



# 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

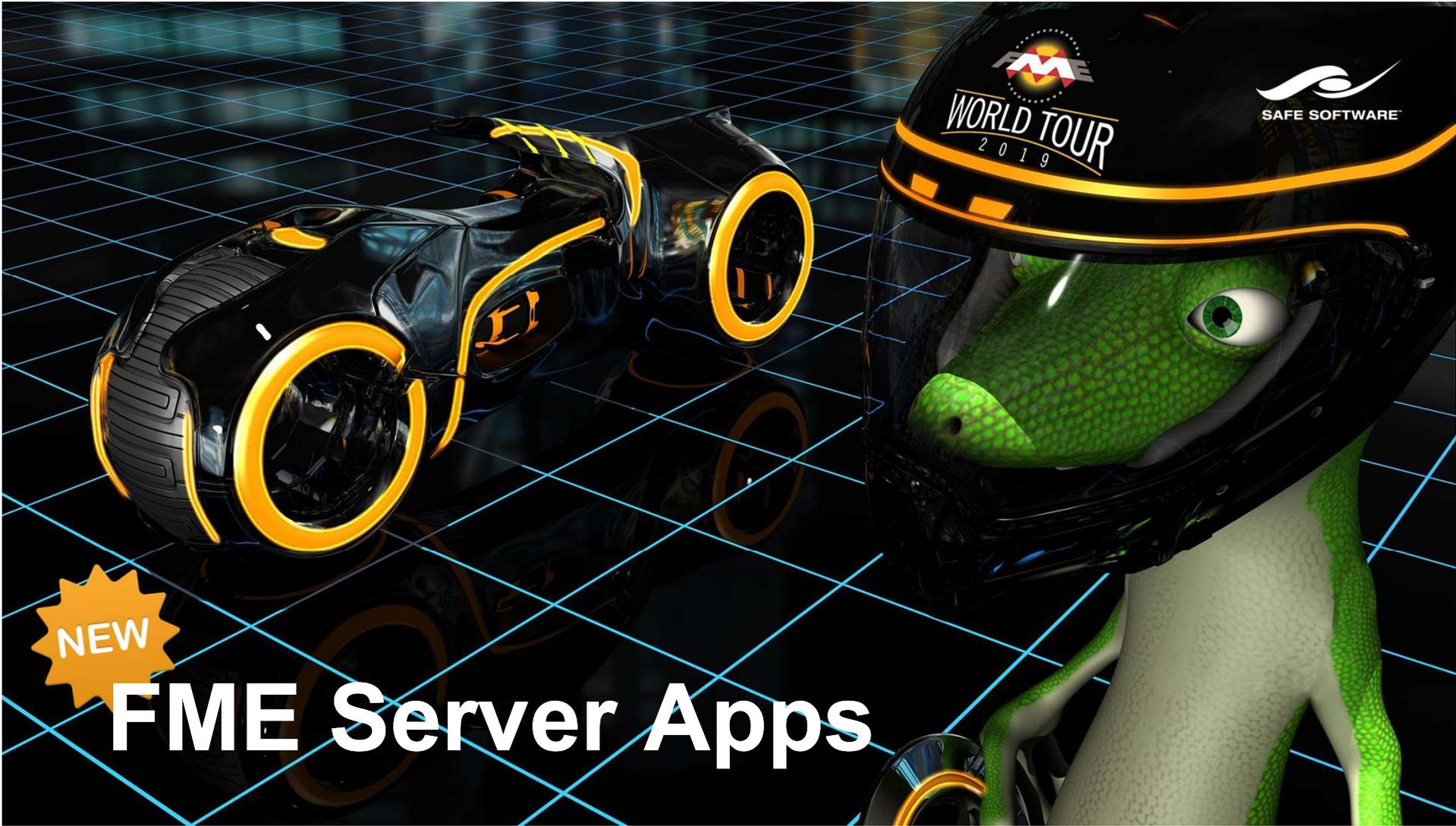


Connect. Transform. **Automate.**

# Challenge 1

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



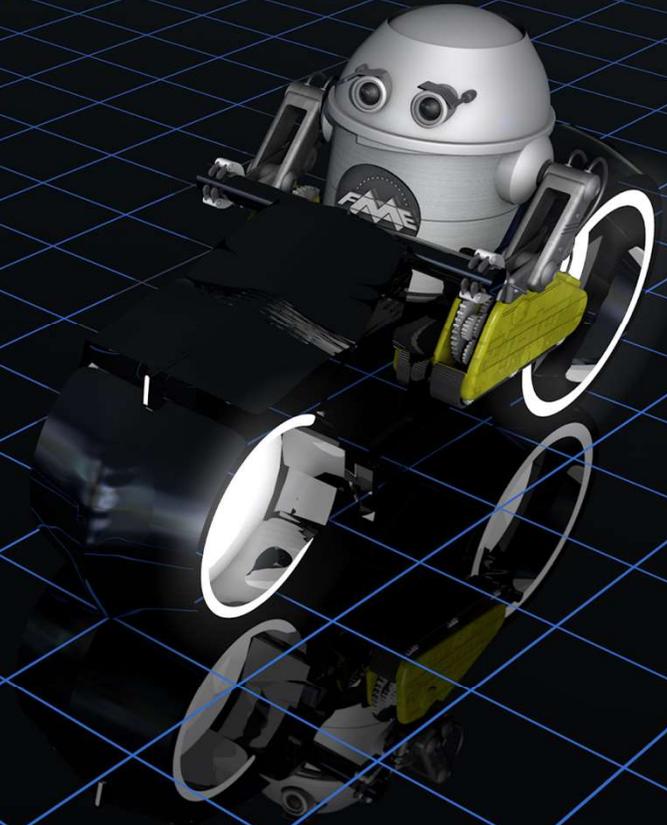


NEW

# FME Server Apps

# Challenge 1 - Demo

FME Server Apps



## Share Workspace



## Share Workspace



### Ranking

Select the World Tour city you are in

Vancouver

Reset

Run

Ran

[https://fmewt2019-safe-software.fmecloud.com/fmedatastreaming/Site Selection/Ranking.fmw?City=Vancouver&token=8275345e6fc00f3768ae800d2c6d14509a5567ab](https://fmewt2019-safe-software.fmecloud.com/fmedatastreaming/Site%20Selection/Ranking.fmw?City=Vancouver&token=8275345e6fc00f3768ae800d2c6d14509a5567ab)

This webhook will run with the parameters configured on the Run Workspace page. [Change Parameters](#)

Cancel

OK

## Challenge 2

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





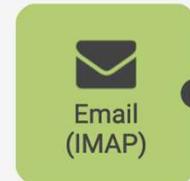
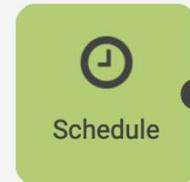
NEW

# Automations

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

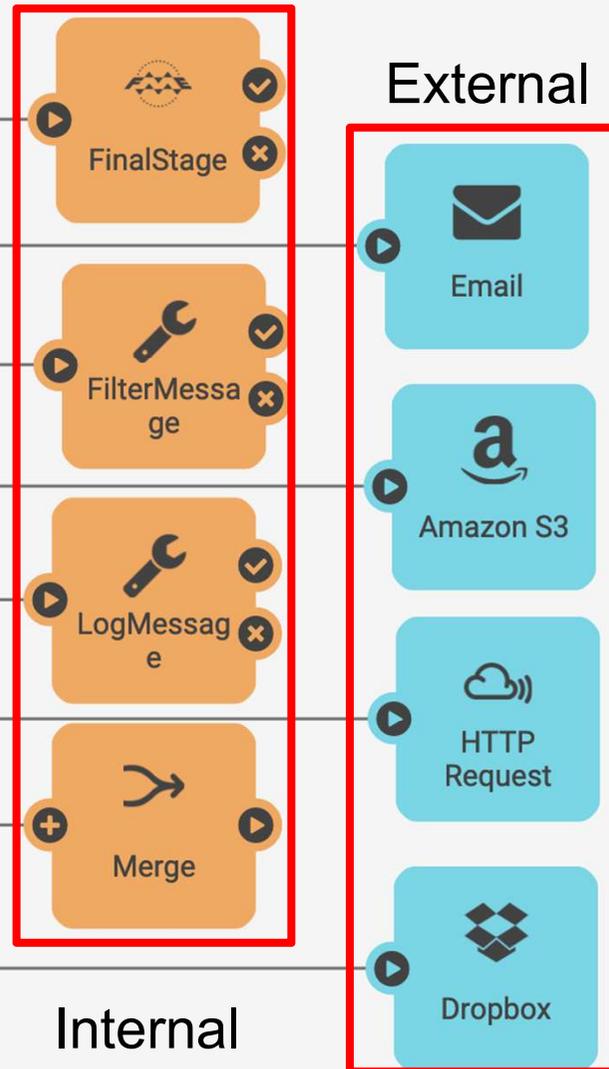
# Triggers

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


### Automations

Menu Unsaved Workflow Start Automation

```

graph LR
    Trigger[Trigger] --> 3Seconds[3Seconds]
    3Seconds --> NextAction1[Next Action]
    3Seconds --> 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**

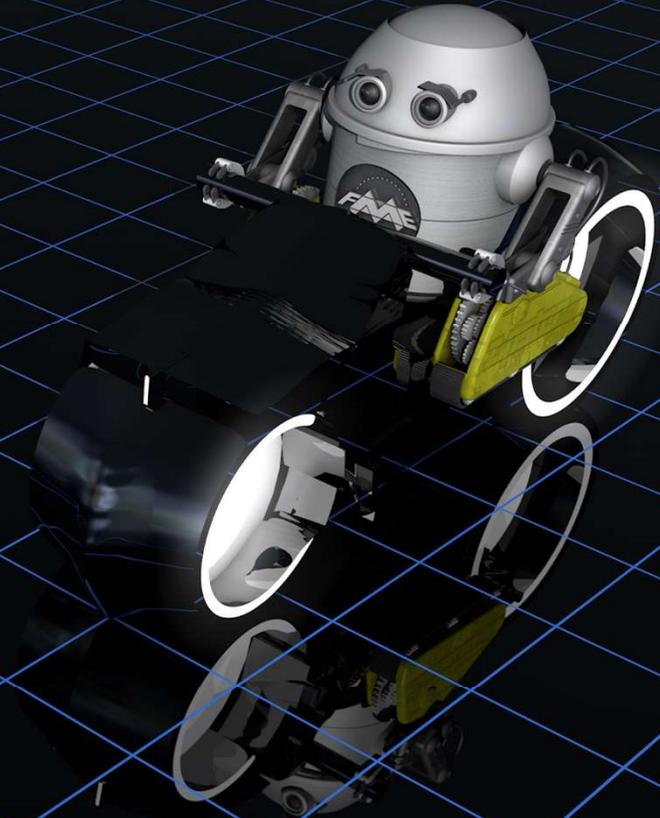
## Challenge 3

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



# Scheduling

The most popular automation



# Scheduled Automation

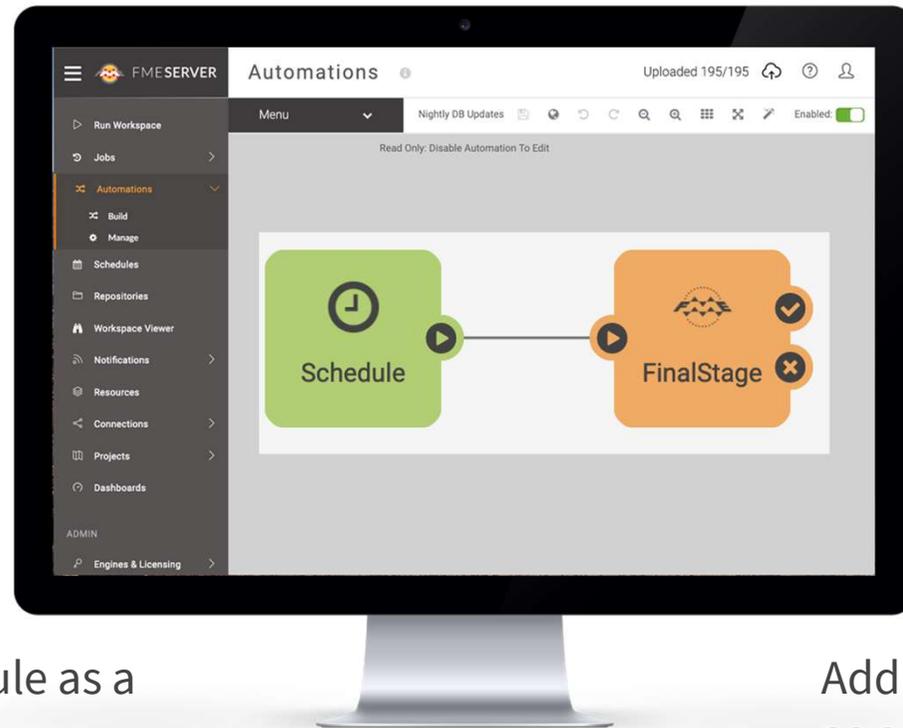
*When*

**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*

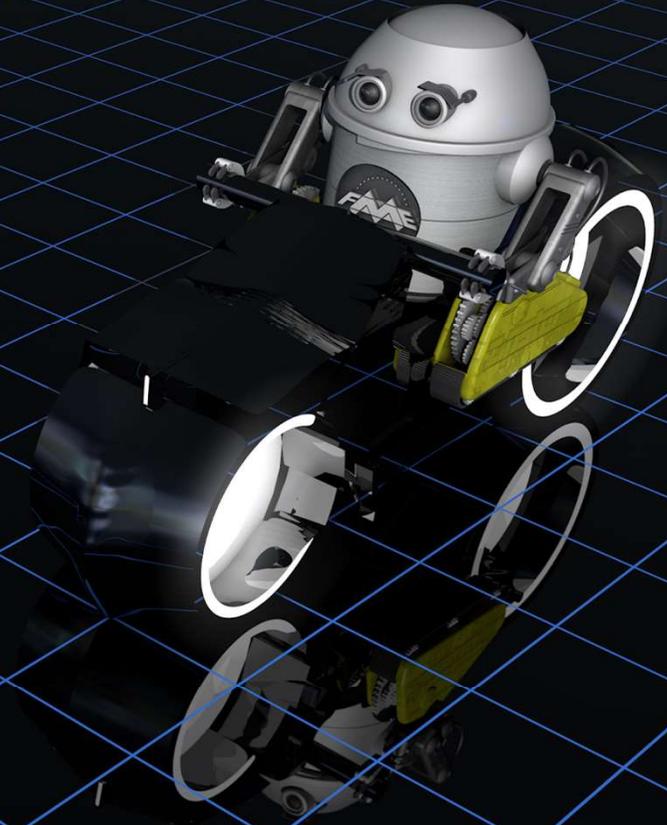
**Trigger Occurs**

*then*

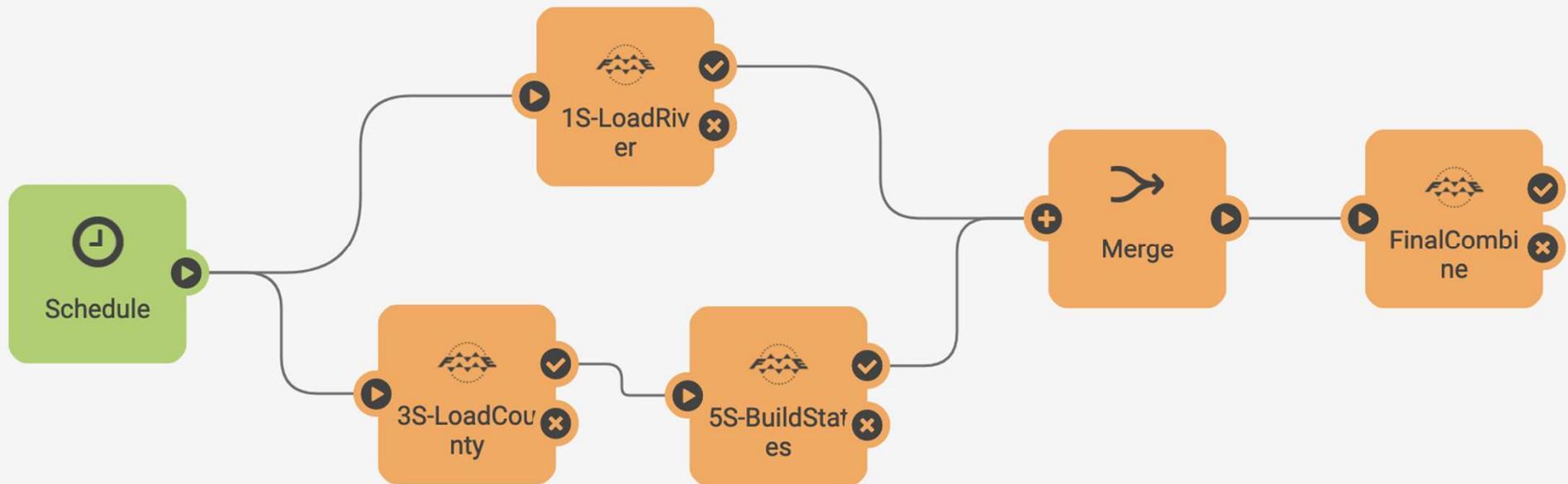
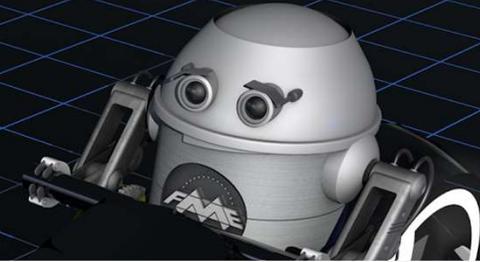
**Perform Action**



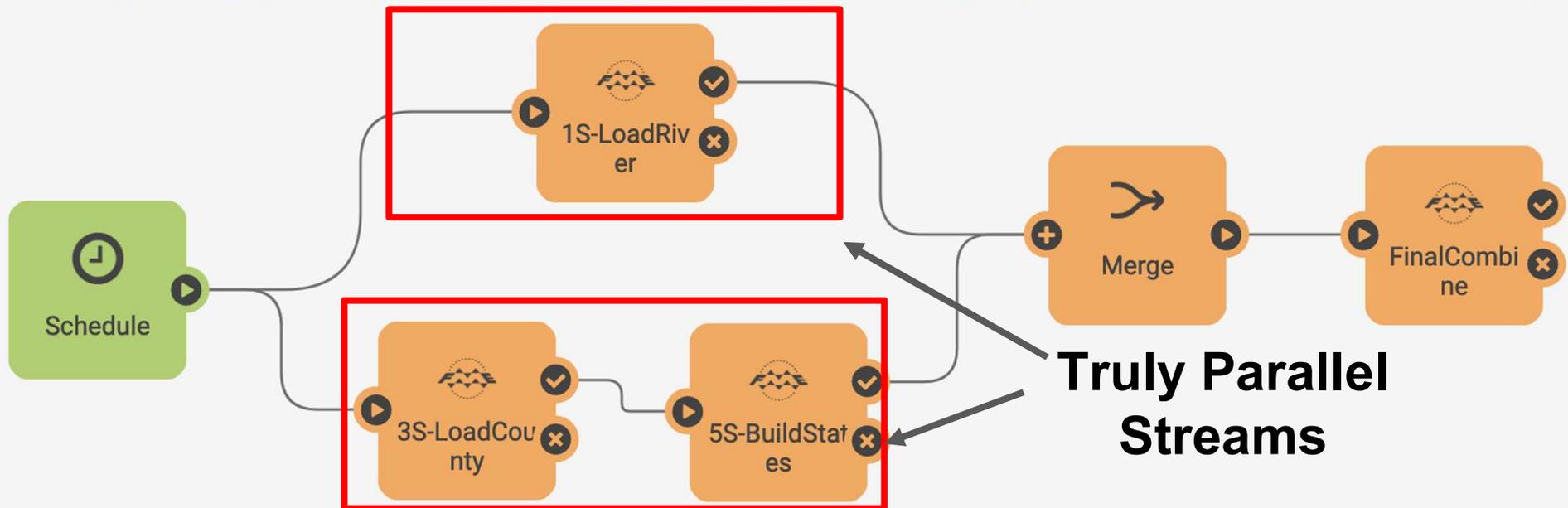
# Automations: Workflow Orchestration



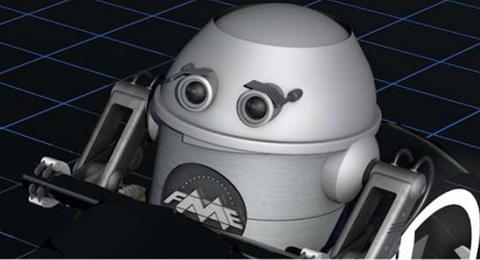
# Automations: Workflow Orchestration



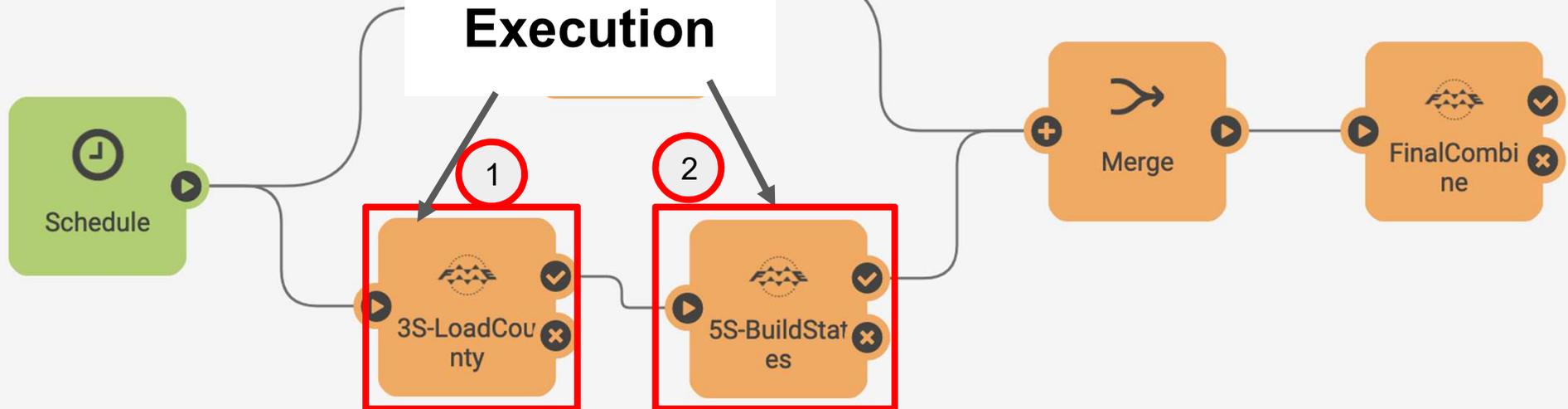
# Automations: Workflow Orchestration



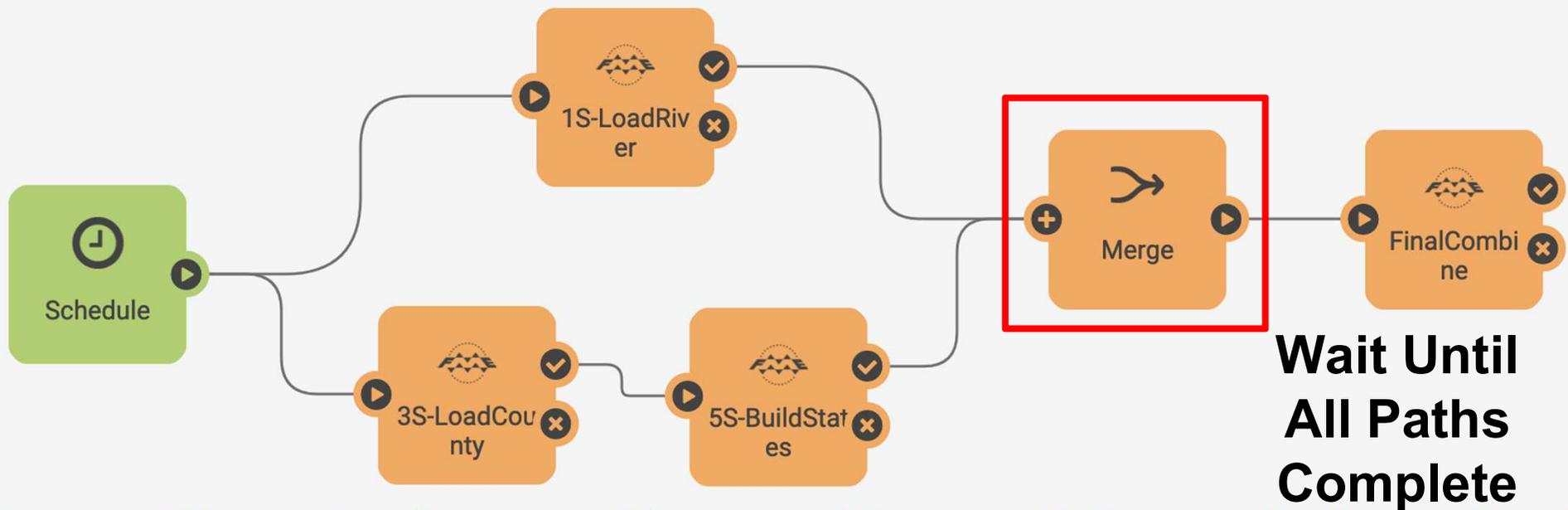
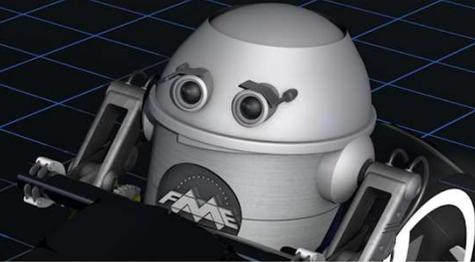
# Automations: Workflow Orchestration



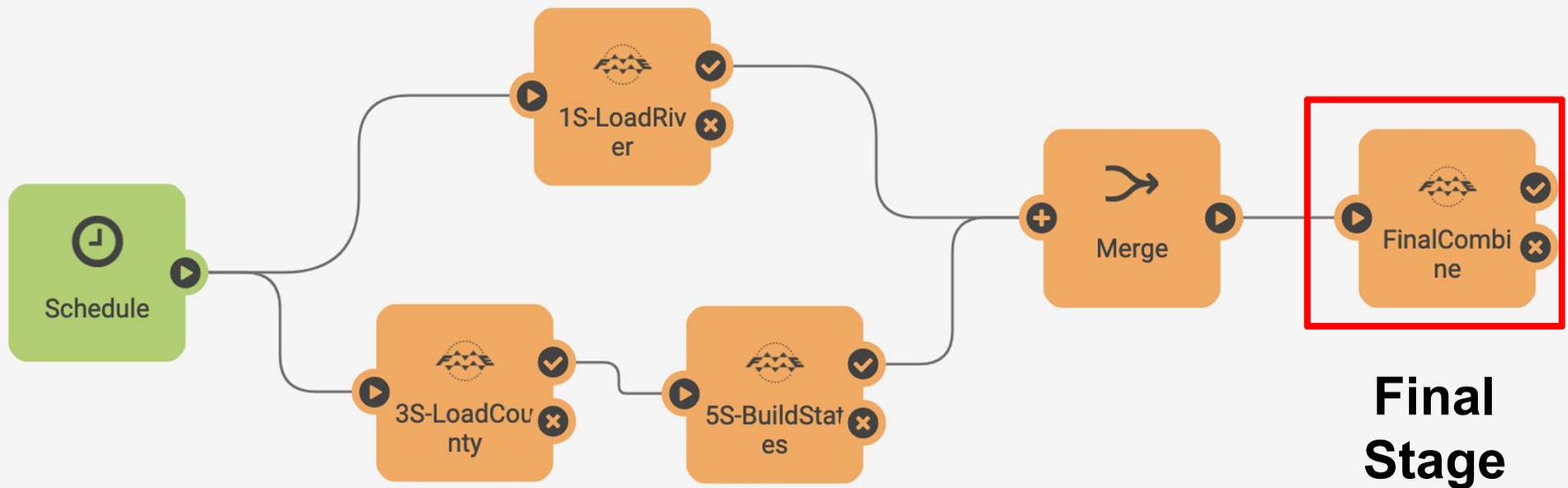
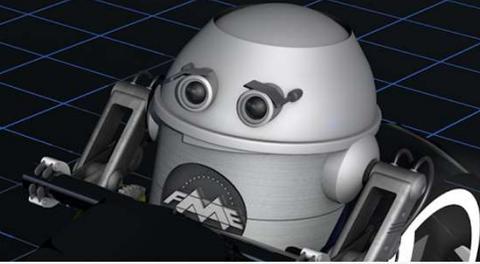
**Sequential Execution**



# 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*

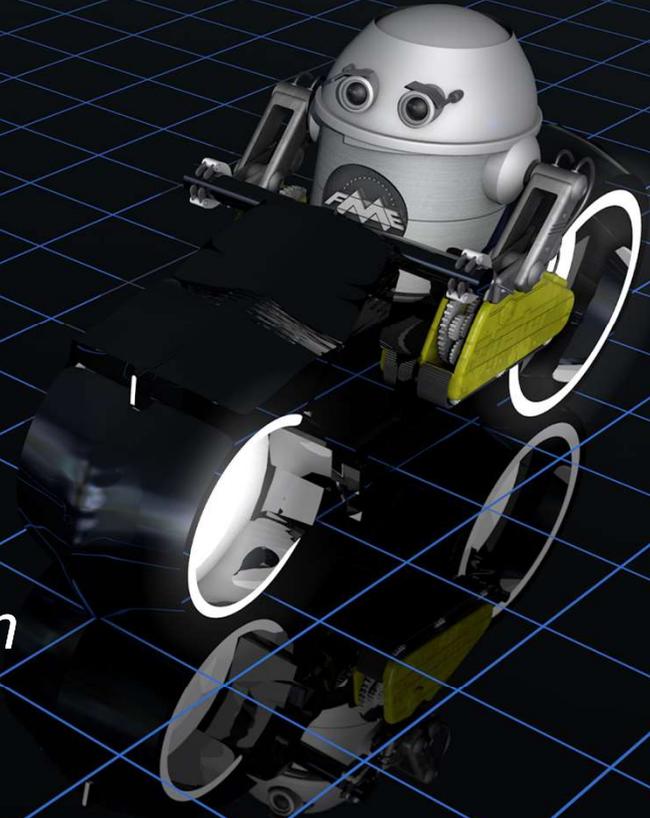
**Trigger Occurs**

*then*

**Perform Action**

# System Events & Automations

*Bring power to System Administration*





**Demo: Administrator Account Notification**

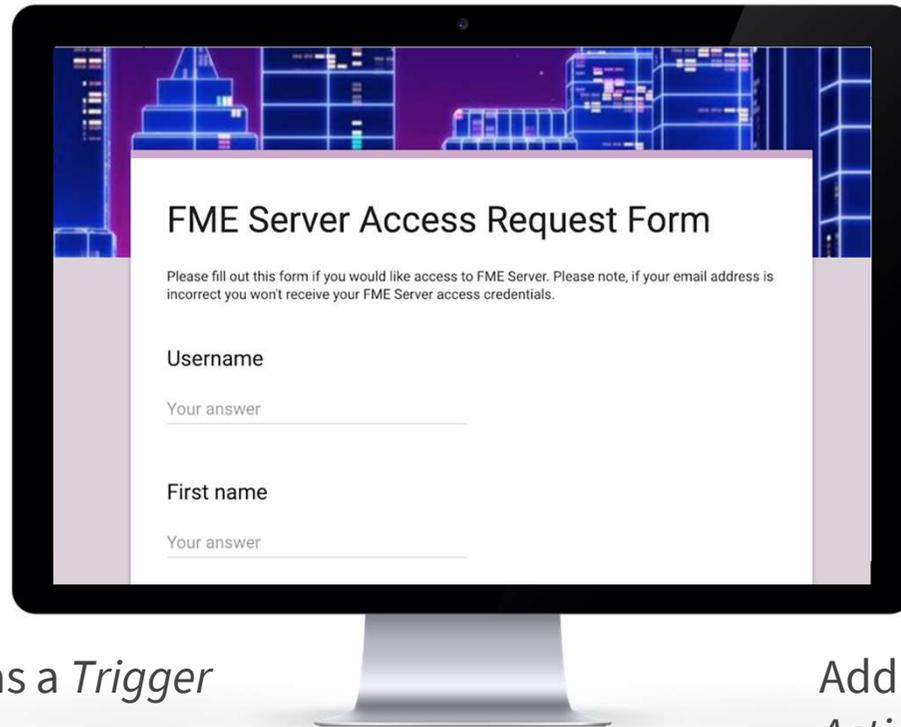
## Bonus Challenge

“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

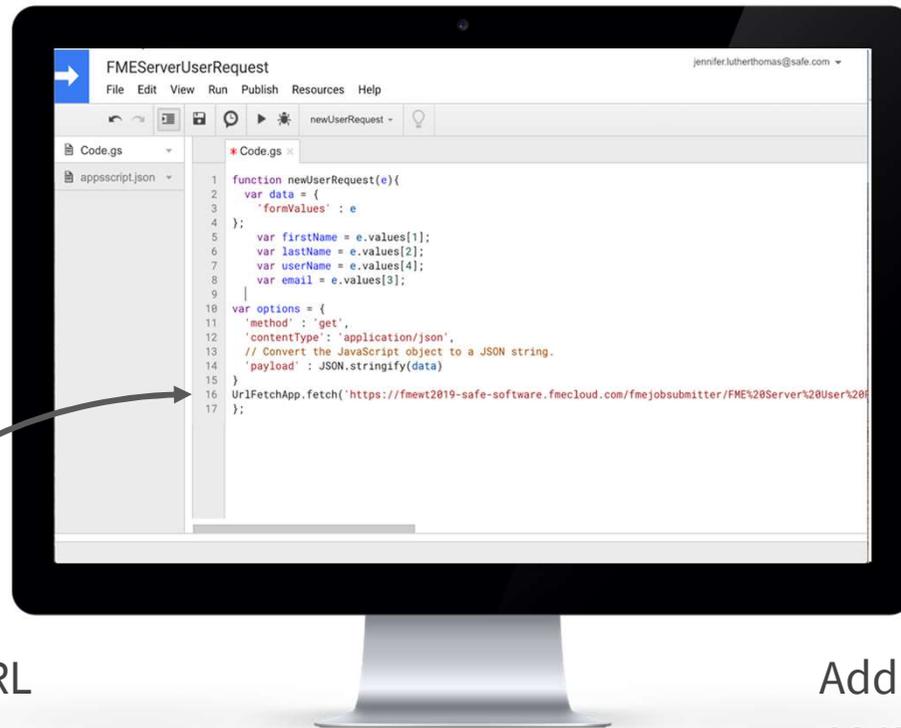


Add a Topic as a *Trigger*

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**

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

## **Automations**

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

## **System Events**

*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?