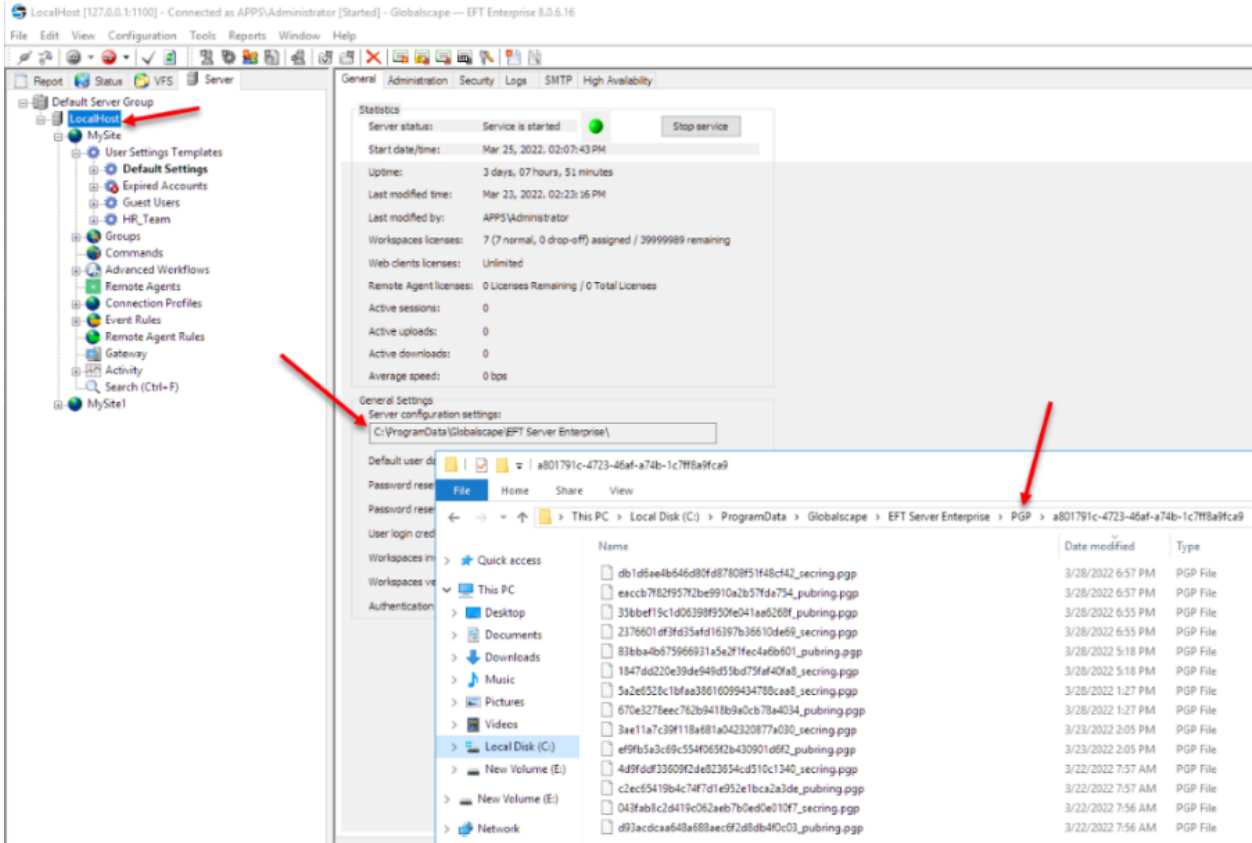


AWE File PGP Encryption

AWE File PGP Encryption Customers wanting to use PGP encryption in releases of EFT 8.0.x should follow these steps:

- Version 8.0.x of EFT leverages GUID PGP keyring files which regenerate as you make changes to the keyring. This means that you can no longer point to a single keyring reference as you could in previous versions. You should now be able to see a PGP folder in your Server Configuration Settings folder. There will be one folder per site, and within that folder you will see various revisions of the private and public key rings.



- You will notice that there will be additional keys in the OpenPGP keyring. A key ring will display various versions of the key for encryption / decryption, sign, etc.

OpenPGP Keyring

Current site: MySite

Name	Created	Expires	Size	ID	Usage	Description
ENCRYPTO <encrypto@elparty.com>	3/23/2022	Never	2048	91B26758	Encrypt	EIGamal
ENCRYPTO <encrypto@elparty.com>	3/23/2022	Never	2048	E09BE0E5	Certify, Sign	DSA
ENCRYPTO2 <ENCRYPTO2@encrypto.com>	3/28/2022	Never	2048	3C764D0A	Encrypt	EIGamal
ENCRYPTO2 <ENCRYPTO2@encrypto.com>	3/28/2022	Never	2048	00A3B8DB	Certify, Sign	DSA
ENCRYPTO3 <ENCRYPTO3@encrypto.com>	3/28/2022	Never	2048	515DFBC1	Encrypt	EIGamal
ENCRYPTO3 <ENCRYPTO3@encrypto.com>	3/28/2022	Never	2048	90FBA63F	Certify, Sign	DSA

- Make sure the logic of our AWE encryption rules is set correctly. In the example below, we used a folder monitor with a condition that triggers on files added to the folder where the extension does not match ***.pgp**.

Enable this rule: **AWE_ENCRYPT [Folder Monitor]**

Comment: Monitor a specified folder then execute an action. NOTE: use the "File Uploaded" event instead when monitoring folders for files added to the server via FTP/S, SFTP, ...

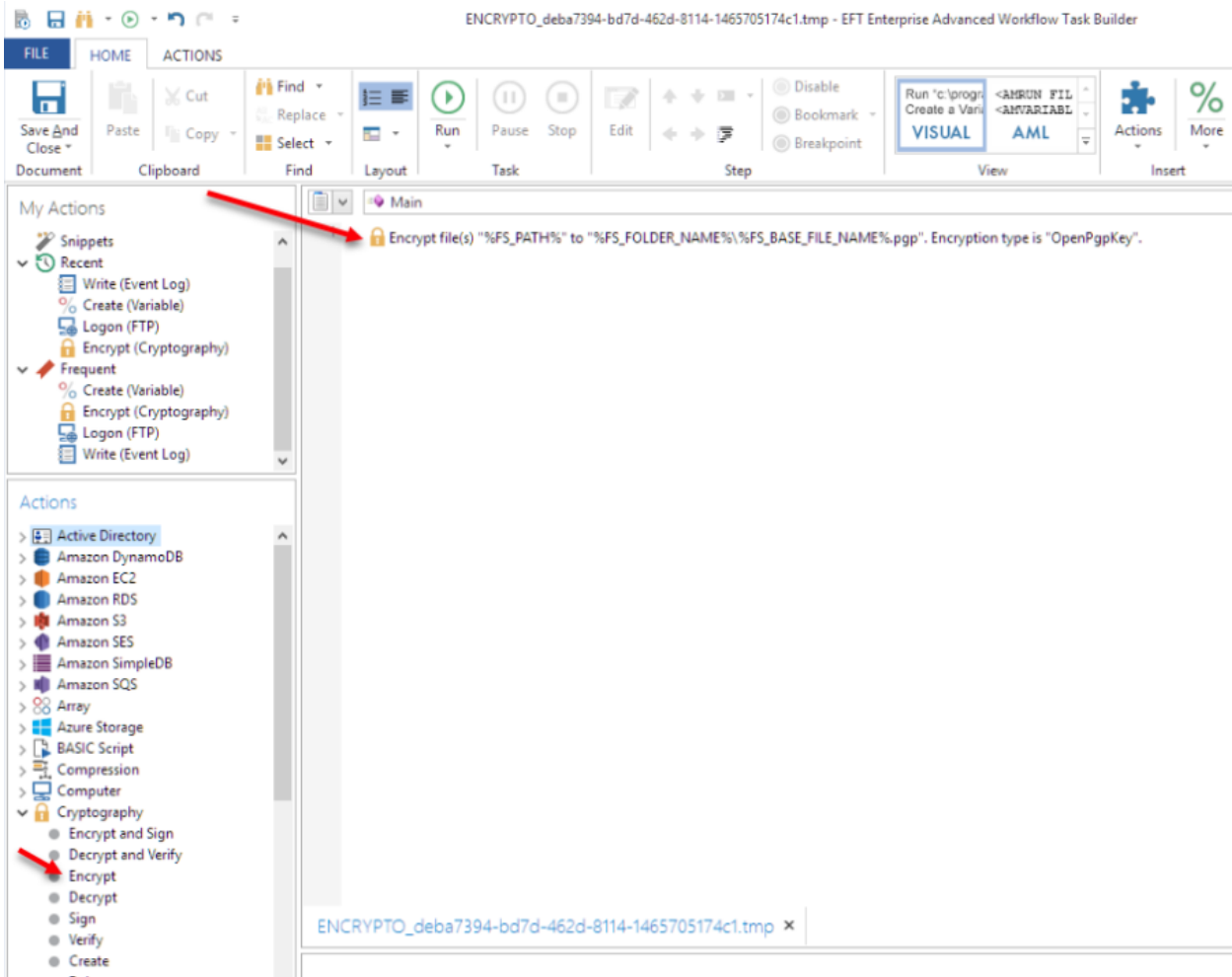
Actions (required):

- Protocol: Upload
- Protocol: Download
- Protocol: Synchronize
- Protocol: AS2*
- Protocol: Email
- Protocol: Listing to Dataset
- Cloud: Upload
- Cloud: Download
- Cloud: REST/Web Services
- Compression
- Cryptography: OpenPGP
- CSV: Export to Dataset
- CSV: Import from Dataset
- File: Scan
- File: Operation
- Folder: Operation

Rule Builder:

- Monitor folder: **C:\Users\Administrator\AppData\Desktop\ENCRYPTO [high availability]**
- If File Change **does equal to added** and If File Name **does not match *.pgp**
- Execute **ENCRYPTO task**

- Once you have validated your event rule logic, you need to launch your AWE script. Inside the AWE Task Builder, select the **Encrypt** action from the **Cryptography** section. If one is already defined, double click on it.



- To configure the Encryption Action, as shown above, using these steps:
 1. Set Source as `%FS_PATH%` to enable EFT to pass the source location and filename from EFT.
 2. As part of your Destination, set `%FS_FOLDER_NAME%` —be sure to add a slash / if needed.
 3. Use `%FS_BASE_FILE_NAME%` to remove the original file extension.
 4. Add the PGP extension.
 5. To leverage your keyring dynamically, set Encryption Type to "OpenPGP Public Key."
 6. Select your preferred encryption algorithm.
 7. In this example, three different keys are selected to illustrate a use case in which you can use multiple keys to encrypt a files. Decryption will use only one private key that match any of the public keys used for encryption. Most use cases will only use a single key for encryption.

Action Properties

Cryptography

Performs Cryptography activities such as Encrypt, Decrypt and Sign using OpenPGP, PGP or Proprietary modules. Cryptography is a technique for securing data.

ACTIVITIES Properties Description Error Causes On Error

GENERAL

1 Encrypt and Sign
2 Decrypt and Verify
3 Encrypt
4 Decrypt
5 Sign
6 Verify

KEY CONTAINER

7 Create
Delete
Generate key file(s)

GENERAL

Source: %FS_PATH%

Destination: %FS_FOLDER_NAME%\%FS_BASE_FILE_NAME%.pgp

Create and populate encrypt dataset:

ENCRYPT

Encryption type:

- OpenPGP public key
- OpenPGP passphrase
- OpenPGP public key
- PGP passphrase
- PGP public key
- Passphrase
- Public key

Symmetric algorithm: CASTS

Recipient(s):

Email or Name	
ENCRYPTO	X
ENCRYPTO2	X
ENCRYPTO3	X

Click here to add new row...

Select recipient(s)

- Once all parameters are set, you are ready to test your rule.