**How to use multiple AI Services with Functions**

**Introduction**

Artificial Intelligence (AI) is becoming the ultimate technology that we apply in our daily routines. Each day we get benefit from AI tools with search recommendations, image detection and so on. We are on the verge of an era where every individual is educated and grown up with AI and at this point, to keep up with this movement, we need to learn and implement AI on our own.

Considering fast implementation, Serverless is the concept where developers only focus on writing their code regardless of server maintenance, upgrades, the operating system etc. They implement functions in any programming language they want and call them on demand.

In this tutorial, with the help of Serverless technology, we use multiple IBM Cloud Watson (AI) Services consecutively to practice how AI can be applied in rapid way. We input texts in different languages to IBM Watson Language Translator Action to retrieve English translation of the text and then we give the English text into IBM Watson Natural Language Understanding Action to detect the emotions inside the text.

**Prerequisites**

IBM Cloud Account

IBM Cloud CLI Tools

**Estimated Time**

TBD

**Steps**

1. Install Watson Language Translator Package modify the codes and params
2. Install Watson NLU Package modify code and params
3. Install NLU modify code and params
4. Create a sequence
5. Login to IBM Cloud (target etc.)
6. Create Key, Bind Services
7. Create Sequence
8. Enable Web Action and test it

**Summary**

Artificial Intelligence is getting stronger with combination of its practices and it is inevitable to see the great outcomes that it serves to us. Having a chance to quickly experience this technology with IBM Cloud Functions gives us the agility to innovate like we never did before.

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