

Azure Data Integration Pipelines

Fundamentals to Level 300

Paul Andrew | Technical Architect in Azure CoE





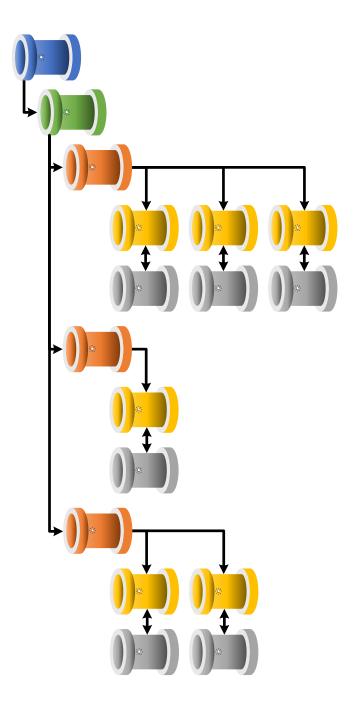




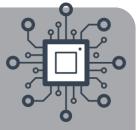








About Me



Paul Andrew is a Microsoft Data Platform MVP and Technical Architect within the Avanade Centre of Excellence team, with over 15 years' experience in the industry, working as an engineer and solution architect. Day-to-day Paul is accountable for delivering enterprise grade data insights to international organisations where he wields the complete stack of Azure Data Platform resources. Paul leads delivery teams around the globe implementing the latest design patterns, creating architectural innovations, and defining best practice to ensure technical excellence for customers across a wide variety of industry verticals. Paul is passionate about technology, which is demonstrated in the community, he speaks at events and shares his knowledge gained from real world experience through his blog. Paul maintains the view that his job is also his hobby and doesn't ever want to take his fingers off the developer's keyboard while maintaining a growth mindset.

Husband, father of three, Star Wars and Lego fan. Run's, swims, plays darts. Enjoys doing geeky things to support home automation and electricity generation.







mrpaulandrew.com/about

Summary





Talks Delivered	Total Auidence	Average Auidence	Countries	Cities	Event Types
128	7033	54.95	12	31	30





- Software Development

Technical Leadership

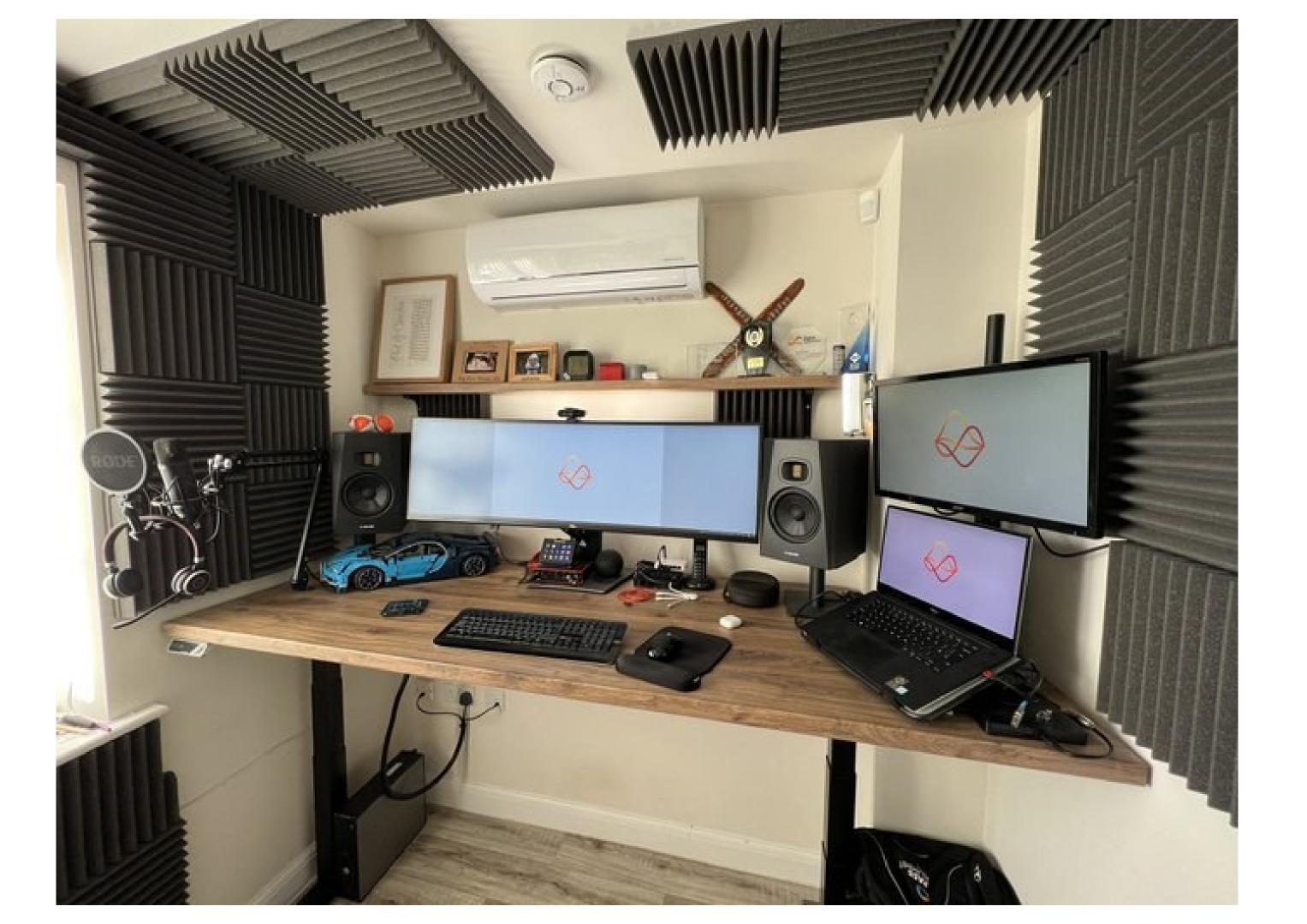
Data Platform Architecture Solution Delivery Lead

Data & Test Engineer

Data Strategy

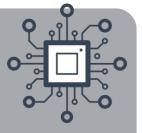
Release Management











What do you want to get out of this session?

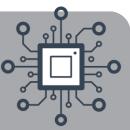
menti.com

2289 2123





Azure Data Integration Pipelines



An Architects Recap

 \mathbb{I}

		Full Day Wo	rkshop –			
010	Module	1: <u>Pipeline Fundamentals</u>				
	000	The History of Azure Orchestration				
	000	Synapse Analytics vs Data Factory				
	000	Integration Components				
		Common Activities				
	000	Execution Dependencies				
010	Module 2: Integration Runtime Design Patterns					
	000	Compute Types				
		DD Azure				
		DD Hosted				
		OD SSIS				
	000	Patterns & Configuration				
Module 3: Data Transformation						
	000	Data Flows				
	000	Power Query Injection				
		Spark Configuration				
		Use Cases	<< BREAK			
	Module 4	4: <u>Dynamic Pipelines</u>	10:30 – 10:45			
		Expressions & Interpolation				
Simple Metadata Driven Execu			ion			
		Dynamic Content Chains				
	010	Reference Names				

am	er	ntals to Level 300				
Module 5: Pipeline Extensibility						
	011)	Azure Batch Service				
	011	Pipeline Custom Activities				
	011)	Azure Management API				
		Azure Functions				
Lab	S					
	010	Creating Resources DD Publish & Monitoring				
	011	Building A Copy Pipeline	napse			
	011	Reusable Code				
		o de la companya de				
Мо	dule (<< LUNCH e 6: Execution Parallelism				
		Control Flow Scale Out $13:00 - 13:45$				
		Concurrency Limitations				
		Internal vs External Activities				
		Orchestration Framework - <u>procfwk.com</u>				
Мо	dule :	e 7: VNet Integration				
		Private Endpoints				
		Managed VNet's				
		Firewall Bypass				

Module 8: Security							
DD Service Principals							
Managed Identities							
Azure Key Vault Integration							
Customer Managed Keys							
D Pipeline Access & Permissions							
Module 9: Monitoring & Alerting		<< BREAK					
DD Studio Monitoring		15:00 – 15:1					
DD Log Analytics & Kusto Queries							
D Operational Dashboards							
DD Advanced Alerting							
Module 10: Solution Testing							
Development Time Validation							
DD Test Coverage							
DD NUnit Tests							
Module 11: CI/CD							
🕮 Source Control vs Developer U	I						
D Basic ARM Template Deployme	ents						
Advanced Deployment Pattern	ıS						
Module 12: Final Thoughts	Module 13: Bonu						

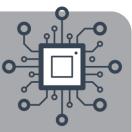
Costs & Conclusions

Best Practices

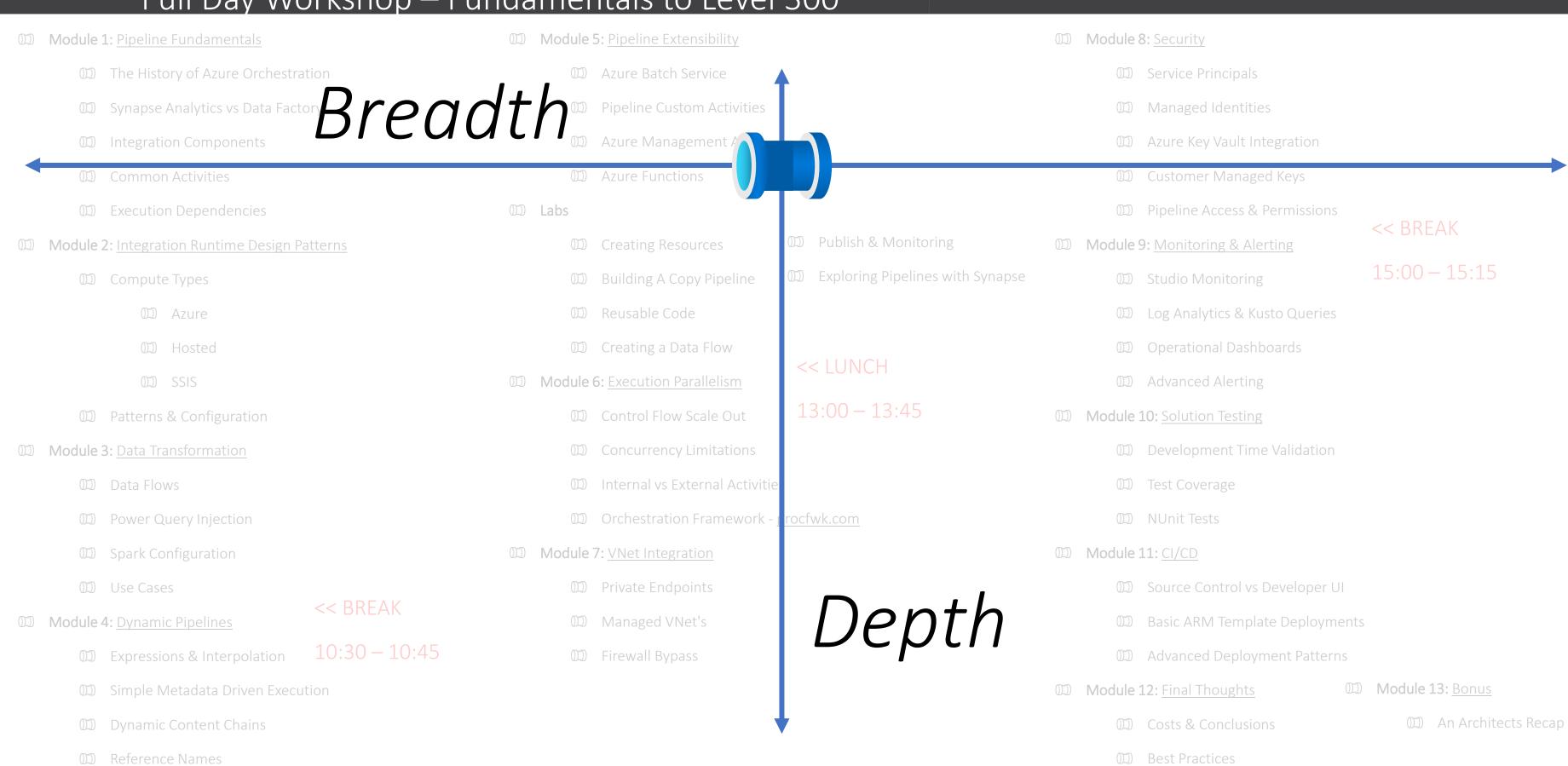
 \mathbb{I}

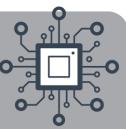


Azure Data Integration Pipelines



Full Day Workshop – Fundamentals to Level 300









https://github.com/mrpaulandrewltd

