

Video On-Demand

with Azure Media Services



Ken Muse @atlantabass Microsoft Azure MVP Microsoft ALM | DevOps Ranger



About Me

Consulting Director at Wintellect



Consulting
Custom software application development & architecture



Instructor Led Training
Microsoft's #1 training vendor in DevDiv



On-Demand Training
World class, subscription-based online training









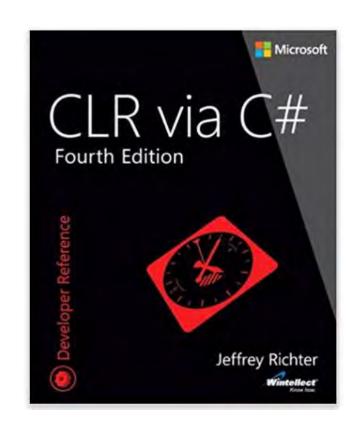


Microsoft ALM | DevOps Ranger Microsoft Azure MVP Microsoft Azure Advisor P-CSA / MCSE / MCT





Industry Influencers We wrote the book (over 30 of them)









Some Highlights

- Gold Cloud Platform and Gold DevOps Partner
- Multiple MVPs, ALM | DevOps Rangers, and Azure Advisors
- 2018 IAMCP Worldwide and US Gold Partner of the Year
- CEO is Microsoft Regional Director (RD) for Atlanta
- Microsoft Al Inner Circle Partner
- Microsoft ALM Inner Circle Partner
- Xamarin Premier Consulting Partner with multiple Xamarin Certified Engineers
- Other: Visual Studio Integration Partner, MVP of the Year, and more...





What to Expect

- How it works
- The manual process
- Automating with Functions and Event Grid





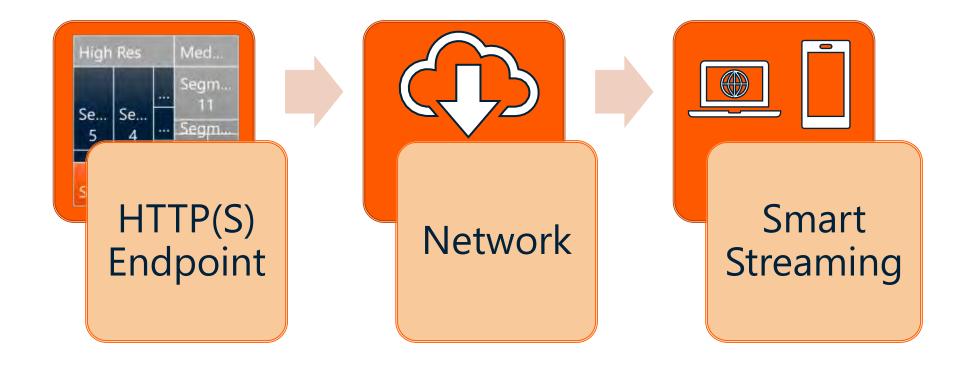
Why do we care?







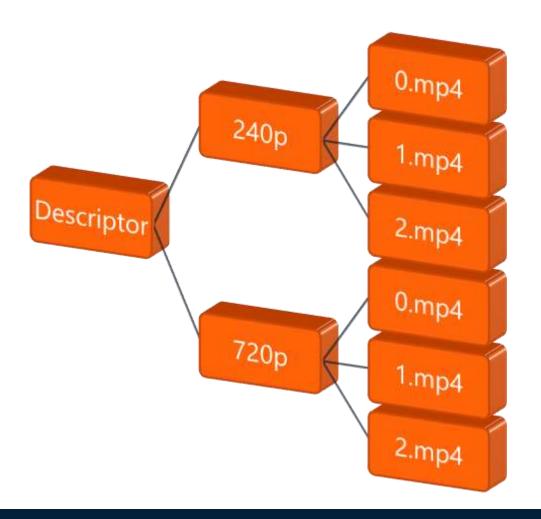
The Basics







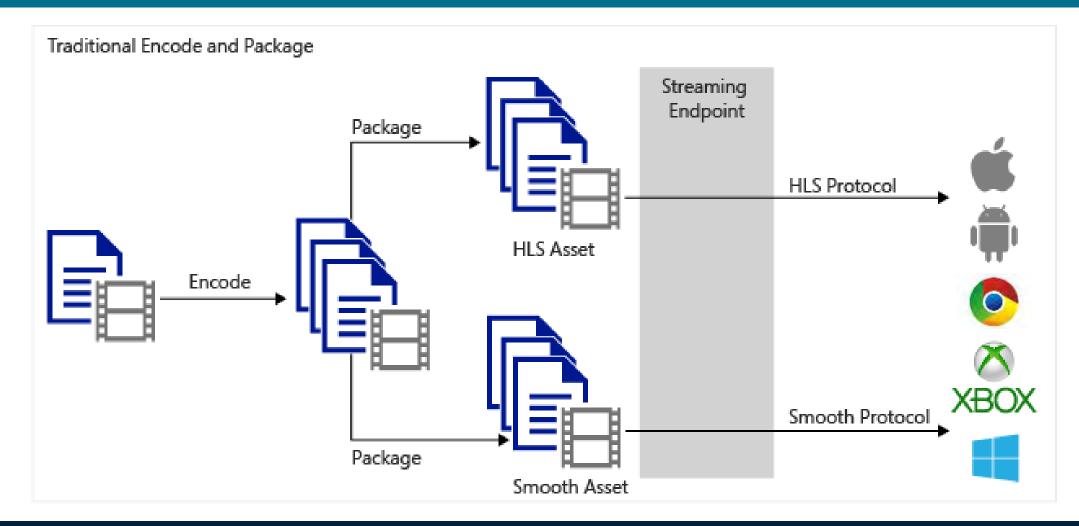
Media Files







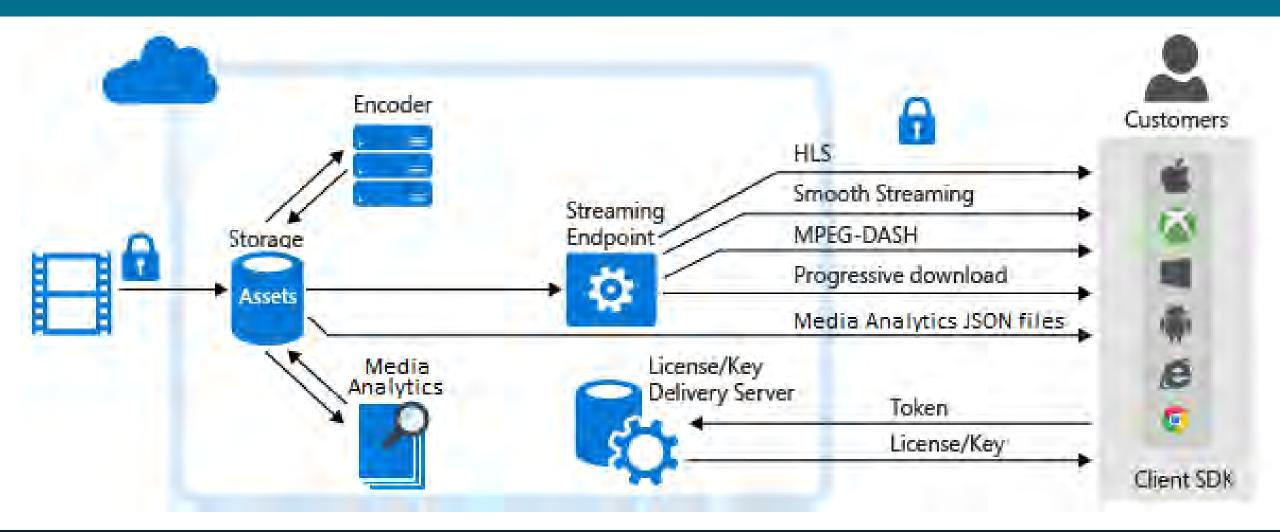
Traditional Publish







Azure Media Services







The Workflow



Single Bitrate (mezzanine)



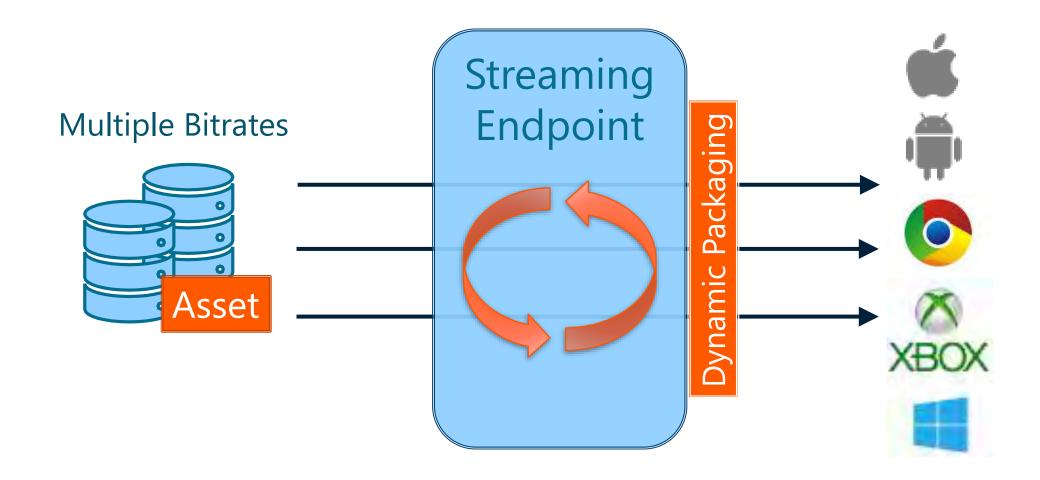
Multiple Bitrates







Publication



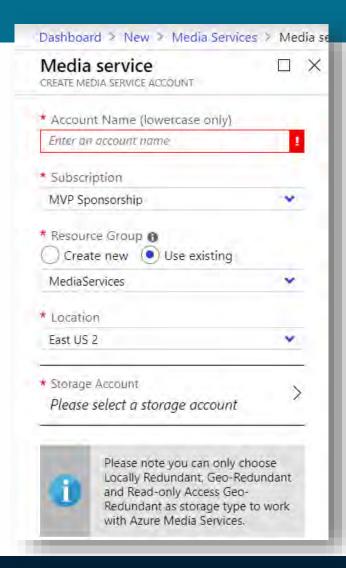




Getting Started











Account Setup

az ams account sp create --account-name media --resource-group mediaservices

```
"AadClientId": "00e93d9a-60ef-4c14-a9eb-b645c024eec3",
"AadEndpoint": "https://login.microsoftonline.com",
"AadSecret": "b0ea2cba-3927-445b-b8d2-a78470b26371",
"AadTenantId": "92f5f5ea-3209-41e4-acfb-3b39b950666b",
"AccountName": "media",
"ArmAadAudience": "https://management.core.windows.net/",
"ArmEndpoint": "https://management.azure.com/",
"Region": "East US 2",
"ResourceGroup": "mediaservices",
"SubscriptionId": "e1f11d50-fd47-46c9-9d58-7f453414b804"
```







Azure Media Services Explorer v3

https://bit.ly/2WsqBY6







Let's Get Automated!





Azure Functions

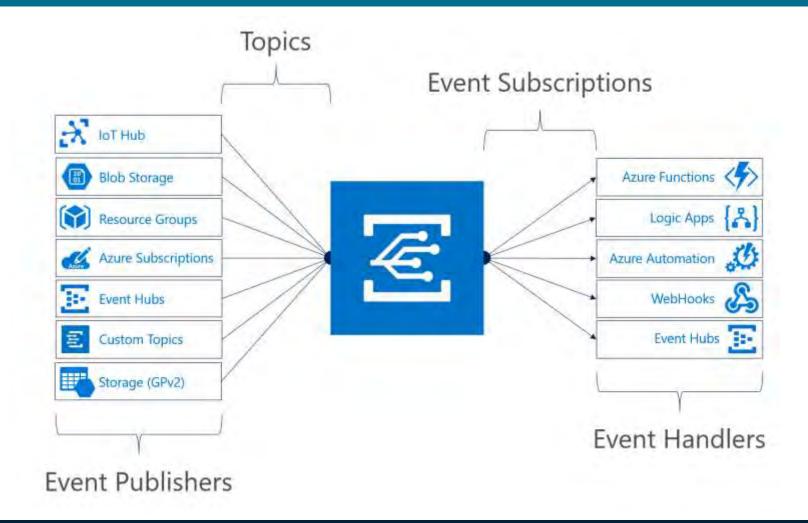
- Serverless, highly available and scalable architecture
- Suitable for trigger based action.
- Reactive programming model
- On-demand scale







Event Grid







The Process

Upload Trigger: Create Create Blob Blob Job Asset Finish Notify Trigger: Create **Event Grid** Locator







Functions & Event Grid





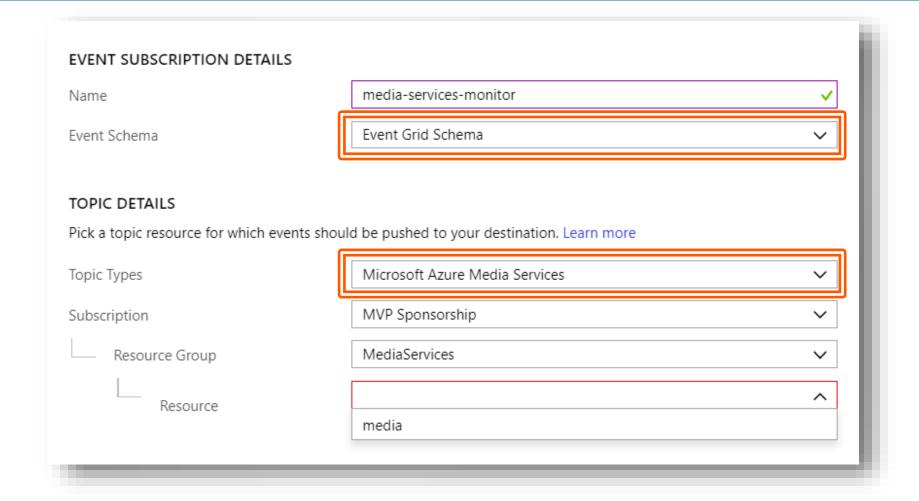
Connecting To Event Grid







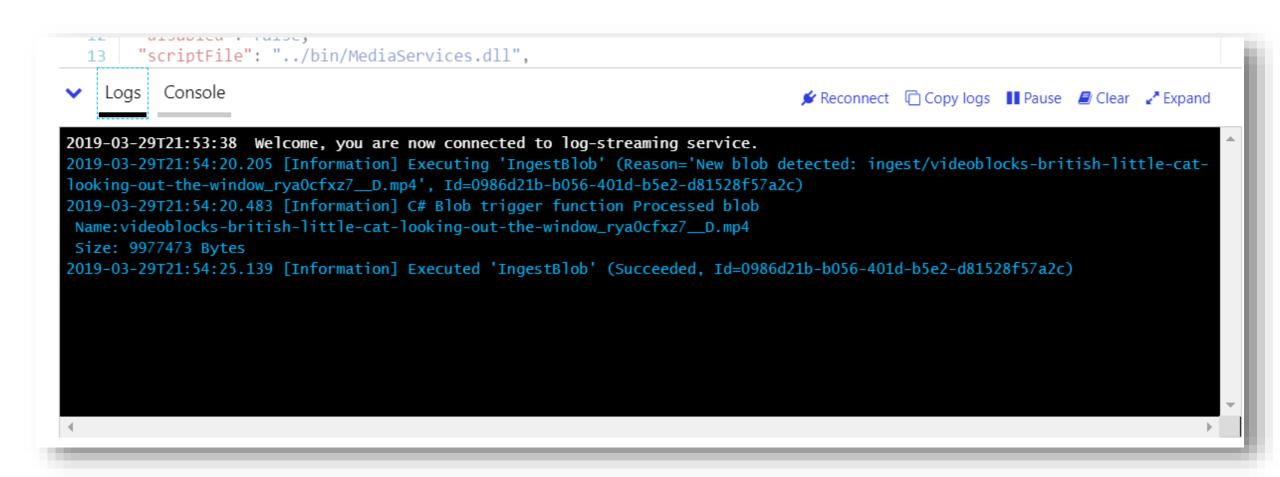
Configuring Event Grid







Ingestion







Monitoring

```
Console
                                                                                  🖋 Reconnect 🗋 Copy logs 🔢 Pause 🗐 Clear 🛂 Expand
  'previousState": "Processing",
  "state": "Finished",
  "correlationData": {}
2019-03-29T21:57:18.075 [Information] Executed 'MonitorEncoding' (Succeeded, Id=ca012c73-0072-4c47-baef-3d9fc8b4676c)
2019-03-29T21:57:18.086 [Information] Detected Job Output state change
2019-03-29T21:57:18.135 [Information] Publishing asset 'output-036a3acc-6108'
2019-03-29T21:57:18.153 [Information] Executed 'MonitorEncoding' (Succeeded, Id=daba5917-489f-4a82-84a0-ae2f8f183fb9)
2019-03-29T21:57:18.312 [Information] Executed 'MonitorEncoding' (Succeeded, Id=d21b2072-e744-49bd-be6f-8ffbf8d81ed6)
2019-03-29T21:57:19.494 [Information] streaminglocator-87dfb7ef-dc2f-48e5-ac7a-9225317fd722
2019-03-29T21:57:19.494 [Information] 87dfb7ef-dc2f-48e5-ac7a-9225317fd722
2019-03-29T21:57:19.495 [Information] Executed 'MonitorEncoding' (Succeeded, Id=842cf9a7-3d98-40ff-8409-56d138e96659)
2019-03-29T21:58:29 No new trace in the past 1 min(s).
2019-03-29T21:59:29 No new trace in the past 2 min(s)
```





More to Explore

- Traffic Manager
- Dynamic encoding and content protection
- Live-streaming channels





Questions?



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https://2mu.se/orlando2019



