Speaker: AM Grobelny

TypeScript fix a lot of the problems in JavaScript

**Dev Tools for working with .NET on AWS**

Microsoft Visual Studio has AWS extension now

AWS Explorer in Microsoft Visual Studio

AWS tools in MS VS

EC2 – can open SSH connection, pulls up a linux terminal

Easy to manage servers

Invoke Lambda in VS

**AWS Tools on PowerShell Core**

Easy to work with

**.NET CLI AWS Extensions**

**Writing Serverless .NET Apps**

**Serverless**

No servers to provision or manage

Scales with usage

Never pay for idle

Availability and fault tolerance built in

API provided by third-party could be considered as Serverless

Backbone of Serverless Architecture

Amazon API Gateway

Lambda

DynamoDB

SNS

SQS

Lambda is event-driven

DynamoDB = NoSQL

Provisioning throughput

Most event-driven architecture have queueing (FIFO)

SQS sent to SNS

**Targets**

SQS

SNS  
Elastic

How do I deserialize JSON?

Amazon.Lambda.Serializaition.Json.JsonSerializer

How do I structure my code?

Public string FunctionalHandler (string input, ILambdaContext context)

Razor Pages

AspNetCore = rewritten AspNet for different OS and comes with a server

NodeJS – single-threaded

C# - multi-threaded

AspNetCoreServer sits in front on Kestrel (included in LambdaEntryPoint)

No need to serialize or deserialize JSON

Cloud Formation – Infrastructure as Code, YAML (markup language)

AWS SAM (Serverless Application Markup)

Static page stored in S3 and communicate with AJAX

Kinesis is great for streaming data.