



Azure Data Factory

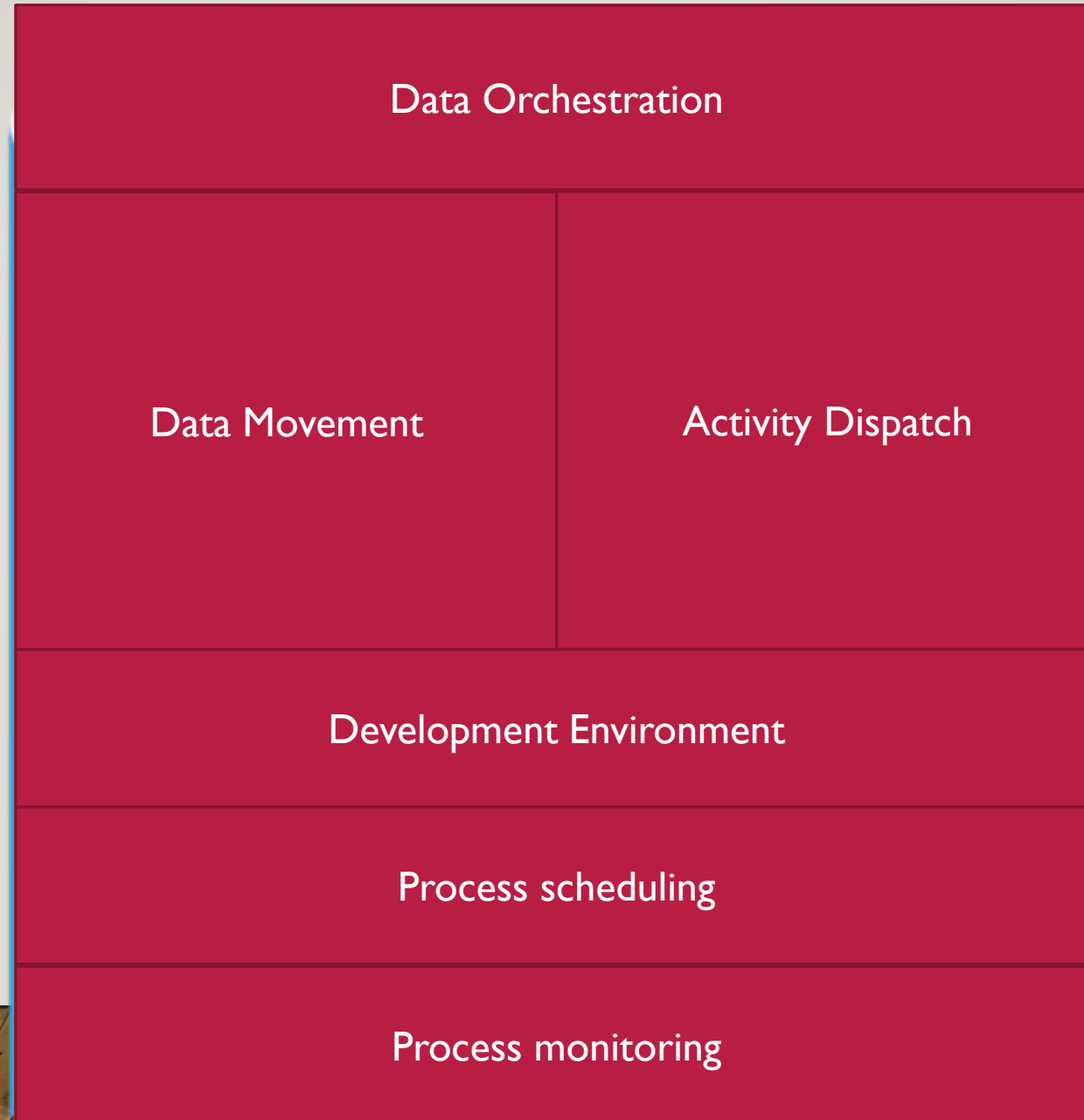
How to move data across Azure?

ABOUT ME

- Email: jerrold.stolk@motion10.com
- Experience: (Big) Data & Azure



WHAT'S IN IT?

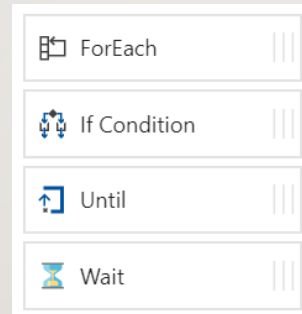
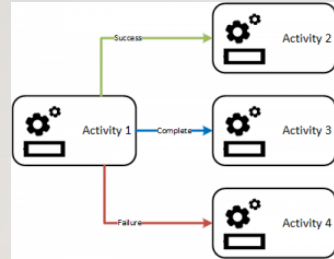




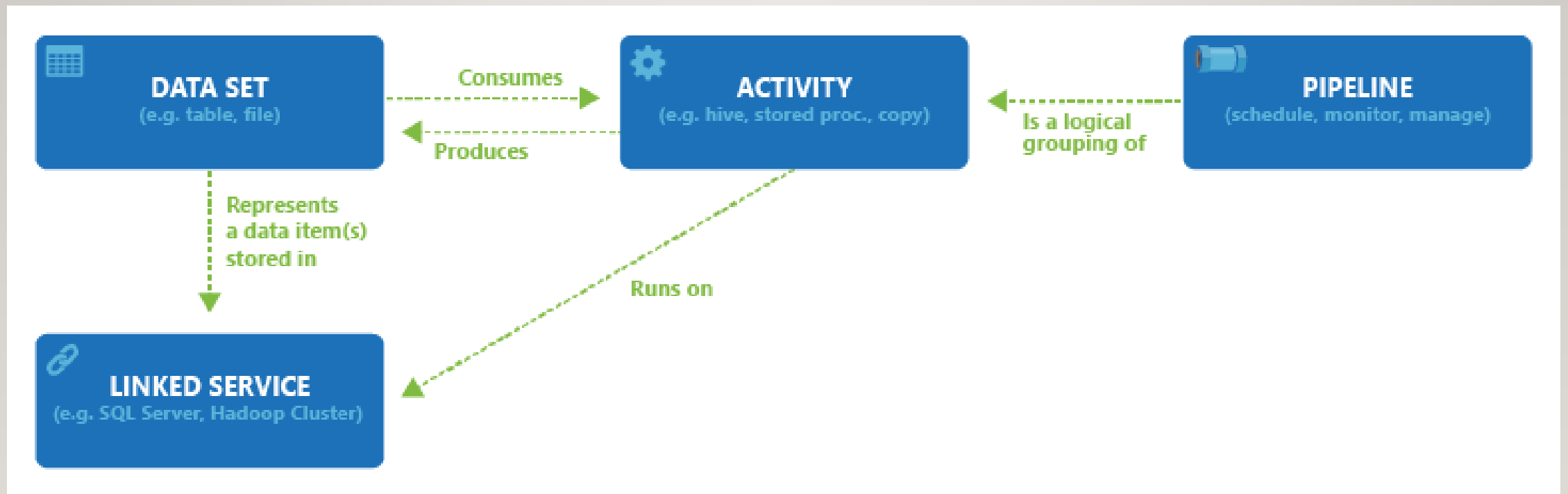
EXPERIENCES WITH DATA FACTORY?

DIFFERENCES BETWEEN V1 AND V2

- Branching
- Web UI
- Parameters and expressions
- (Scheduled) triggers
- Iteration & Conditional flows

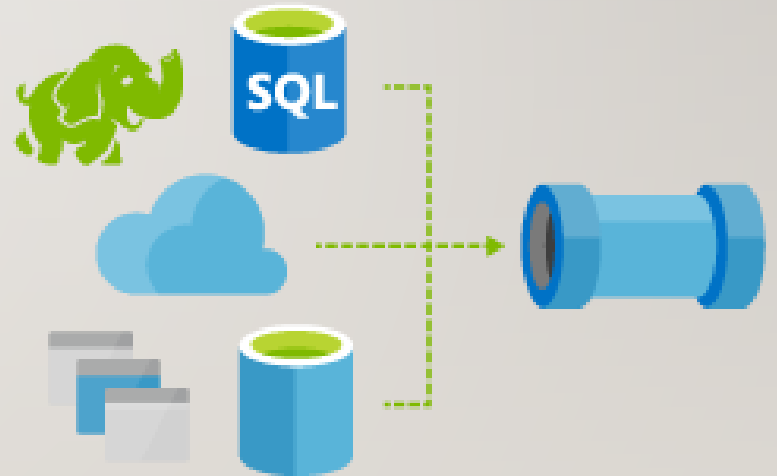
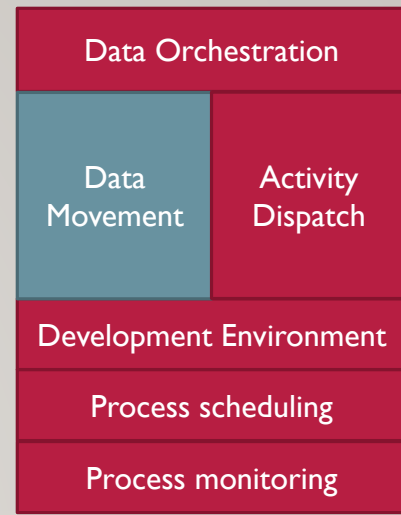


DATA FACTORY COMPONENTS



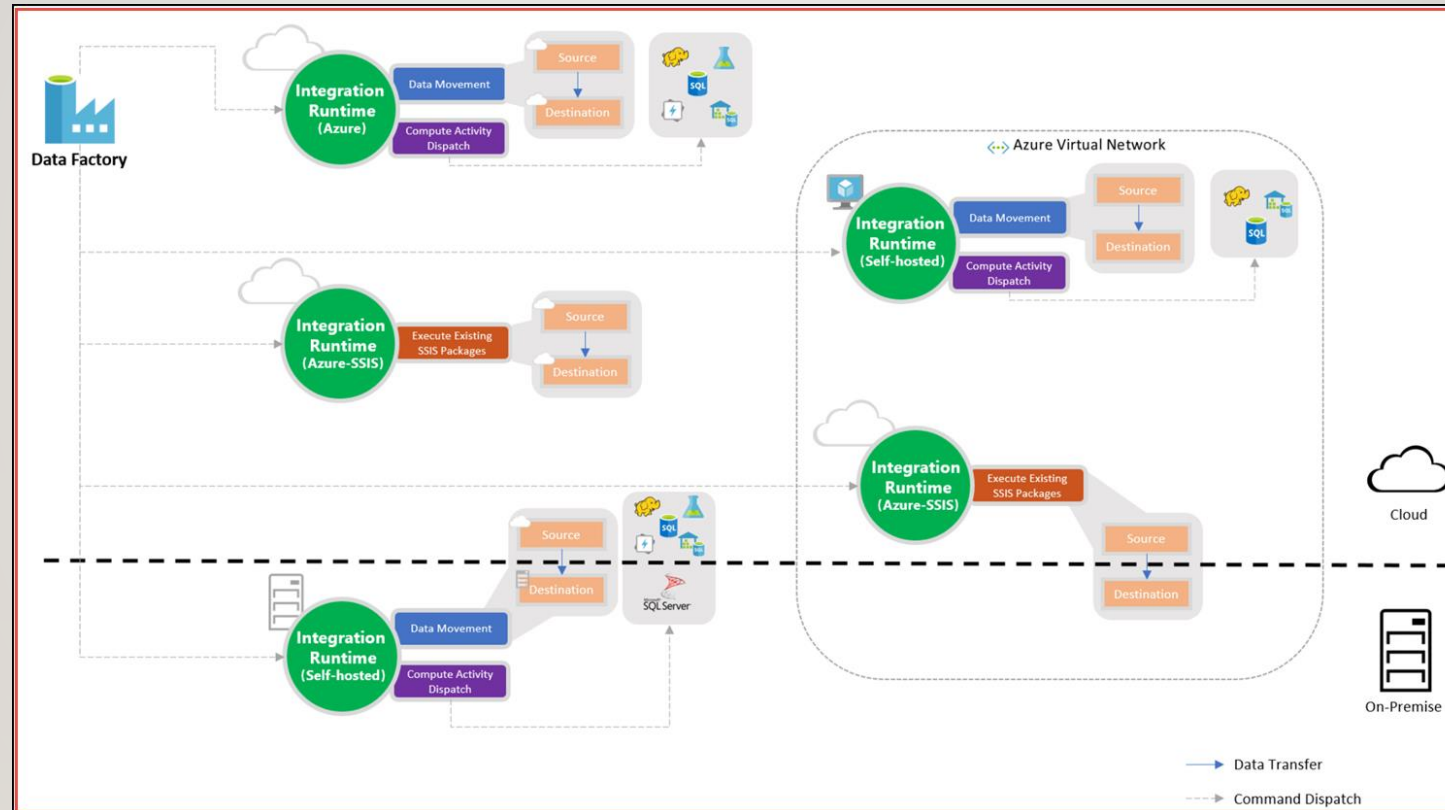
DATA MOVEMENT (I/2)

- Activity: Copy
- Various sources and sinks
- Supports variable datasets (Metadata based!)



DATA MOVEMENT (2/2)

- Integration Runtime



Data Orchestration

Data Movement

Activity Dispatch

Development Environment

Process scheduling

Process monitoring

ACTIVITY DISPATCH

- Executing activities on data

Batch Service

Custom

Databricks

Notebook

Data Flow

Data Lake Analytics

U-SQL

Lookup

Stored Procedure

Web

HDInsight

Hive

MapReduce

Pig

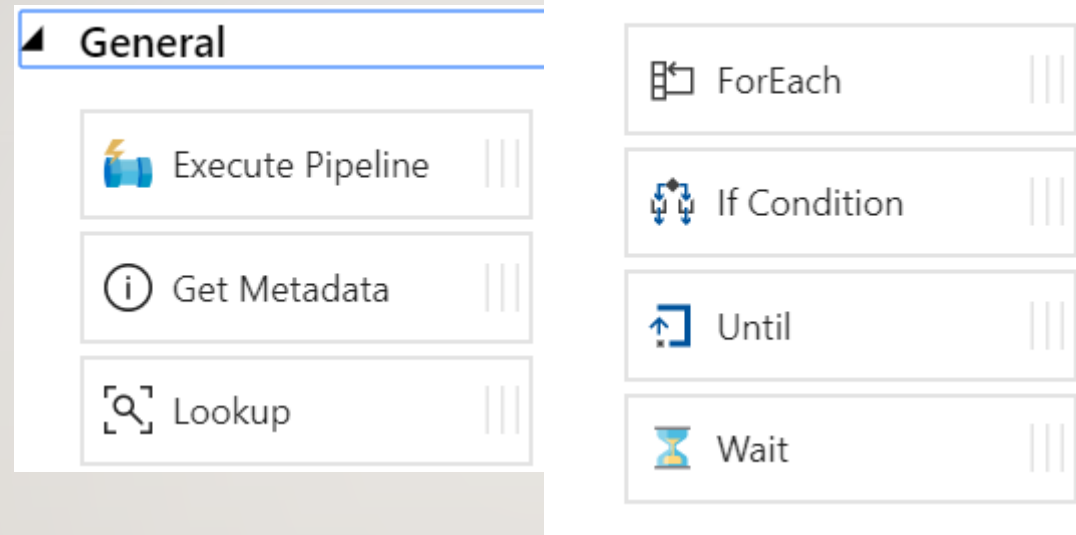
Spark

Streaming

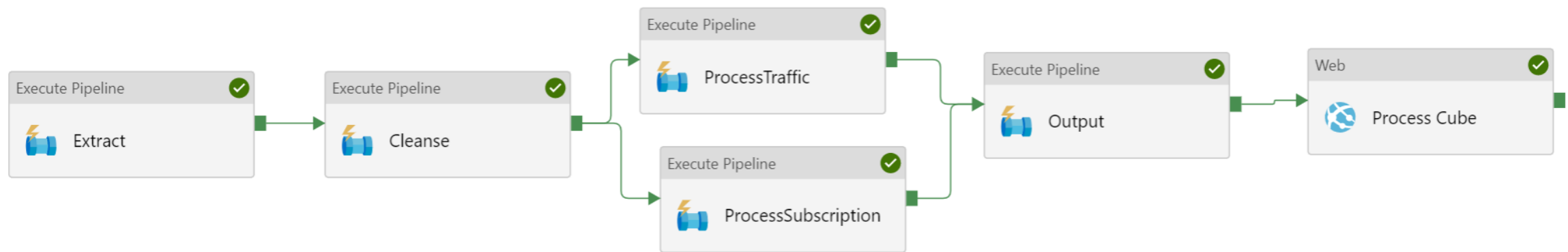
Data Orchestration	
Data Movement	Activity Dispatch
Development Environment	
Process scheduling	
Process monitoring	

ORCHESTRATION

- Planning it all

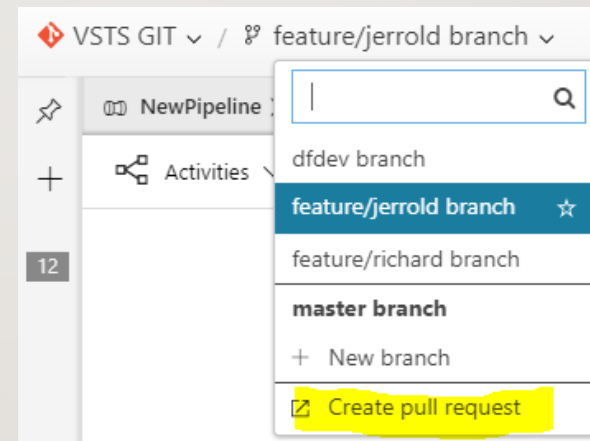
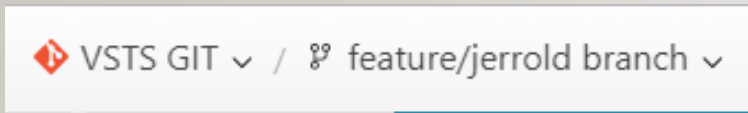


Data Orchestration	
Data Movement	Activity Dispatch
Development Environment	
Process scheduling	
Process monitoring	



DEVELOPMENT ENVIRONMENT (1/2)

- Integration with VSTS Git



Data Orchestration

Data
Movement

Activity
Dispatch

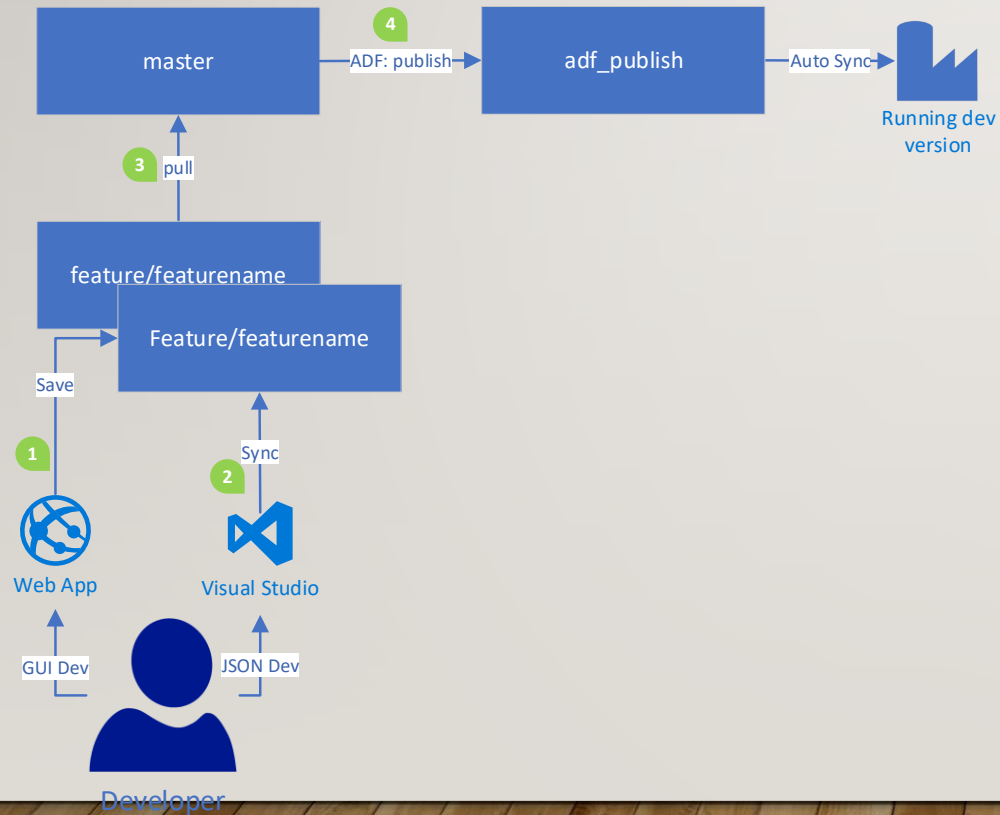
Development Environment

Process scheduling

Process monitoring

DEVELOPMENT ENVIRONMENT (2/2)

- Managing the development process



Data Orchestration

Data Movement

Activity Dispatch

Development Environment

Process scheduling

Process monitoring

SCHEDULING

- Planning it all

Start Date (UTC) *

03/23/2018 4:39 PM

Recurrence *

Monthly

▼

Every

1

Month(s)

▲

Advanced recurrence options

☒ Month Days

☐ Week Days

Select day(s) of the month to execute

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	Last			

Execute at these times

Hours (UTC)

Minutes (UTC)

Data Orchestration

Data
Movement

Activity
Dispatch

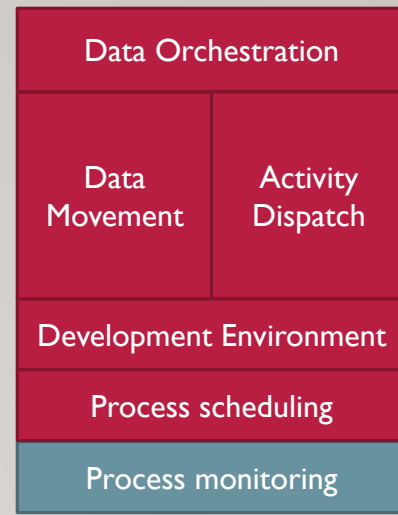
Development Environment


















Process scheduling

Process monitoring

MONITORING

- How does it run?
- Possibility for custom logging through diagnostic logs



Pipeline Name 	Actions	Run Start 	Duration	Triggered By	Status	Parameters	Error	RunID
Thuraya_4_Output	  ▷	03/06/2018, 11:11:17 AM	00:01:25	PipelineActivity	 Succeeded	[@]		8778a5d1-4682-497c-bb49-c0f9ed09f192
Thuraya_3_ProcessTraffic	  ▷	03/06/2018, 10:56:31 AM	00:02:08	PipelineActivity	 Succeeded	[@]		6acf5599-602f-4493-b397-b24152c9bd18
Thuraya_3_ProcessSubs...	  ▷	03/06/2018, 10:56:31 AM	00:14:44	PipelineActivity	 Succeeded	[@]		f11d0330-5b30-4f20-8362-33e18478057e
Thuraya_2_Cleanse	  ▷	03/06/2018, 10:53:04 AM	00:03:25	PipelineActivity	 Succeeded	[@]		e1cf4c49-22ce-491d-a3bd-9d06db88ac29
Thuraya_0_MasterPipeli...	  ▷	03/06/2018, 10:53:03 AM	00:19:41	Manual trigger	 Succeeded	[@]		4d1152d4-3cb1-445d-a131-96de92a5fc1f

DEMO TIME!

Case:

Fabian

Did anybody try to make a map of our Trip?

×

AllmäntAvanceratÖverföringsinställningarTeckenuppsättning

Värd:

steckmaestro.ddns.net

Port:

777

Protokoll:

SFTP - SSH File Transfer Protocol

Inloggningstyp:

Fråga efter lösenord

Användare:

sailingcrew

Lösenord:

Bakgrundsfärg:

Ingen

Kommentarer:

DEMO TIME!

