# Alexa, ask CICS bank...



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- Show how a 'born in the cloud' application infused with AI can create new business opportunities
- How this style of application can incorporate existing z/OS data without sacrificing existing service levels
- New developers can use best of breed APIs and toolchains to create applications





# **About Kevin**

- Kevin is 8 years old
- Kevin wants to get the Monkeybox Radar Bike
- Kevin's parents said he needs to earn the money to buy the bike himself



# What does he need?

- To check that his parents have given him his chore money
- To find out how close he is to getting his new bike

 He wants to be able to talk to his bank, not use a complicated interface



# How can he do this?

- Kevin talks to his parents about what he needs
- Kevin's parents research what bank can offer this
- Kevin's parents open a bank account at Kix Bank





# **About Fiona**

- Fiona is a front-end developer for a leading bank
- She wants to differentiate her bank from competitors by creating innovative interfaces
- She wants to build an engaging digital experience for people like Kevin
- She wants to be able to develop and code in a language of her choice



# What does she need?

- To be able to react quickly to the demands from her business
- To deliver an engaging front-end that connects with core business function
- To be able to find out which APIs are available to her



# How can she do this?

- Use an API management tool, to select the APIs needed to build her solution
- Develop an Alexa skill to allow Kevin to talk to his bank
- Use Watson Assistant to understand what Kevin says
- Transparently connects to the core banking APIs provided by Stan





# **About Stan**

- Long standing Systems Programmer on z/OS
- Has a wealth of experience working on the mainframe
- Has multiple demands on his time



# What does he need?

- To stay relevant and agile in a ever changing industry
- To support Fiona by providing APIs that allow her to access core logic
- Needs to maintain resilience, security and speed of service



# How can he do this?

- Use ADDI to highlight potential applications that would be useful APIs
- Use z/OS Connect EE or Liberty in CICS to API enable existing applications
- Deploy new APIs to API Management

# What is the value to our personas





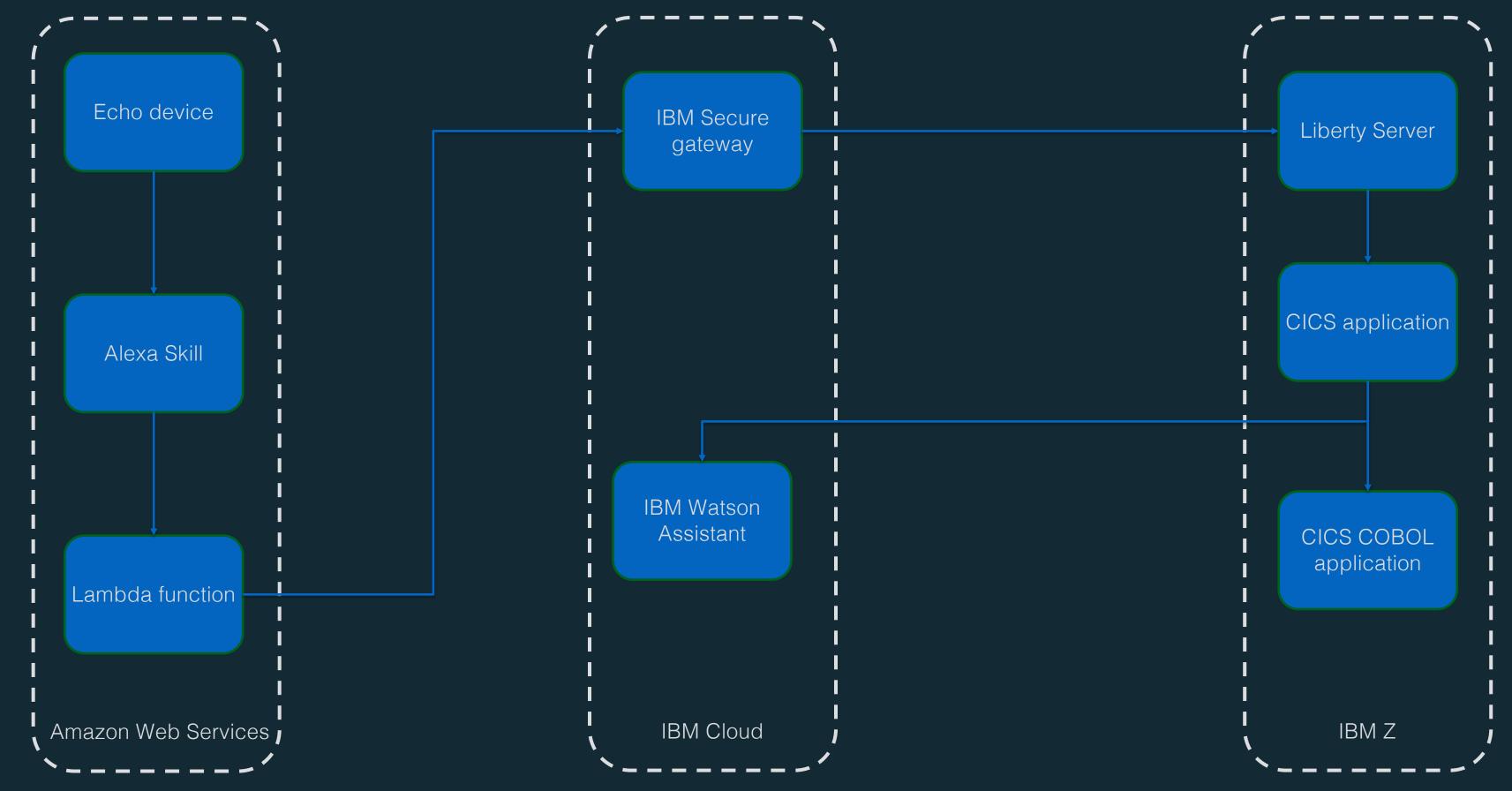
- She can improve customer retention and bring in new customers
- She can easily create new applications by bringing API's to mainframe



- Stan wants to stay relevant by adopting new technologies
- He is able to make existing mainframe data accessible
- He can expose existing assets with less risk

# Demo

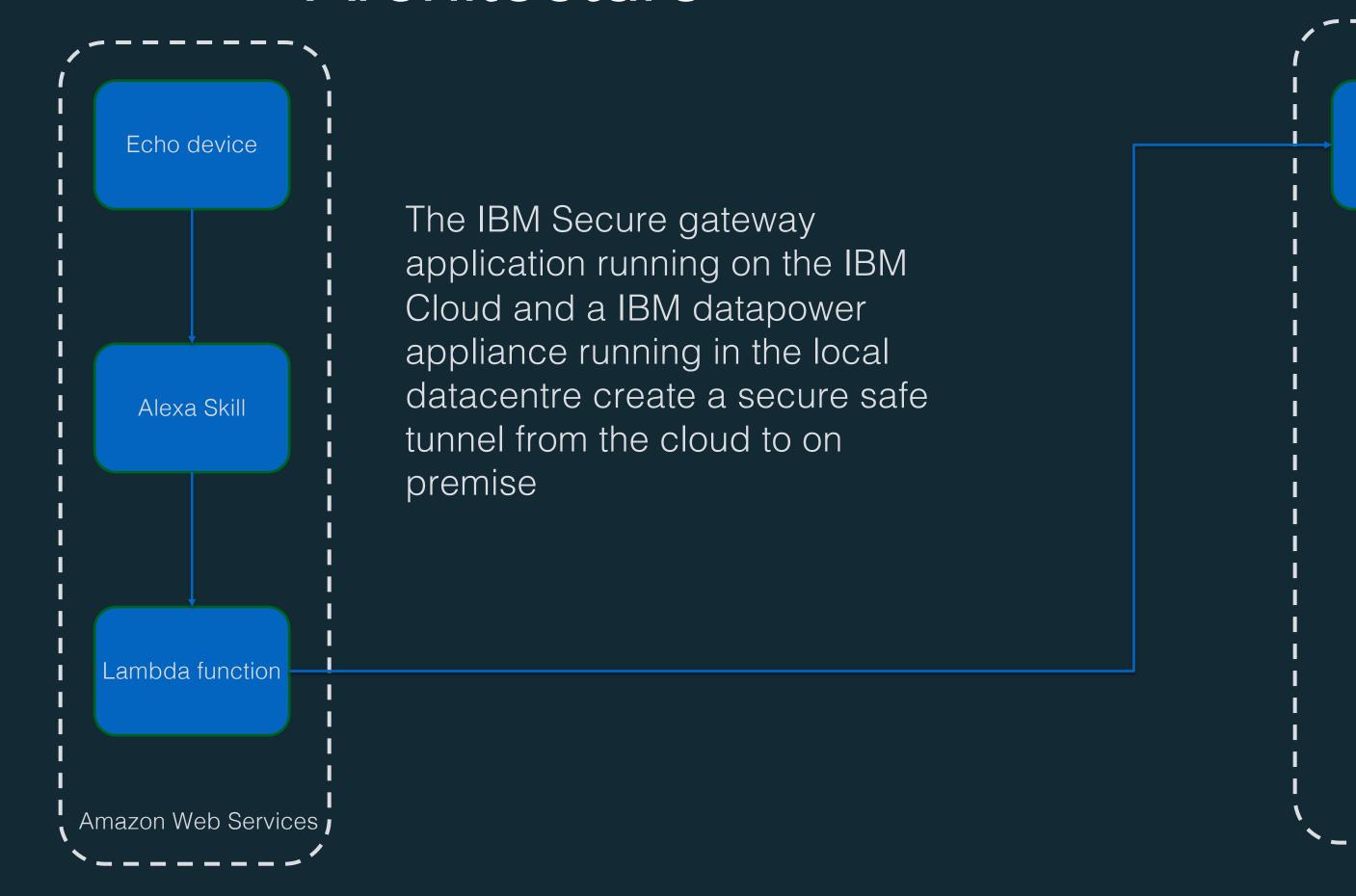






The Echo device (consumer unit) is associated to a new Alexa Skill through the user's amazon ID

The Alexa skill performs speech to text translation and calls a lambda function running on AWS to transfer control to the IBM Cloud

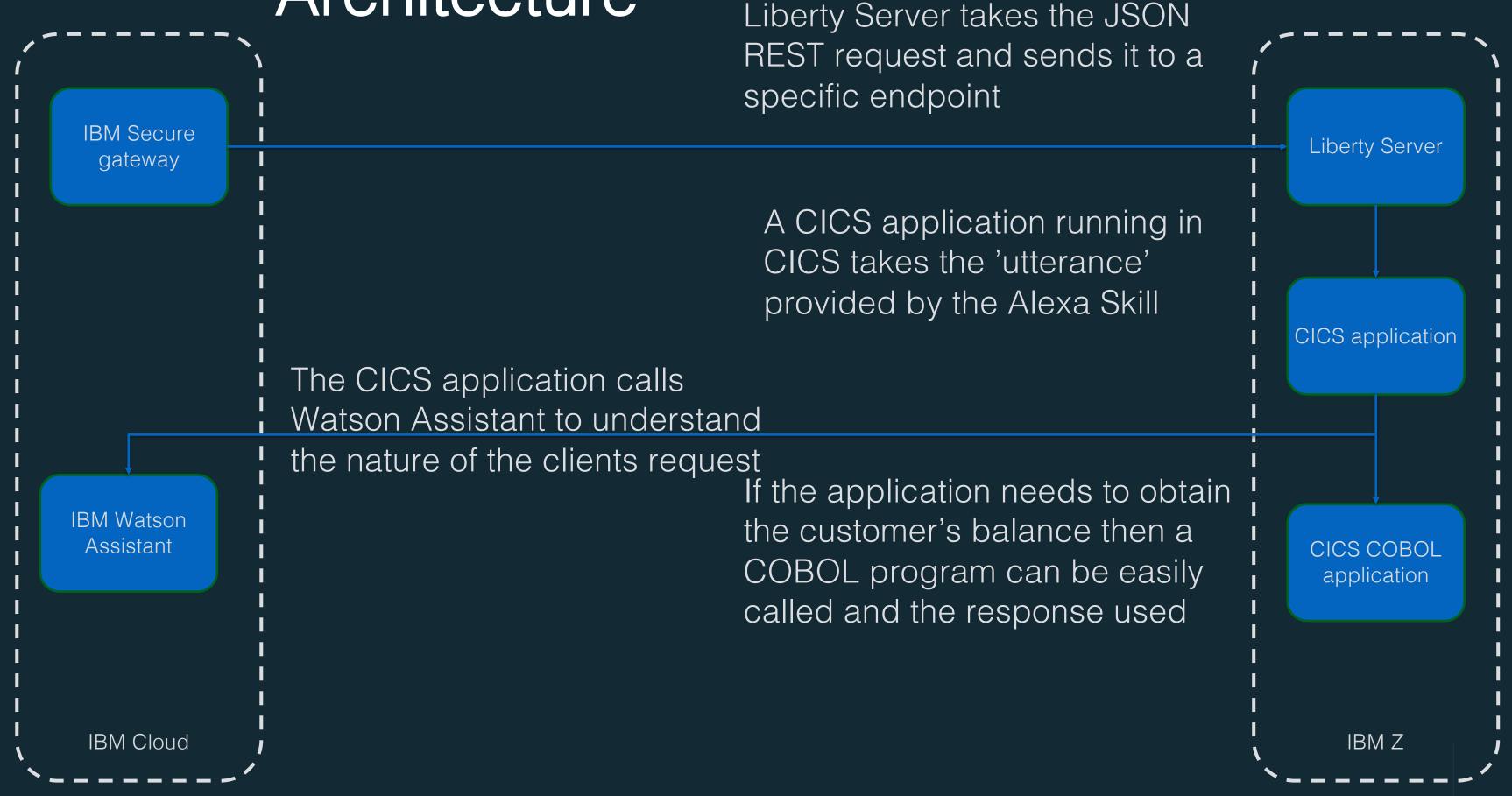


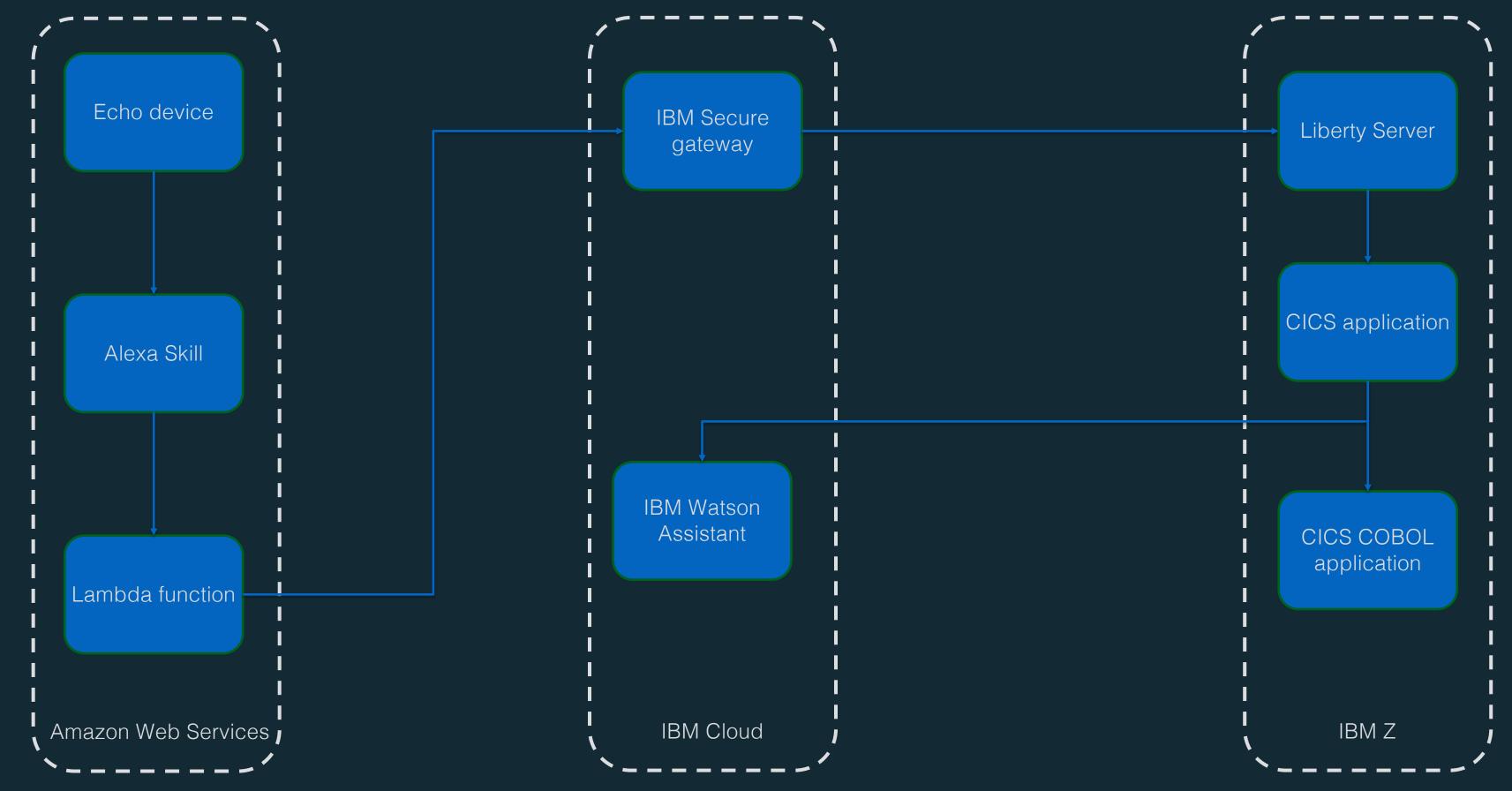
IBM Secure

gateway

IBM Cloud

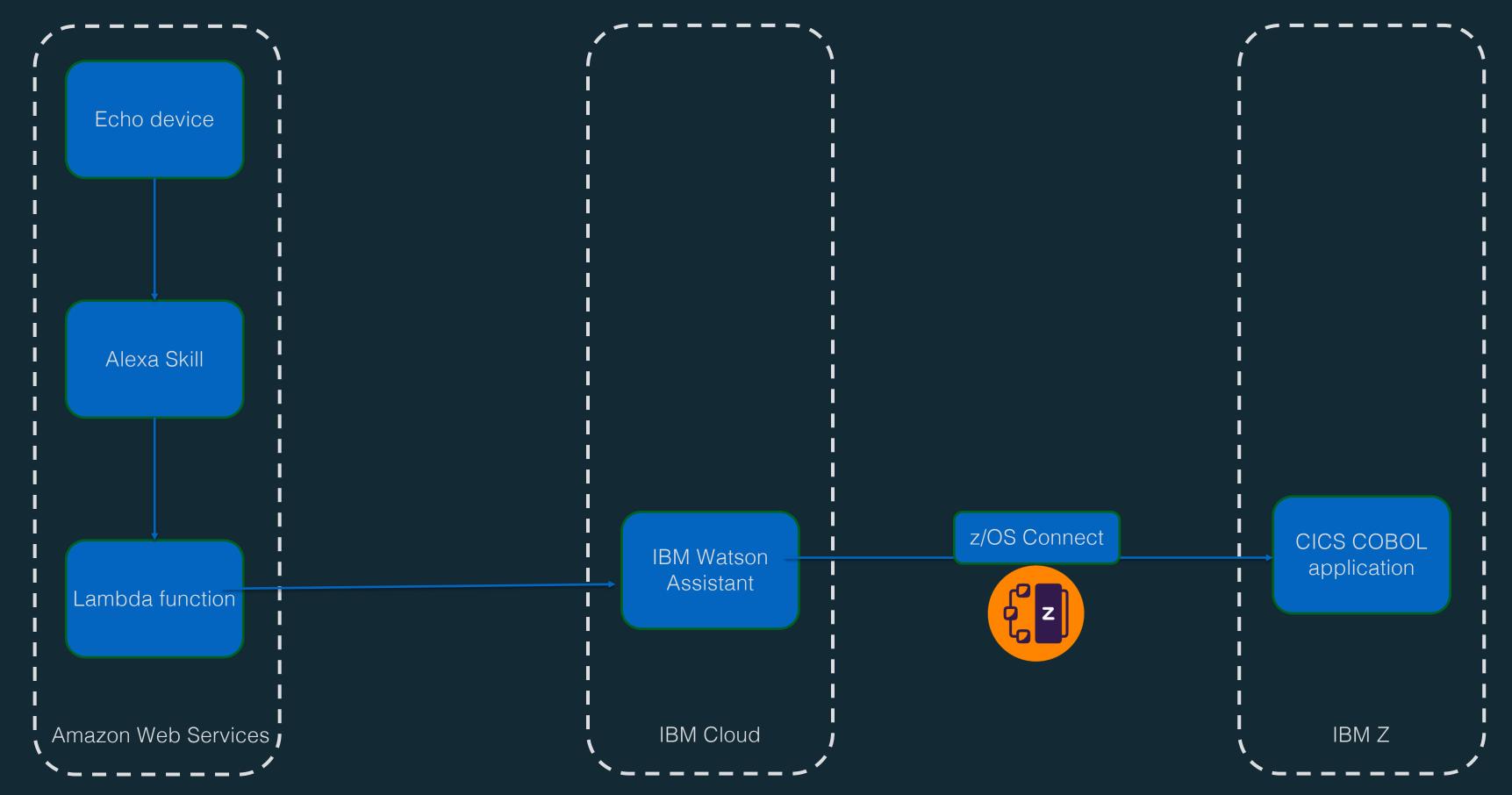






# Alternative architecture

# Alternative architecture

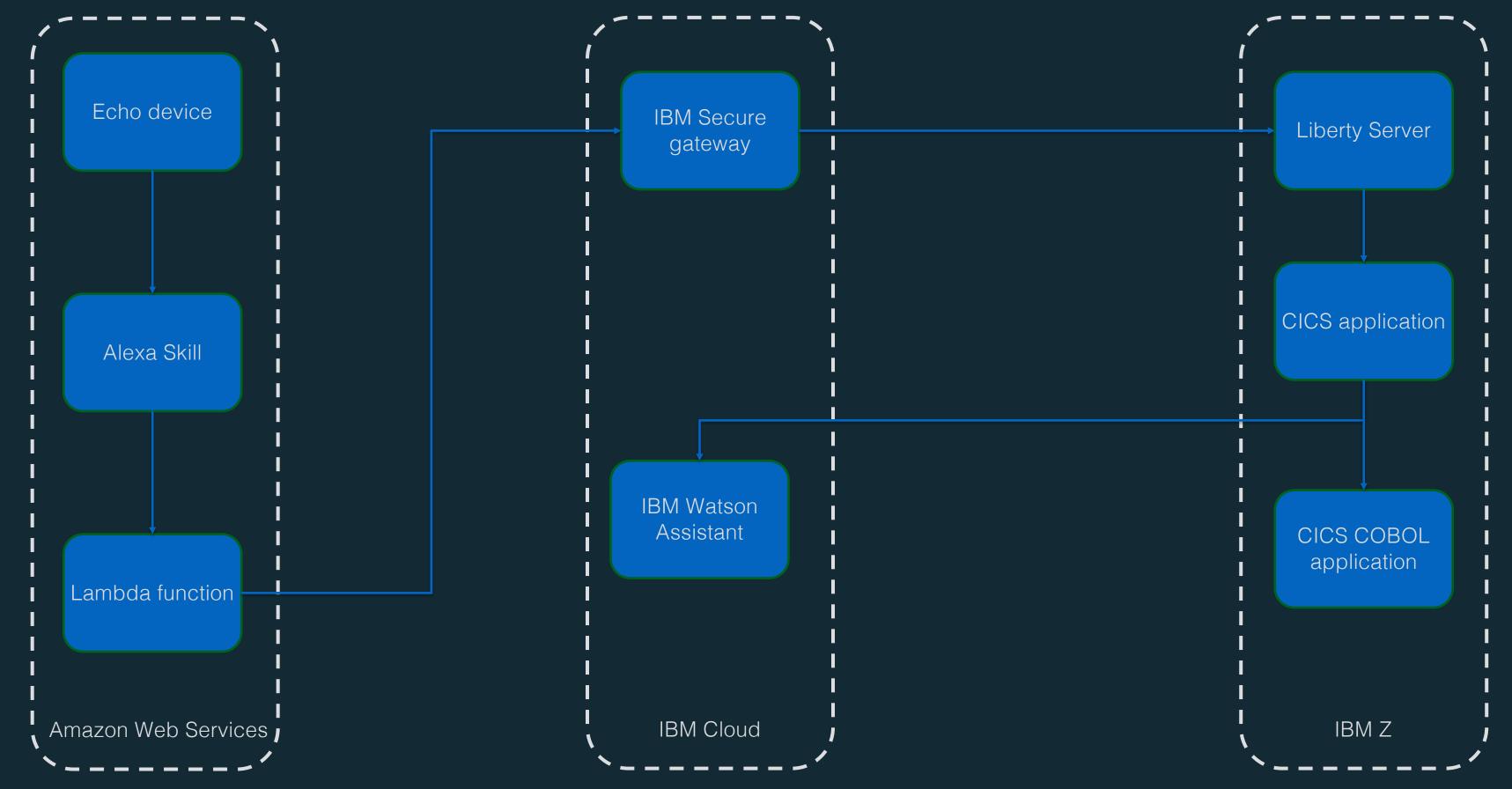


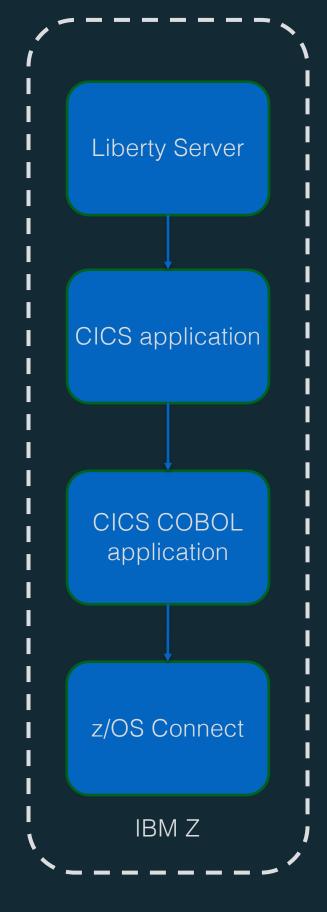
# Just in case you don't believe me....

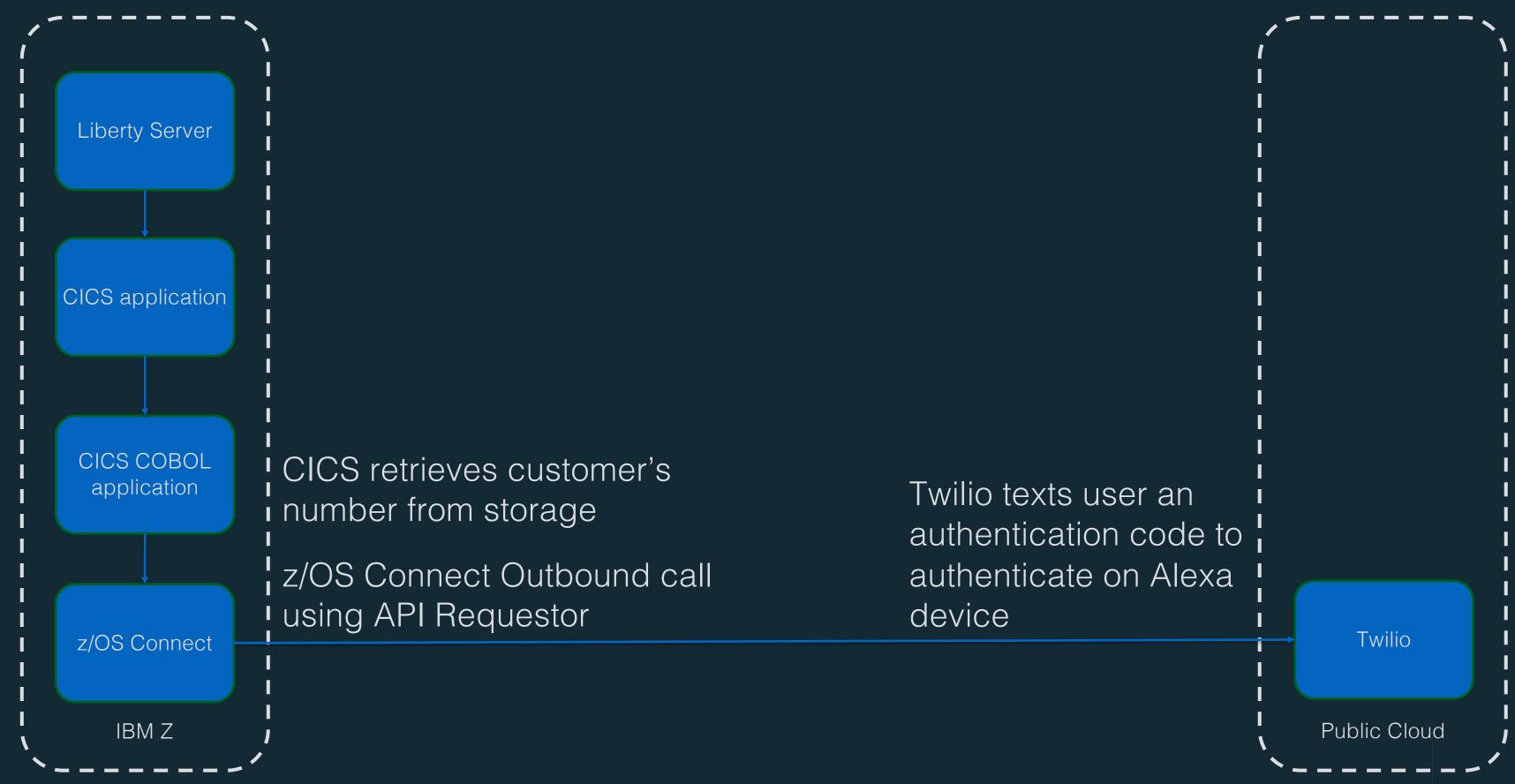
How does Watson convert
"How much is in my savings
account?"
into something meaningful
for CICS to use?

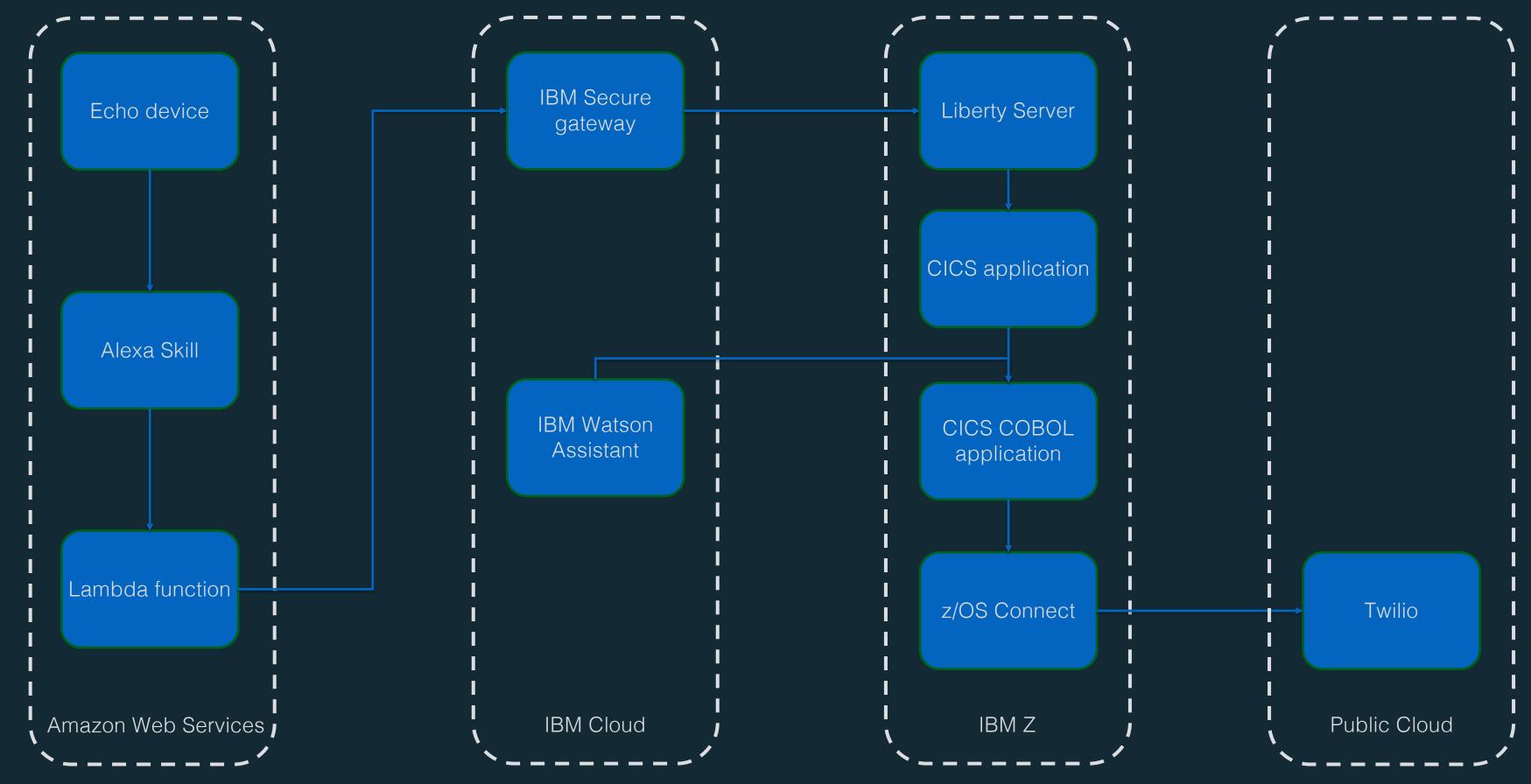


What about authentication?









"Please read out the authentication code"



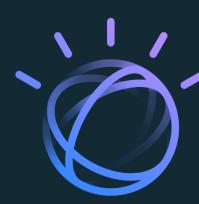




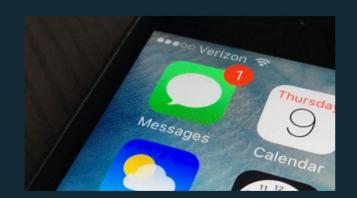
What's my bank balance







What's my bank balance



What's my bank balance





**Authentication code: 1234** 



**Authentication code: 1234** 

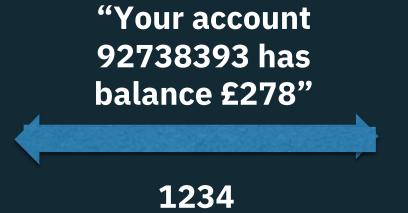


**Authentication code: 1234** 

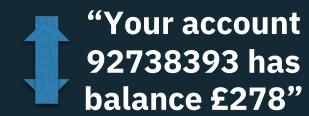












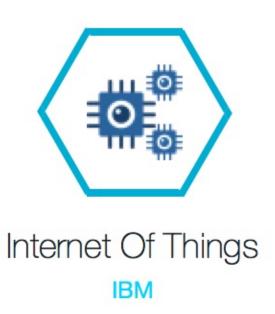






# How else could you modernise the mainframe?









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Join one of our events and get to know like-minded people who are also passionate about the mainframe - there will be plenty of pizza!

Join the group at ibm.biz/z-meetup-group

