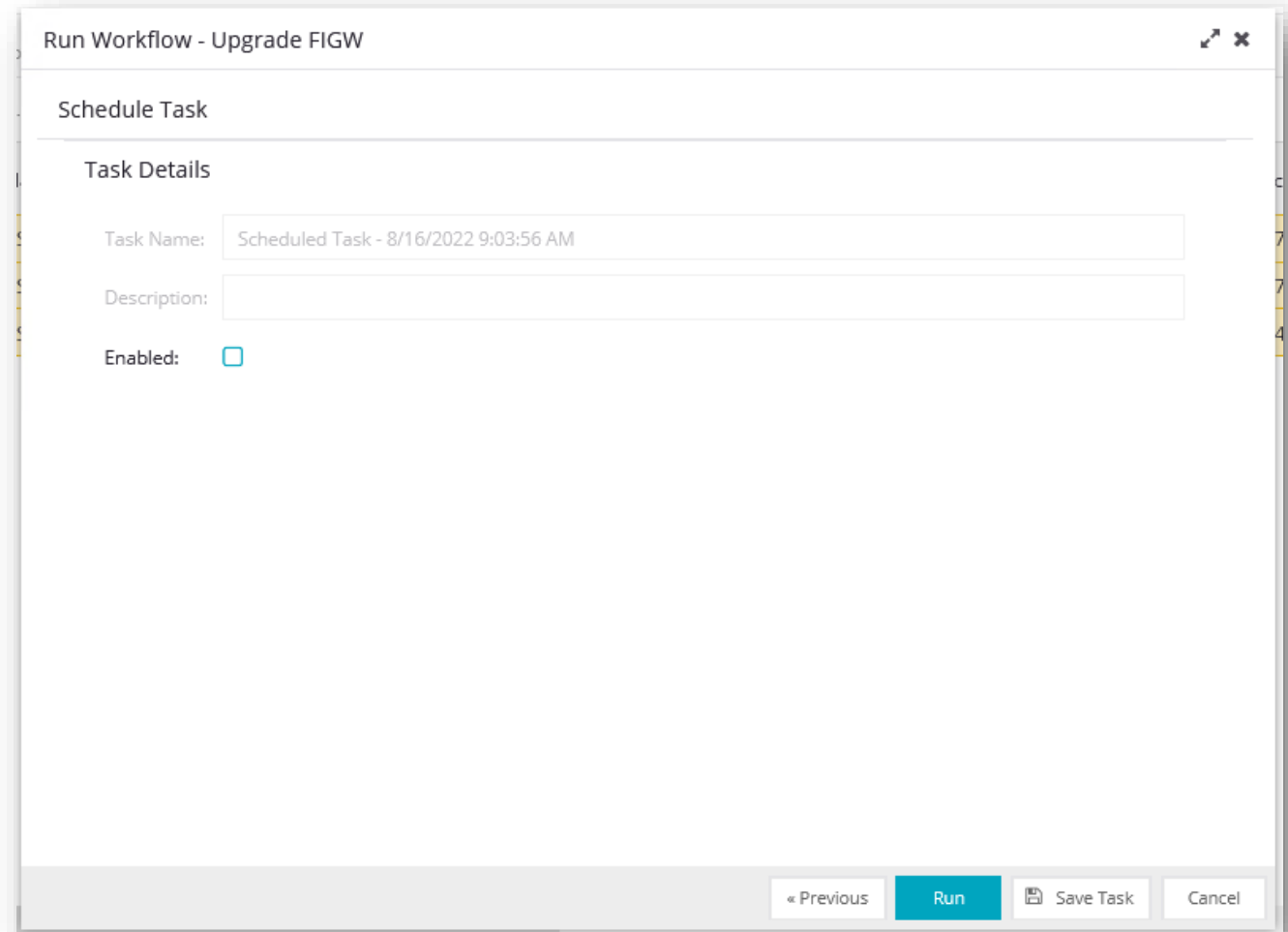
Sanity: enable if you do not trust this workflow and wish to first see what it does. In sanity mode configuration changes are not actually made. Debug: enable if you need to report a problem to the script author.

< Previous Next > Cancel

Running the workflow



- **Hit Run**



The image shows a software dialog box titled "Run Workflow - Upgrade FIGW". It has a "Schedule Task" section with the following fields:

- Task Name:** A text box containing "Scheduled Task - 8/16/2022 9:03:56 AM".
- Description:** An empty text box.
- Enabled:** A checkbox that is currently unchecked.

At the bottom of the dialog, there are four buttons: "« Previous", "Run" (highlighted in blue), "Save Task", and "Cancel".

Running the workflow



- **Wait for workflow completion**

Summary

Status	Start Date/Time	Name	Version	Source	# Devices	Started By	End Date/Time	Message	Path
✓	8/16/2022 7:21:55 ...	Upgrade FIGW	36	Workflow Designer ...	3	Istevens	8/16/2022 7:39:57 ...	Successfully upgraded FIGW to version 5.2.0...	/Workflows/Ludovico/Upgrade FIGW

Graph View Table View

🔍 🔍 📖 ■ Stop Workflow 📄 Show Output 📄 Show Variables

Stopped old FIGW

Started new FIGW

Devices Grid

📄 Show Output 📄 Show Variables

Status	Device IP	Output Path	Start Date/Time	End Date/Time	Message
SUCCESS	20.0.255.200		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.255.200
SUCCESS	20.0.20.76		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.20.76
SUCCESS	20.0.20.77		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.20.77

- **FTP is used to transfer the FIGW ova image**

- If the FTP daemon is disabled on the switch, the workflow will temporarily enable it, then disable it afterwards

Workflow Events recorded / Failure of upgrade on some devices



Alarms Alarm Configuration **Events** Event Configuration

All

Type: Console

Export to CSV

Category	Date/Time	Source	Subcomponent	Client	User	Type	Event	Information
Workflows	8/16/2022 7:39:57 AM	[20.0.255.200, ...	Workflow: Upgrade FIGW	---	Istevens	Event	Started new FIGW VM	Started new FIGW VM version 5.2.0.0 on [20.0.255.200, 20.0.20.76, 20.0.20.77]
Workflows	8/16/2022 7:36:33 AM	[20.0.255.200, ...	Workflow: Upgrade FIGW	---	Istevens	Event	Stopped old FIGW VM	Stopped FIGW VM on [20.0.255.200, 20.0.20.76, 20.0.20.77]

- If the upgrade fails for some devices, the workflow will continue running for the other devices. The workflow will claim success, globally, as long as one switch succeeds with the upgrade and the above events will reflect all selected switches.
- To see if some devices failed the upgrade, inspect the workflow execution, last activity and see if some device instances failed
- Then look at the “Show Output” log of the activities, to locate why a given device failed the upgrade

Summary

Status	Start Date/Time	Name	Version	Source	# Devices	Started By	End Date/Time	Message	Path
✓	8/16/2022 7:21:55 ...	Upgrade FIGW	36	Workflow Designer ...	3	Istevens	8/16/2022 7:39:57 ...	Successfully upgraded FIGW to version 5.2.0.0...	/Workflows/Ludovico/Upgrade FIGW

Graph ViewTable View

Stop WorkflowShow OutputShow Variables

```
graph LR; Start((Start)) --> Validate[Validate Inputs]; Validate --> Check[Check VSP ready for FIGW upgrade]; Check --> Backup[/Backup FIGW Config/];
```

Devices Grid

Show OutputShow Variables

Status	Device IP	Output Path	Start Date/Time	End Date/Time	Message
SUCCESS	20.0.255.200		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.255.200
SUCCESS	20.0.20.76		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.20.76
SUCCESS	20.0.20.77		8/16/2022 7:3...	8/16/2022 7:3...	Successfully upgraded FIGW to version 5.2.0.0 on device 20.0.20.77

