




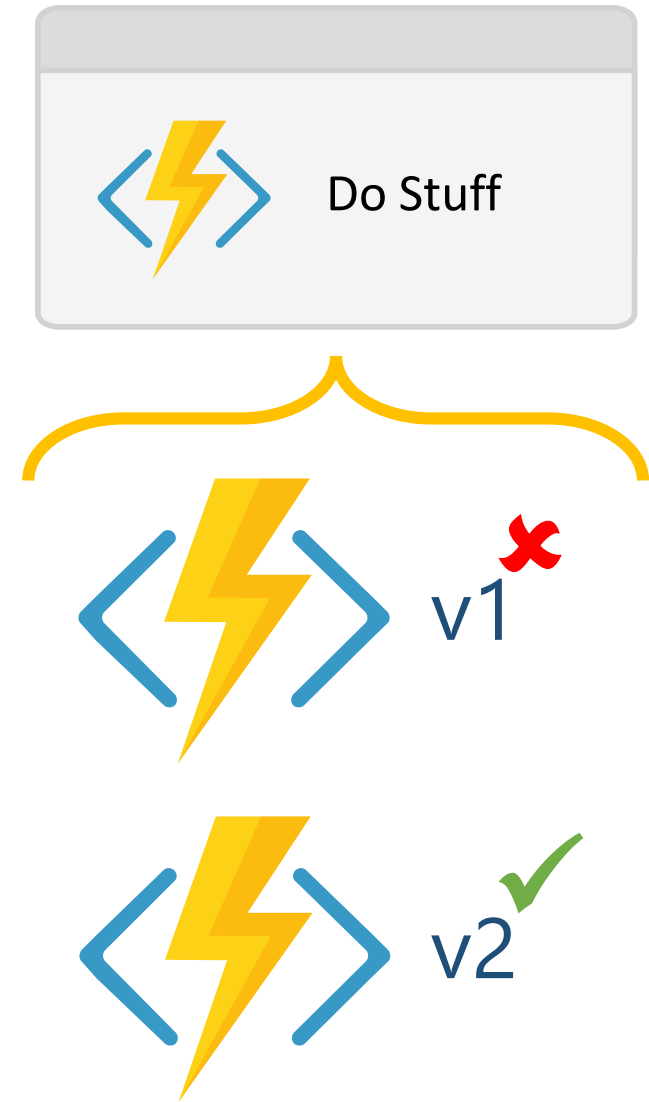
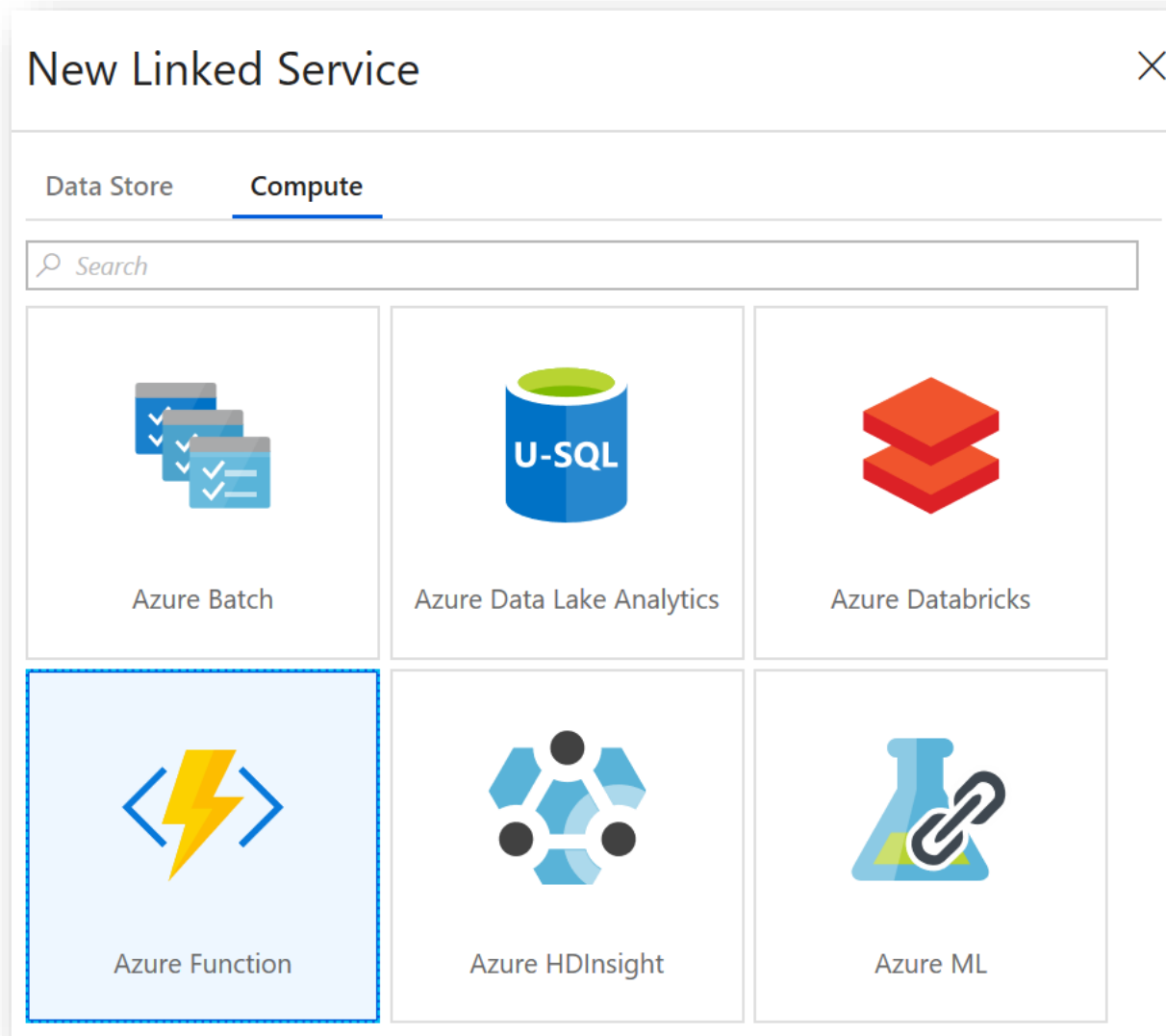
Module 3: Data Factory Extensibility

- Azure Functions
 - Web Activities vs Web Hook Activities
 - Custom Activities
- 

Azure Functions with Data Factory

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Hitting Azure Functions



Web Activities vs Web Hook Activities

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Web Hook vs Web Activity



PUT
POST
GET
DELETE

POST

1 Minute Timeout

Configurable Timeout

Retry Capabilities

No Retry




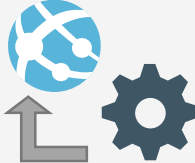

Linked Services
Datasets

No Artifact Support

One Way Call

Call Back URL

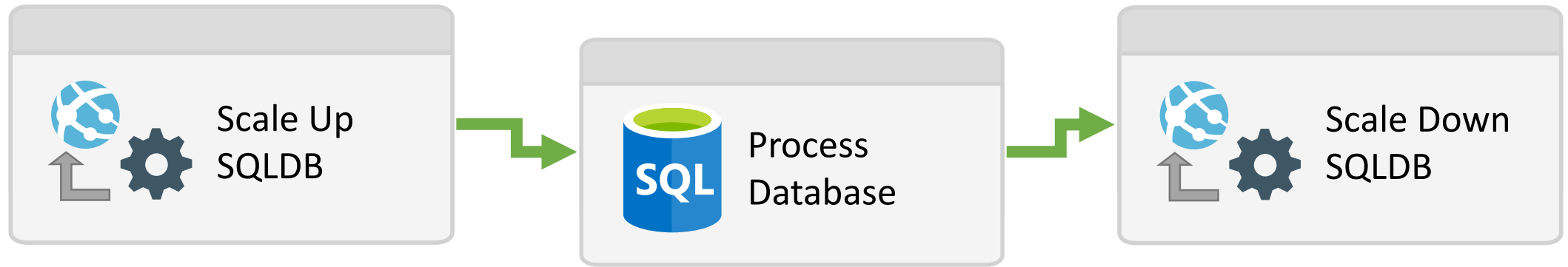
Web Hook vs Web Activity

Asynchronous  Web	Synchronous  Web Hook
PUT POST GET DELETE	POST
1 Minute Timeout	Configurable Timeout
Retry Capabilities	No Retry
 Linked Services Datasets	No Artifact Support
One Way Call	Call Back URL

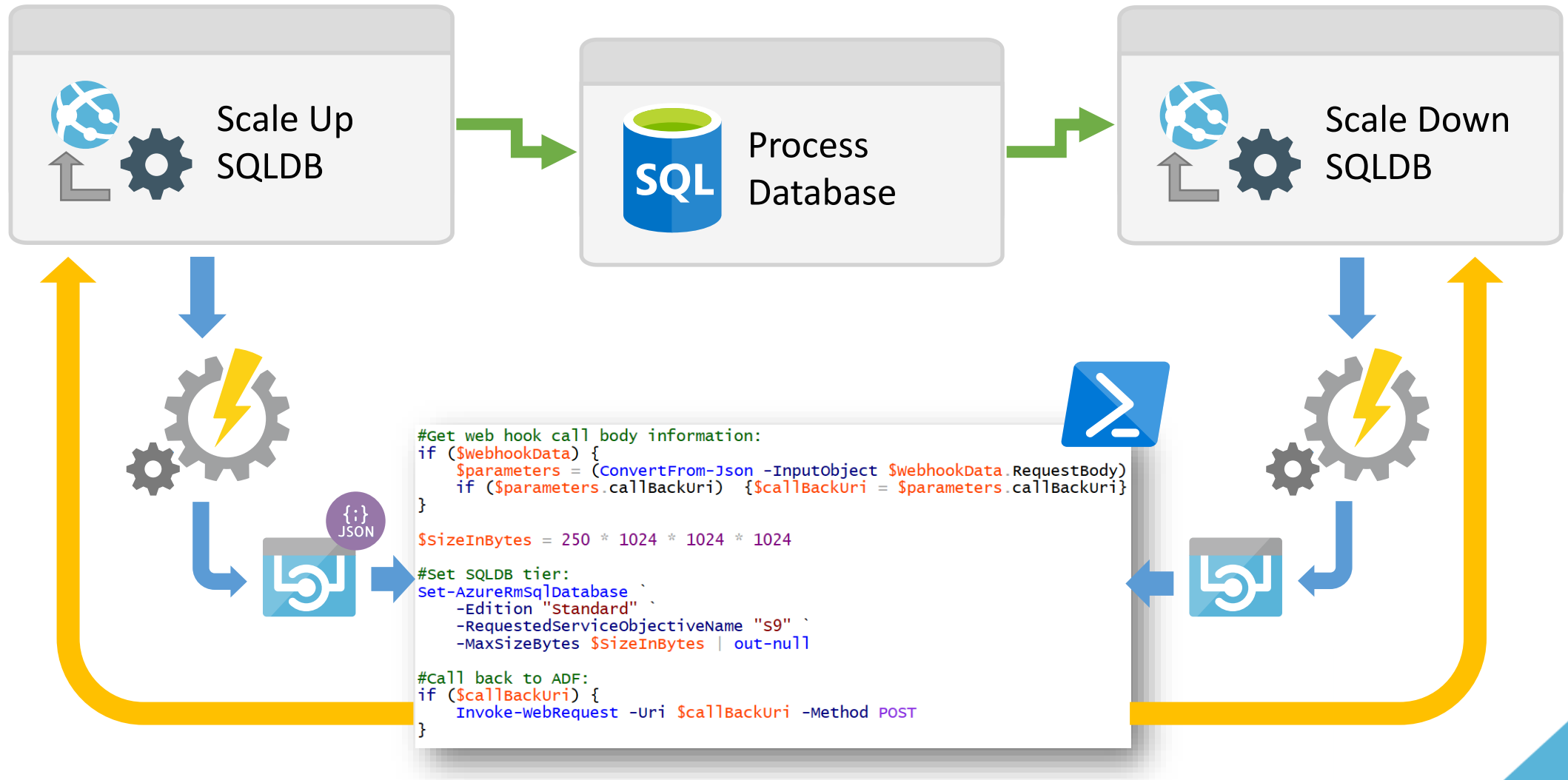
Web Hook vs Web Activity



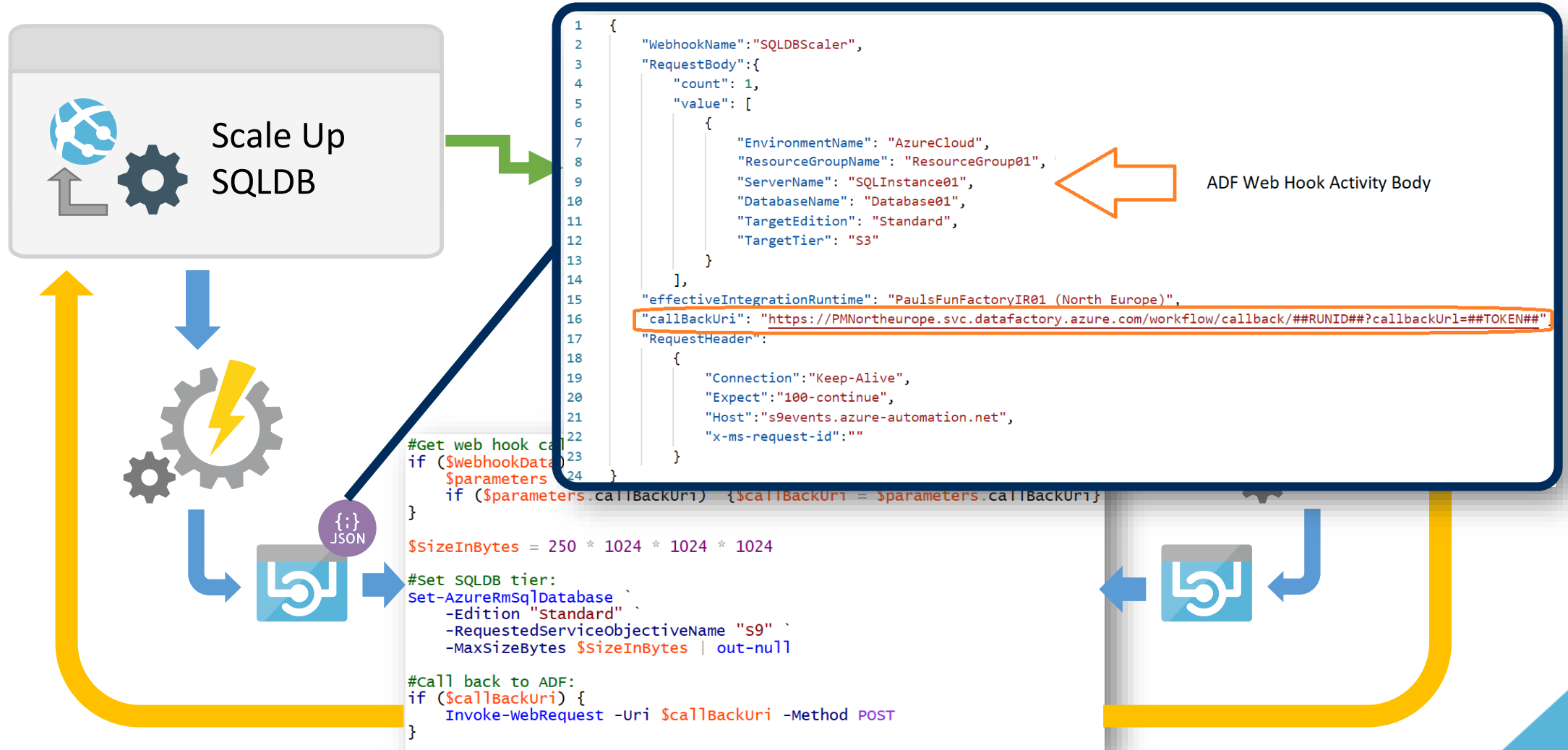
Web Hook vs Web Activity



Web Hook vs Web Activity



Web Hook vs Web Activity

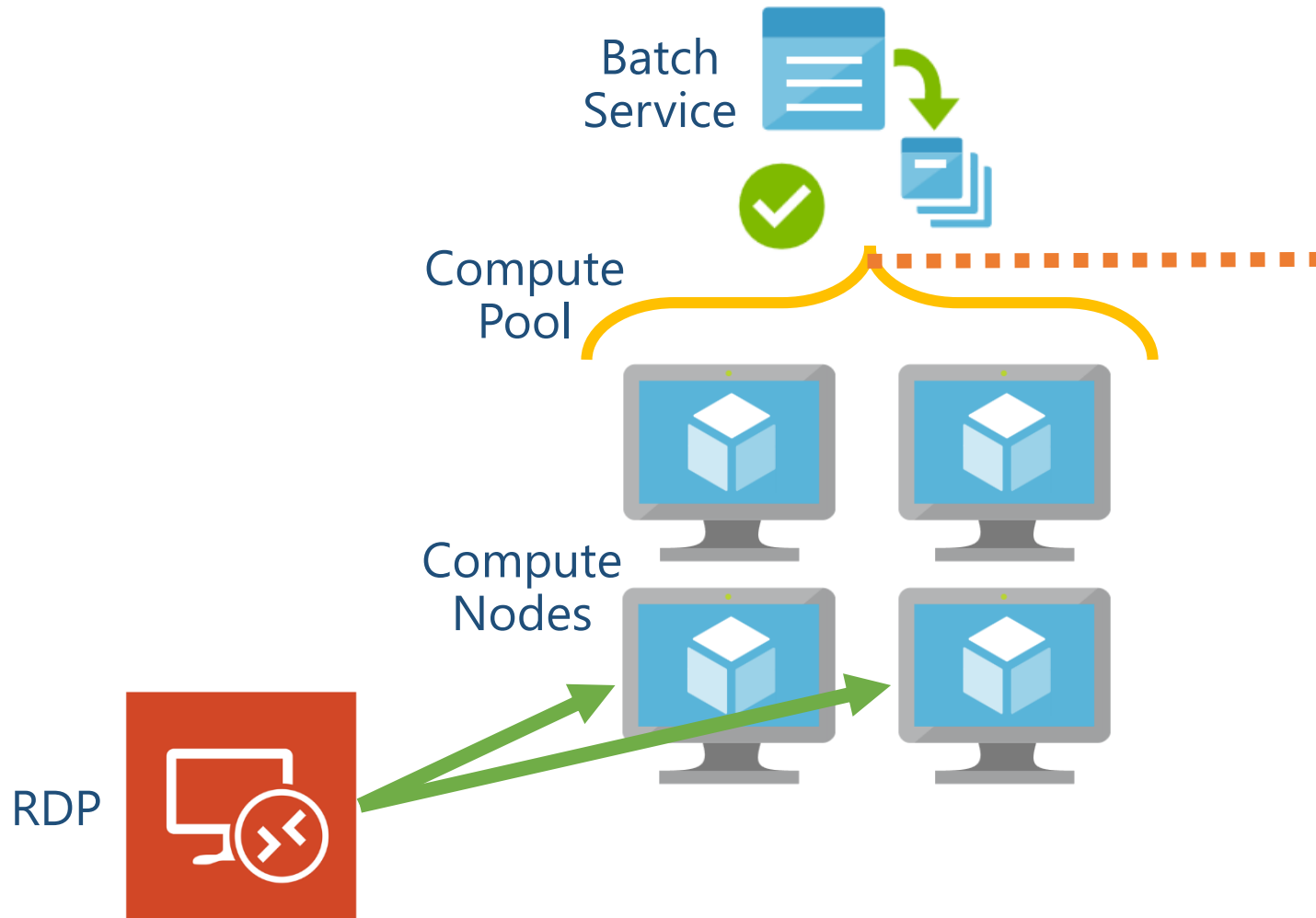


Custom Activities

ADF Extensibility

1

Custom Activities – A .Net Console App Executed Using Azure Batch Service



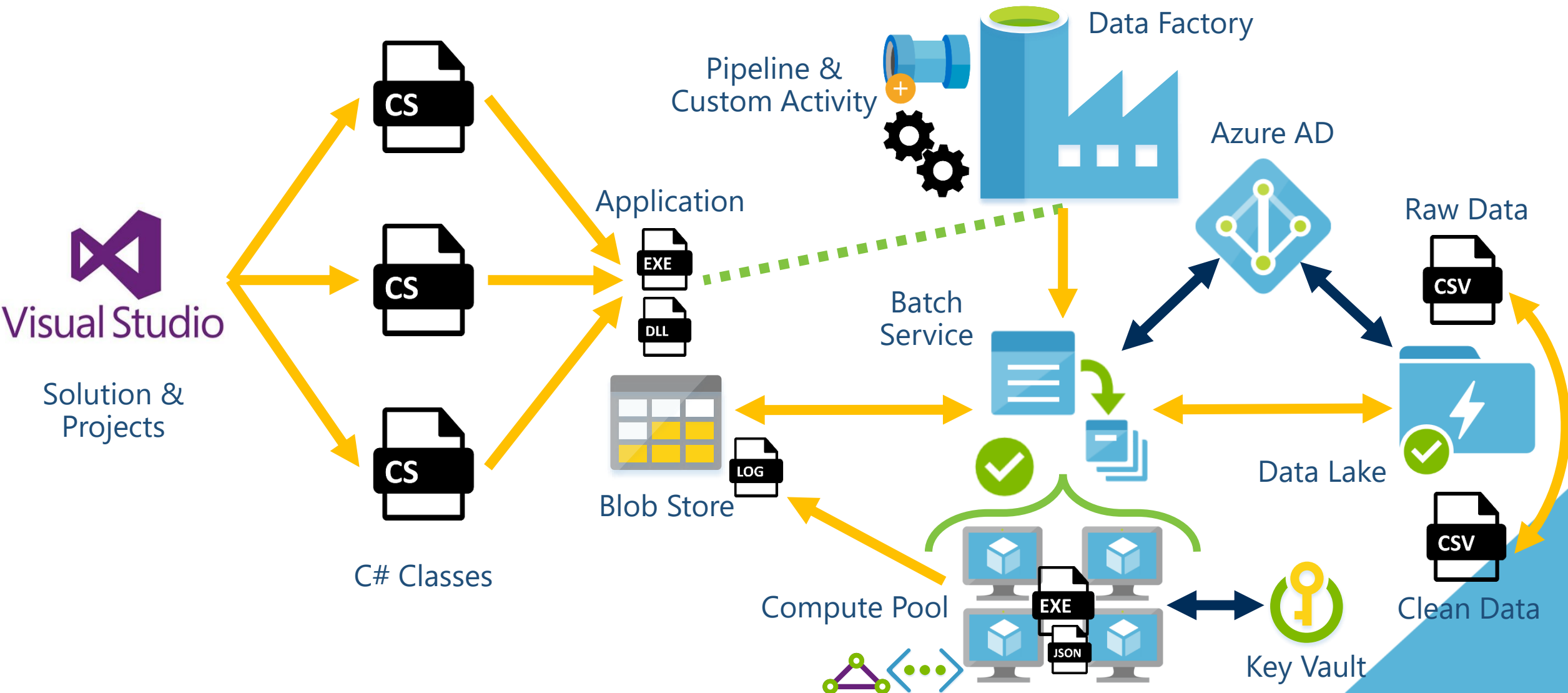
VM node size set per compute pool:

A1 Standard	A2 Standard	A3 Standard
1 Cores	2 Cores	4 Cores
1.8 GB	3.5 GB	7 GB
1 TB OS disk size	1 TB OS disk size	1 TB OS disk size
70 GB Resource disk size	135 GB Resource disk size	285 GB Resource disk size
2 Max data disk	4 Max data disk	8 Max data disk
Unable to display pricing	Unable to display pricing	Unable to display pricing

- ▶ 1 compute node = 1 virtual machine.
- ▶ 1 job per compute node.
- ▶ Max of 4 tasks per node.
- ▶ OS on D drive, not C.
- ▶ Special environment variables.

ADF Extensibility Continued

1 Custom Activities – A .Net Console App Executed Using Azure Batch Service



Extending Data Factory Conclusions

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What and How Much Compute?



Do Stuff

10 minutes execution



Custom
Activity

Auto scale out compute



Web

Asynchronous calls



Web Hook

Synchronous calls

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