



FME  
WORLD TOUR  
2019

# Level 2: FME 2019 Scenarios

FME Server

To advance we  
must solve 5  
challenges





# PRESENTATION AGENDA

- 1 Challenge 1: FME Server Sharing
- 2 Challenge 2: Data Watching
- 3 Challenge 3: Nightly Updates
- 4 Challenge 4: Workspace Orchestration
- 5 Challenge 5: New User Notification
- 6 Bonus Challenge: Easy User Creation
- 7 FME Server 2019.0 New Features

START



Connect. Transform. **Automate.**

# Challenge 1

*“We want to **share** FME workflows with people who don’t have an FME Server account.”*



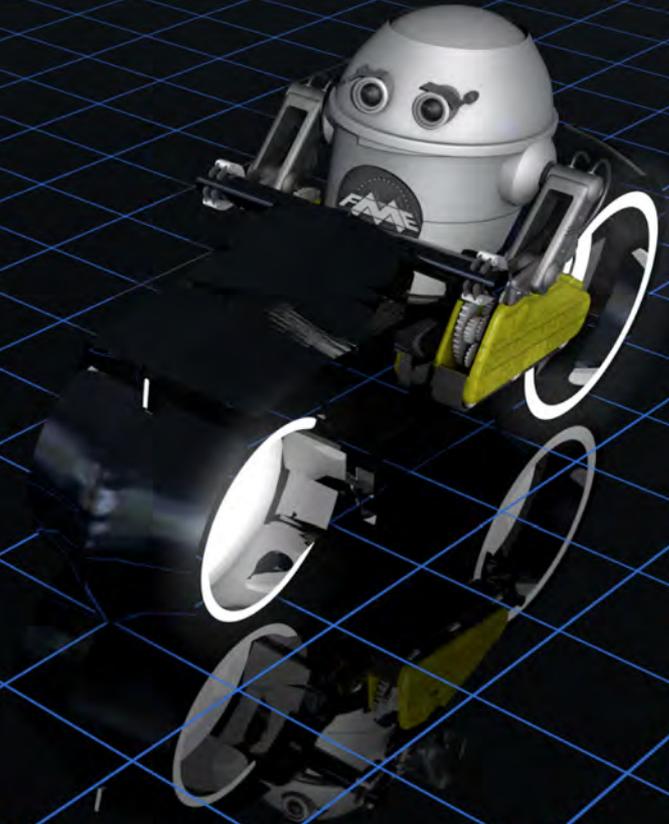


NEW

# FME Server Apps

# Challenge 1 - Demo

FME Server Apps



## Challenge 2

“We want to **watch for data** and **run an FME task** whenever new data arrives.”





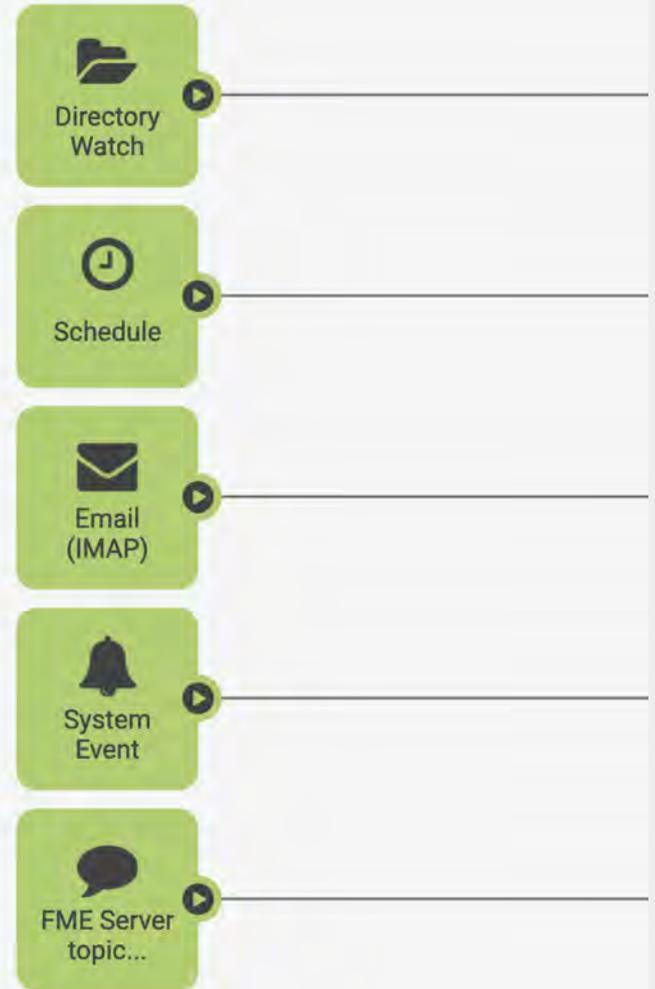
NEW

# Automations

A simple concept consisting of **Triggers** and **Actions**

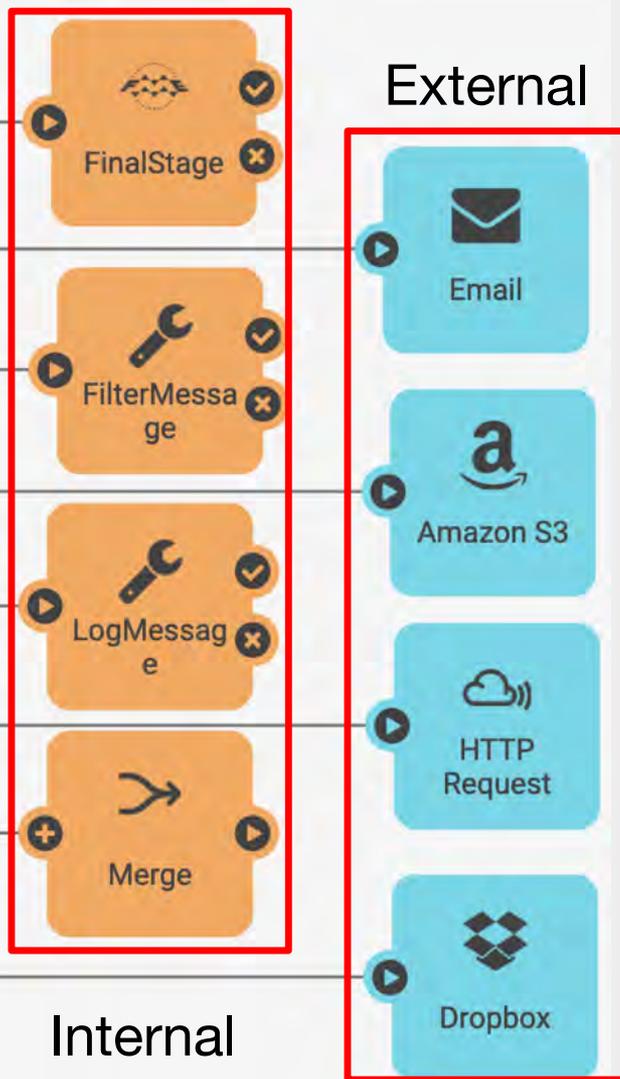
# Triggers

Start an automation



# Actions

Respond to triggers



Every Automation  
has the same pattern:

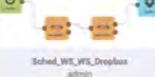
*When*  
**Trigger Occurs**  
*then*  
**Perform Action**



### Automations

Filters

Select All New Manage Tags Actions

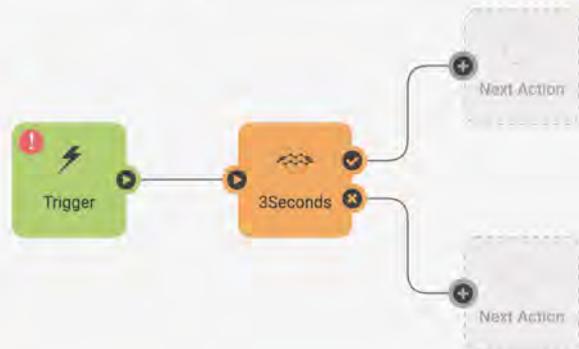
 SchemaTest_L2 admin	 StressTestSchema admin	 ANDTest_Aggregator admin	 StressTest2_Aggregator admin
 Topic_Aggregator admin	 StressTest1_Aggregator admin	 JMS Source Test admin	 SQS Source Test admin
 Email Destination Test admin	 SMS Source Test admin	 DirectoryWebOfFilter admin	 FilterEmail admin
 IMAP_WS_Email admin	 Sched_WS_WS_Droptoss admin	 DirWatch_S3_FTP admin	 SchemaTest admin

### Automations

Menu

Unsaved Workflow

Start Automation



```
graph LR; Trigger[Trigger] --> Delay[3Seconds]; Delay --> NextAction1[Next Action]; Delay --> NextAction2[Next Action];
```

+

# Watching for Data

Trigger when data arrives.



## Amazon S3 Watch

*Triggers when data arrives in location in S3 Bucket*



## Directory Watch

*Triggers when data arrives in File Directory.*



## FTP Watch

*Triggers when data arrives at location on ftp site*



## Dropbox Watch

*Triggers when data arrives in Dropbox Directory.*



## Azure Event Grid

*Can Trigger when data arrives in Azure Storage*

# Data Arrival Workflow

*When*

**Trigger Occurs**

*then*

**Perform Action**



# Demo: Directory Watch Automation

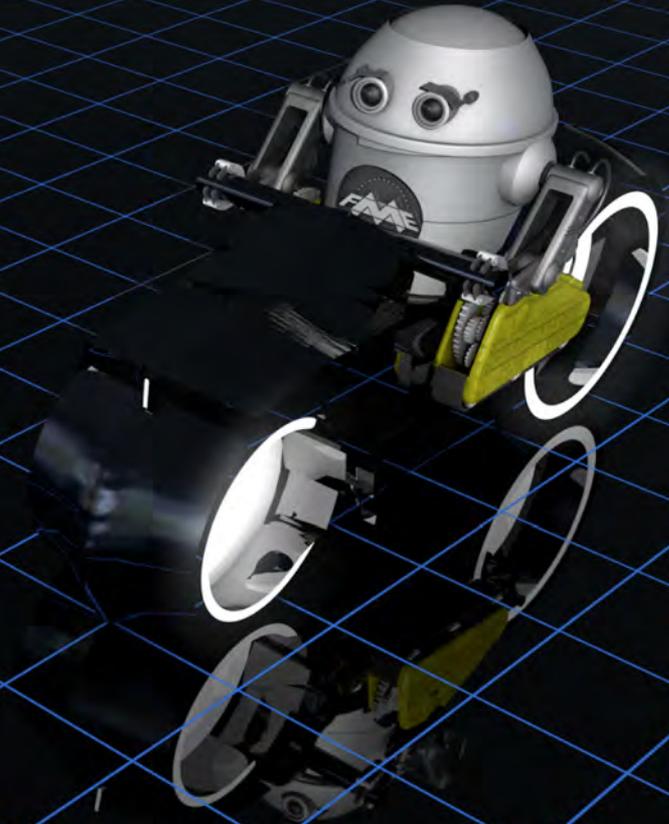
# Challenge 3

“We want to automatically **update** a database overnight.”



# Scheduling

The most popular automation



# Scheduled Automation

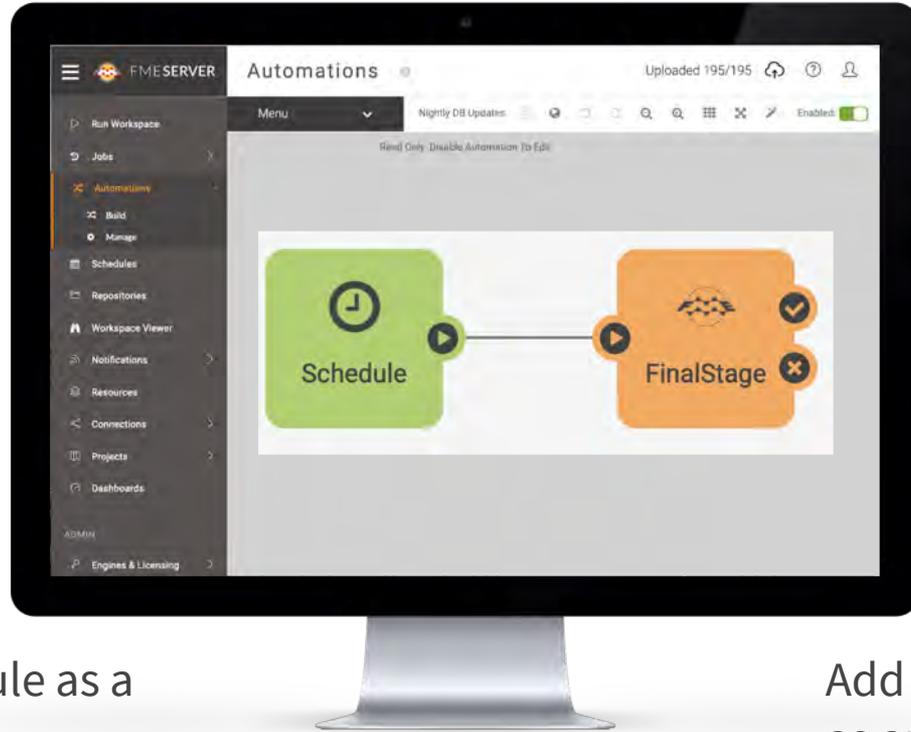
*When*

**Trigger Occurs**

*then*

**Perform Action**

# Schedule the workspace with Automations



Add a Schedule as a  
*Trigger*

Add a Workspace  
as an *Action*

Save and start your Automation



# Demo: Update Database on Schedule

## Challenge 4

“We want to orchestrate complex workflows consisting of **many** FME workspaces.”



# Workflow Orchestration

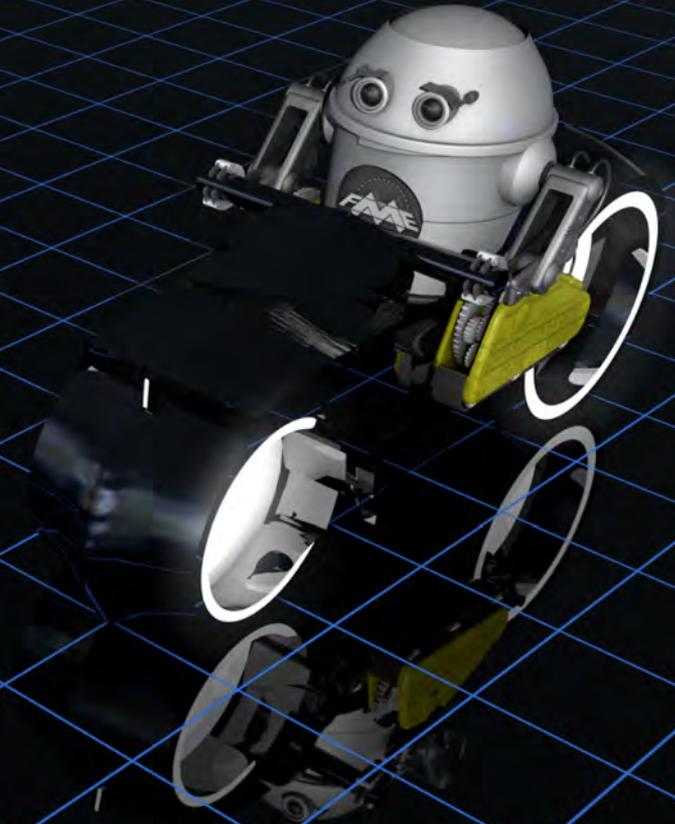
*When*

**Trigger Occurs**

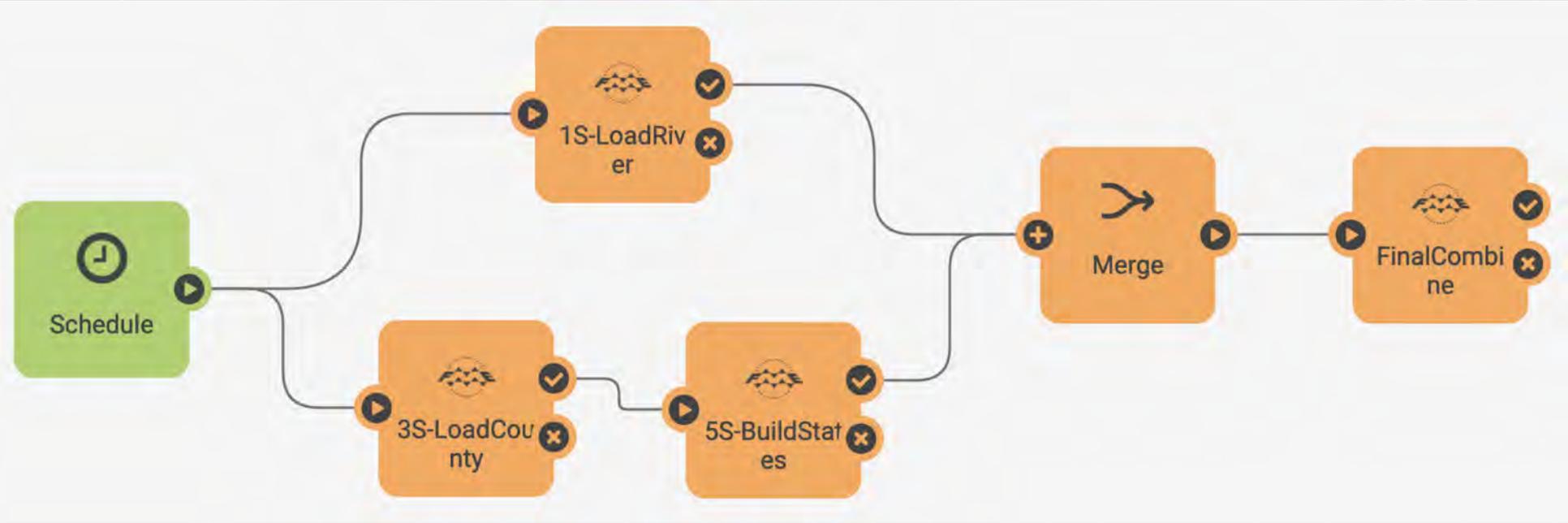
*then*

**Perform Action**

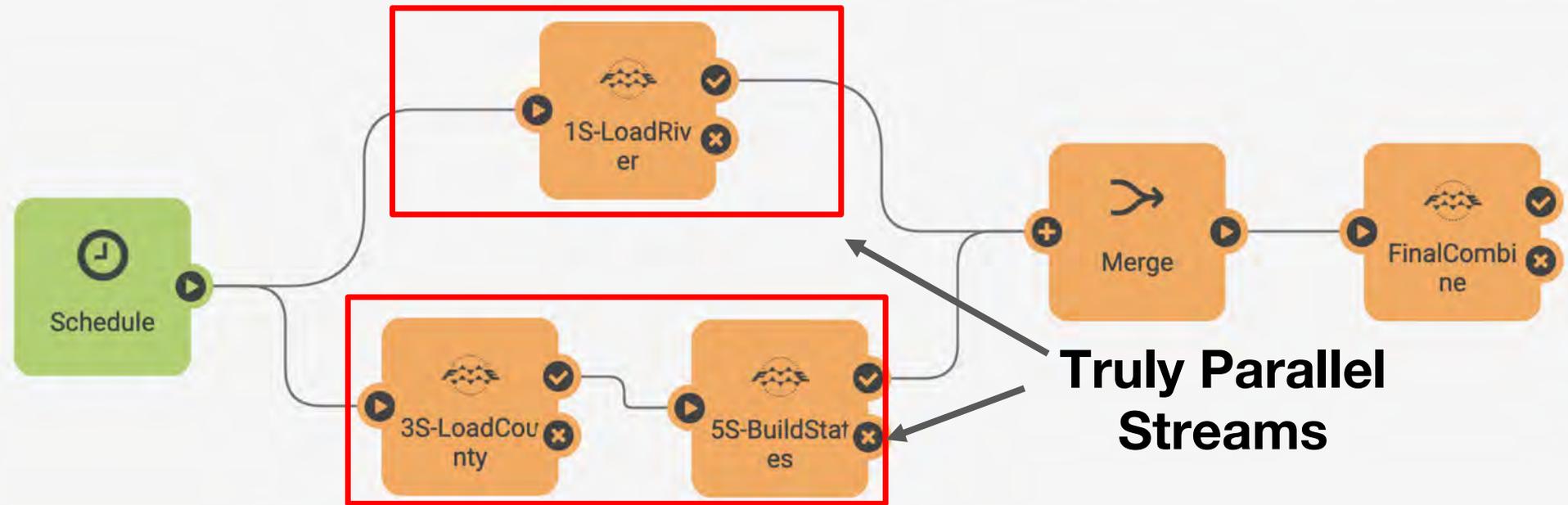
# Automations: Workflow Orchestration



# Automations: Workflow Orchestration



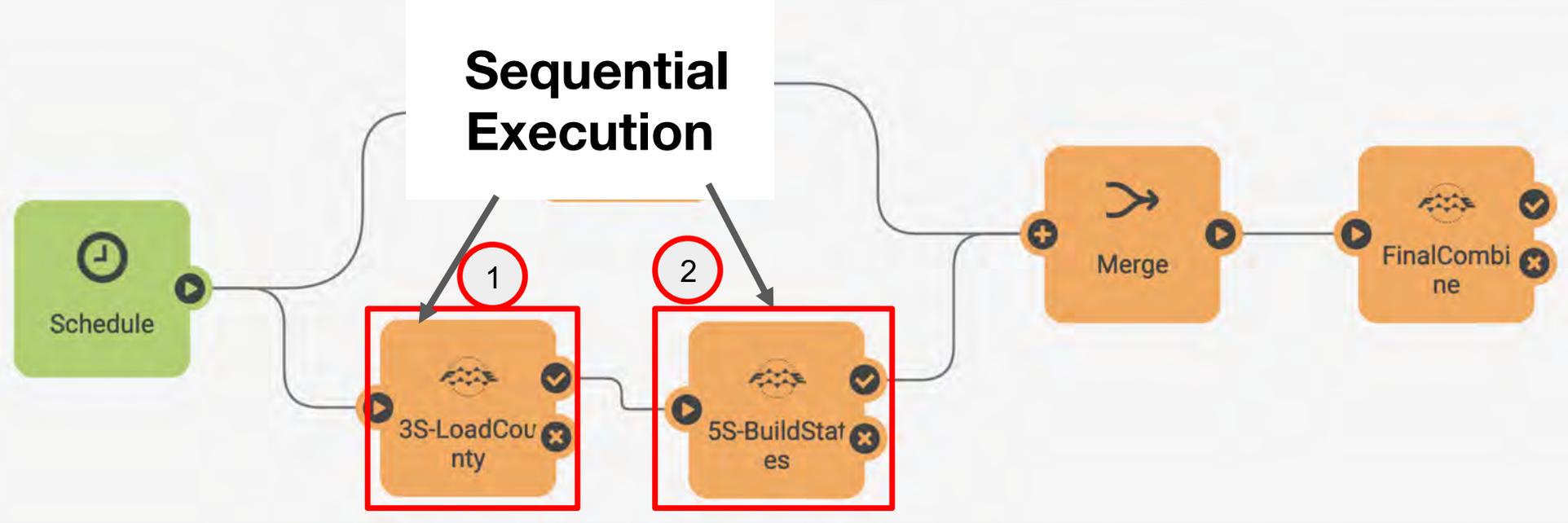
# Automations: Workflow Orchestration



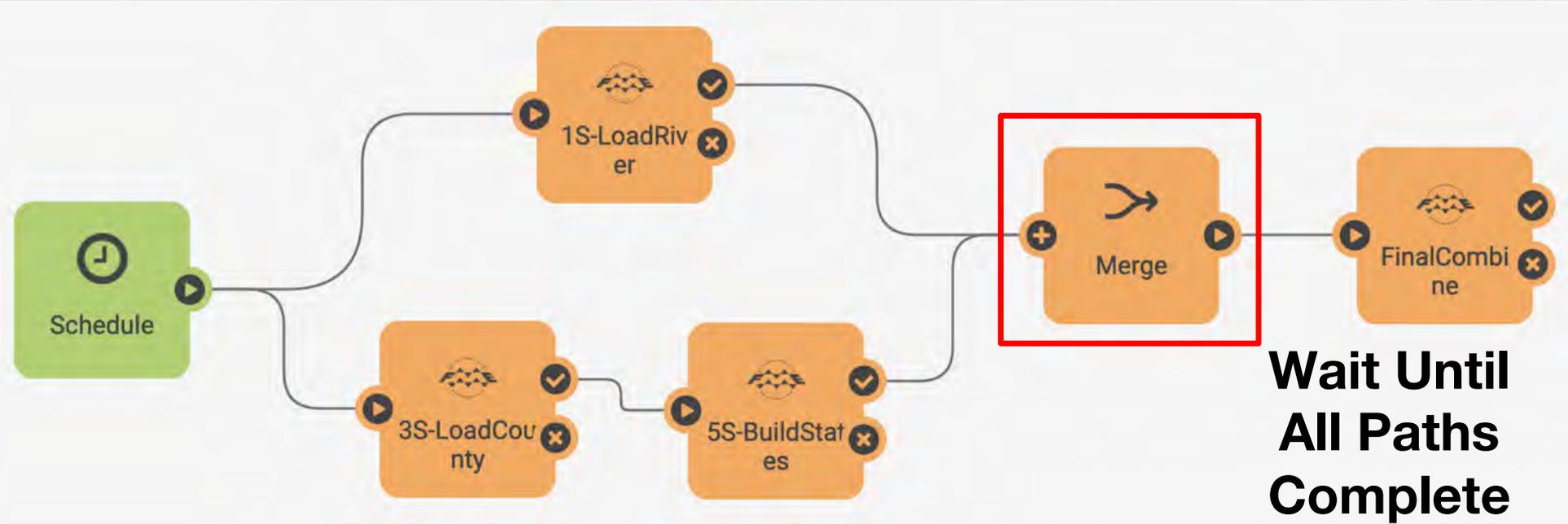
# Automations: Workflow Orchestration



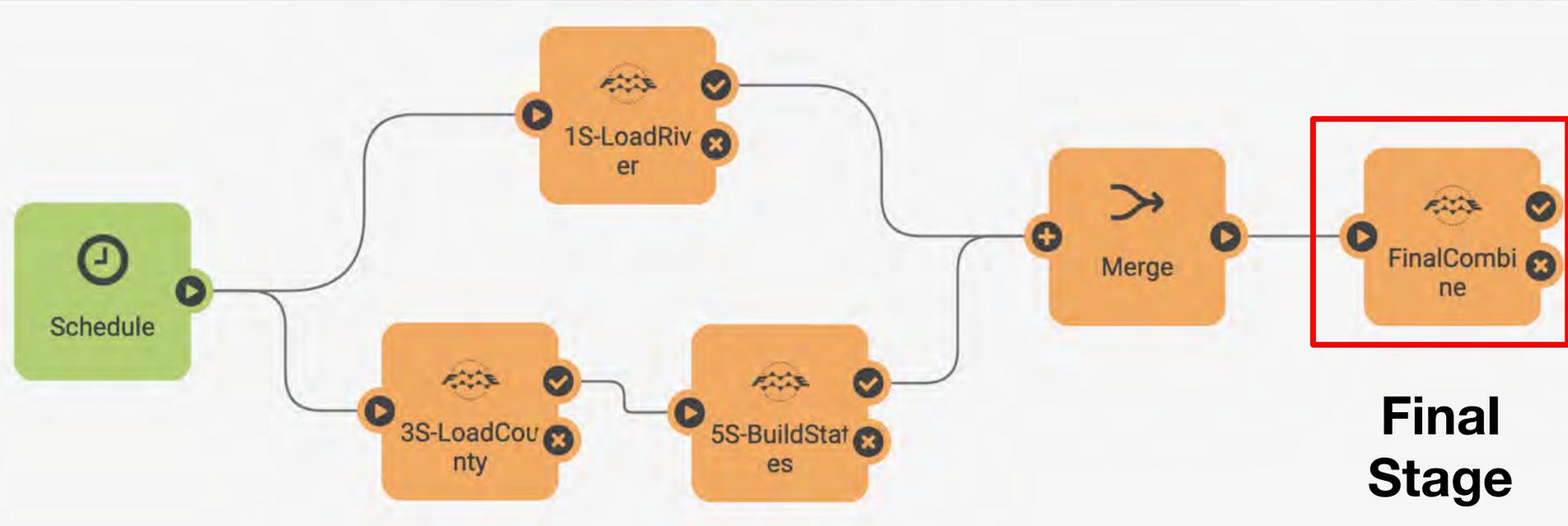
**Sequential Execution**



# Automations: Workflow Orchestration



# Automations: Workflow Orchestration





# Demo: Orchestration

# Challenge 5

*“As an Administrator, we want to know when a **new user** is created on our system.”*





NEW

# System Events

*Generated by FME Server activities*

NEW

# System Events

FME Server events made available.



System  
Event



## Security

*Account Activity:  
User create, update, delete*



System  
Event



## System Info

*Warnings and errors  
License expiry*



System  
Event



## Server Status

*Server startup  
Backup, restore*



System  
Event



## Server Activity

*Repositories and Items:  
Create, update, delete  
Project export/import*

# User Creation Notification

*When*

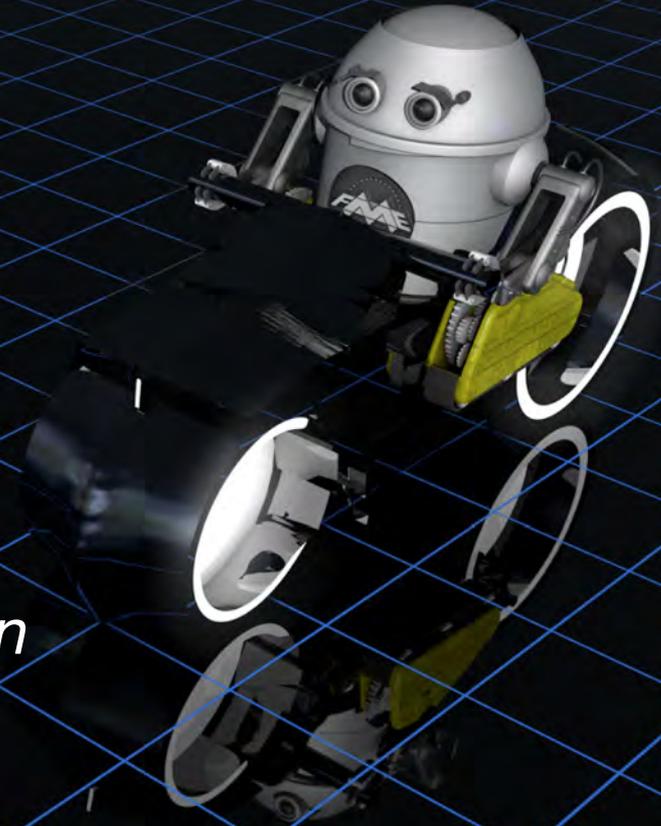
**Trigger Occurs**

*then*

**Perform Action**

# System Events & Automations

*Bring power to System Administration*





**Demo: Administrator Account Notification**

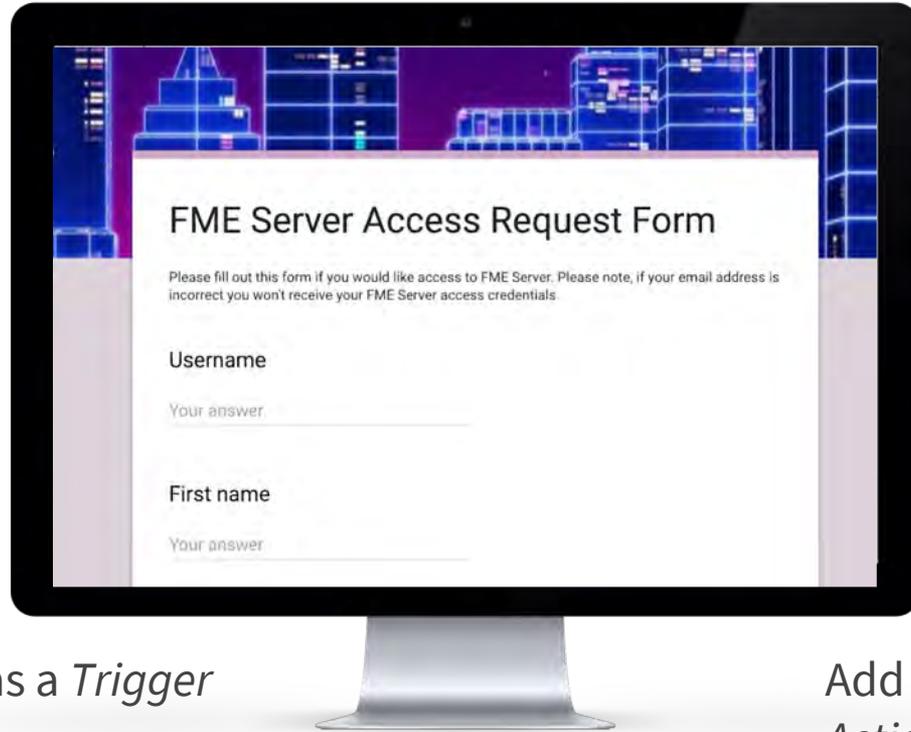
# Bonus Challenge

“We want **anyone** to be able create an account on our FME Server so that:

1. They can use FME Server.
2. We see new accounts created.”



# Run FME Server from other applications

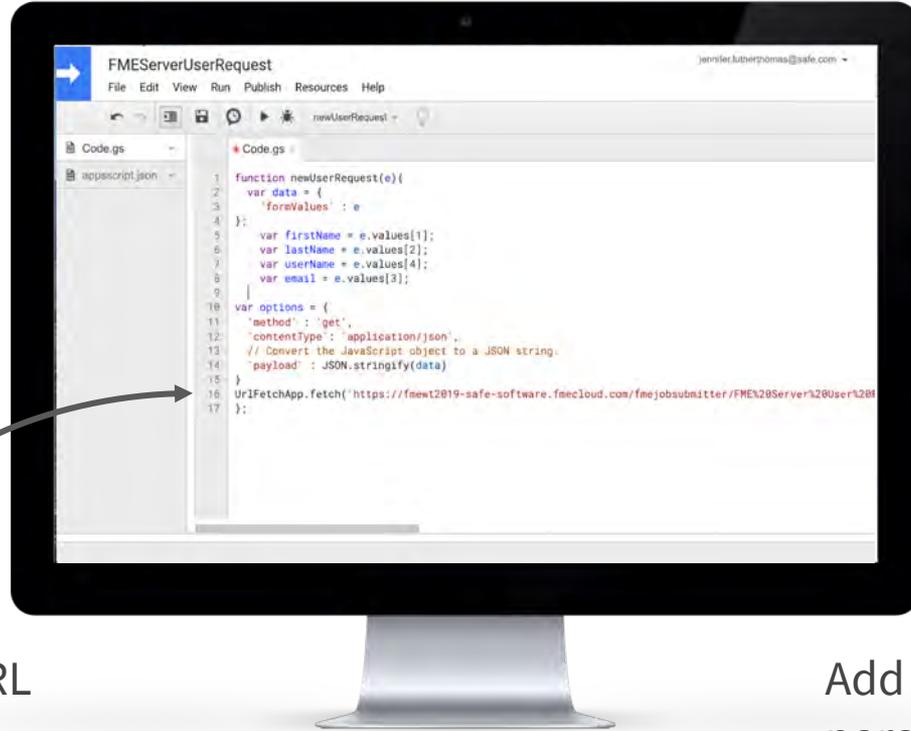


Add a Topic as a *Trigger*

Add a Workspace  
*Action*

Save and enable your  
Automation

# Run FME Server from other applications



Use Direct URL

Add correct  
parameter values

Application runs  
workspace directly

# FME Server 2019.0

New features we showed

## **FME Server Apps**

**NEW**

*Share FME workflows with anyone – no FME Server account required.*

## **Automations**

**NEW**

*Build multi-step workflows to connect applications with triggers and actions.*

## **System Events**

**NEW**

*Monitor FME Server events generated based on system activities.*

# FME Server 2019.0

More new and improved

## **Job Log Filtering**



*Filter out warnings, errors, and info.*

## **Token Management**



*Share exactly what you want with support for multiple tokens.*

## **FME Server Projects on FME Hub**



*Load and share projects on FME Hub.*

## **Password Security Rules**



*Specify password complexity.*

## **User Preferences**



*Experience the same user preferences from browser to browser.*



## Missions Complete

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Questions?