Alexa/SAP Demo

How-To
https://mylittlepieceofsap.wordpress.com/2017/11/11/alexa-go-create-that-transfer-order/

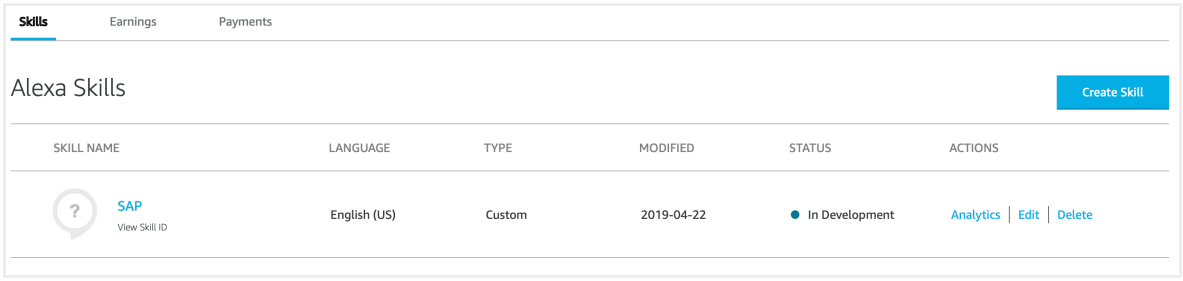
https://blogs.sap.com/2018/08/11/testing-and-demonstrating-scp-odata-abap-and-amazon-alexa-integration/

SAP Backend
OData Service: http://vhcalnplci.dummy.nodomain:8000/sap/opu/odata/sap/ZCC_GETPURCHASEORDERDATA_CDS/ZCC_GetPurchaseOrderData

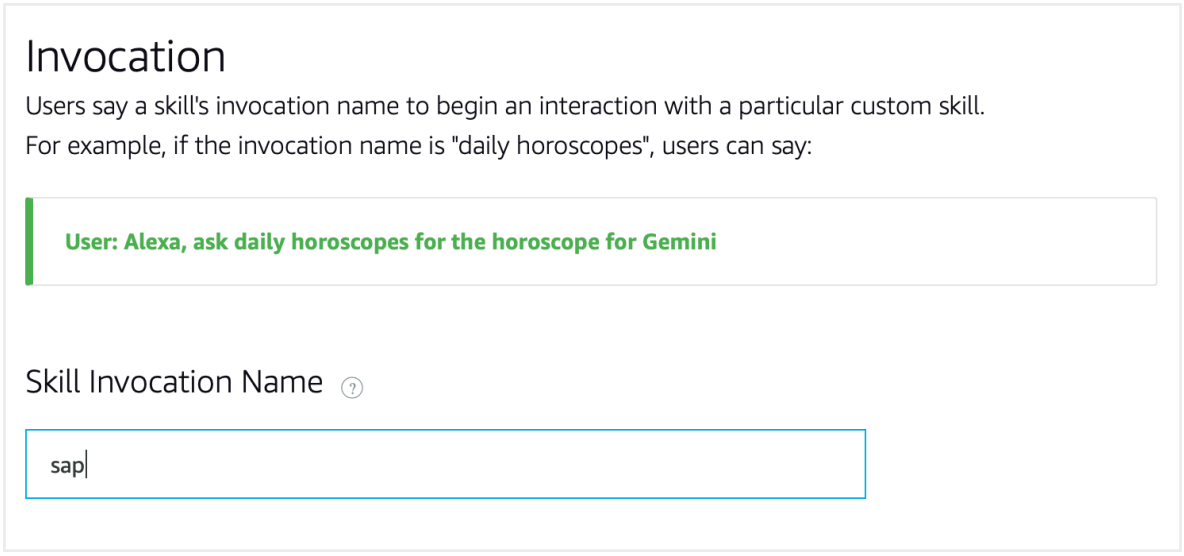
http://104.199.30.221:8000/sap/opu/odata/sap/ZCC_GETPURCHASEORDERDATA_CDS/ZCC_GetPurchaseOrderData

Alexa Skill
https://developer.amazon.com/alexa/console/ask

1. Create the Alexa Skill

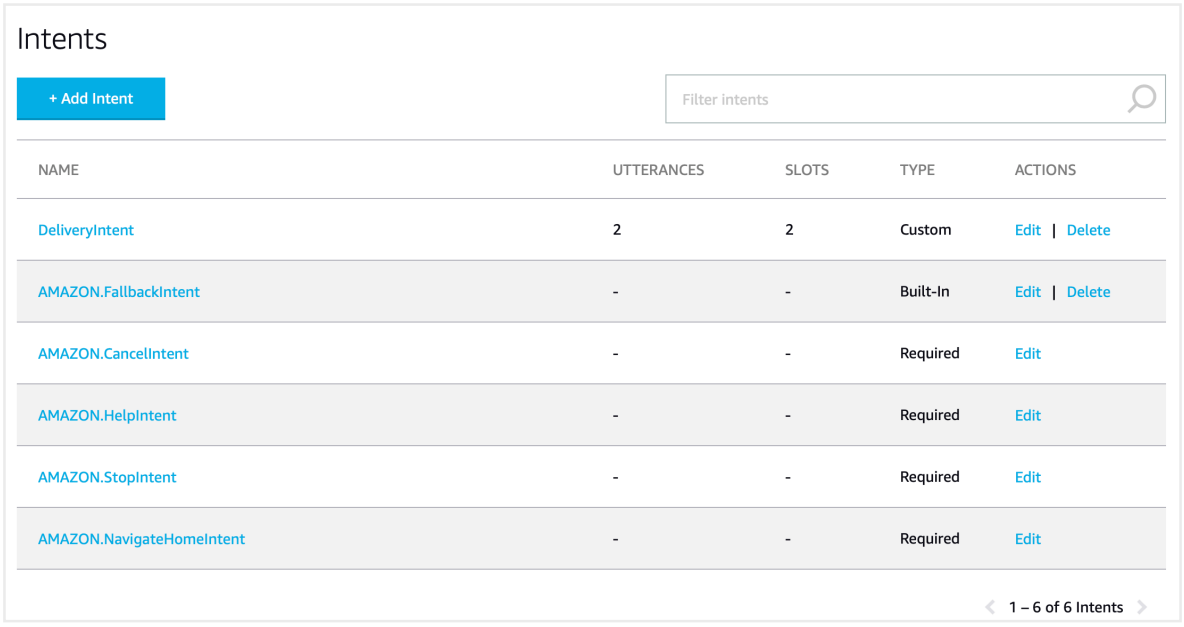


2. Invokation

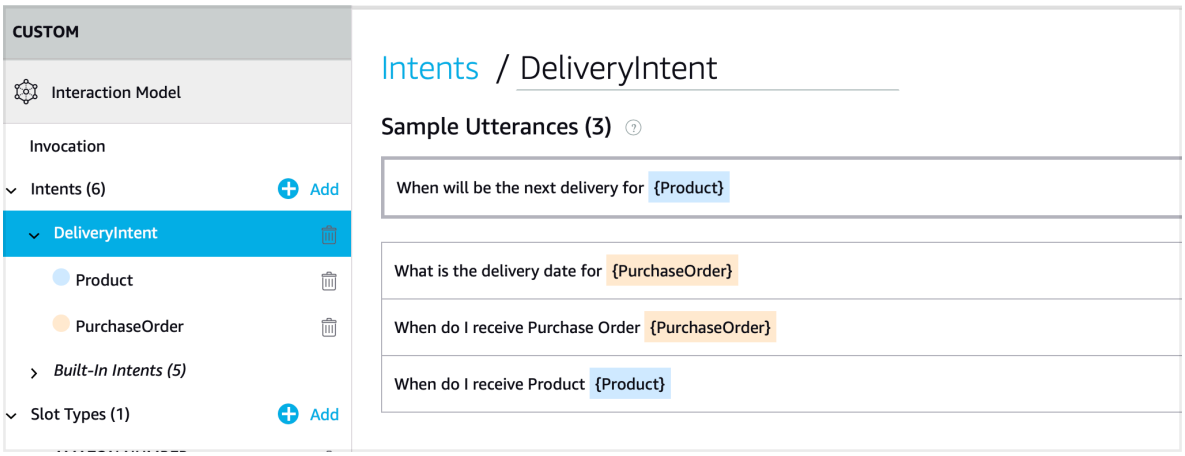


3. Intent

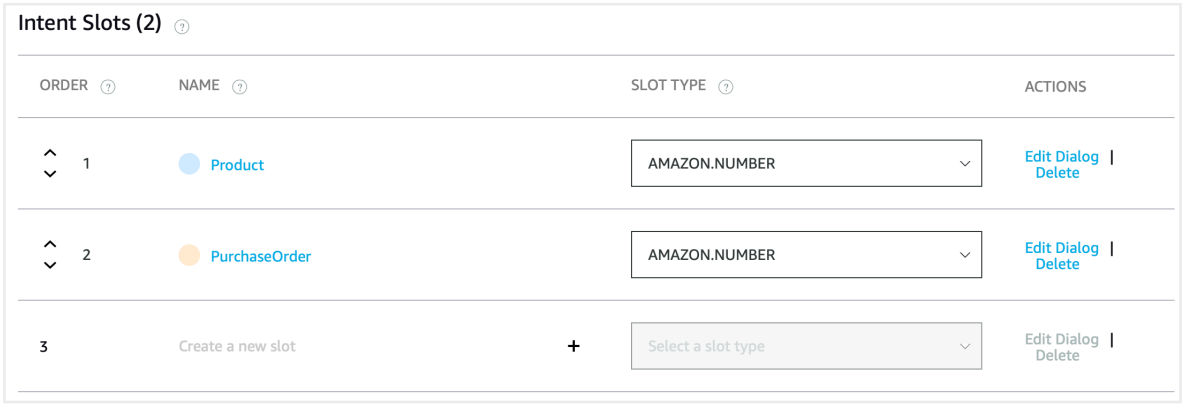
intentions that are nothing more than what the person has “intention” to consult Alexa for example an intention may be to know the sales and budget



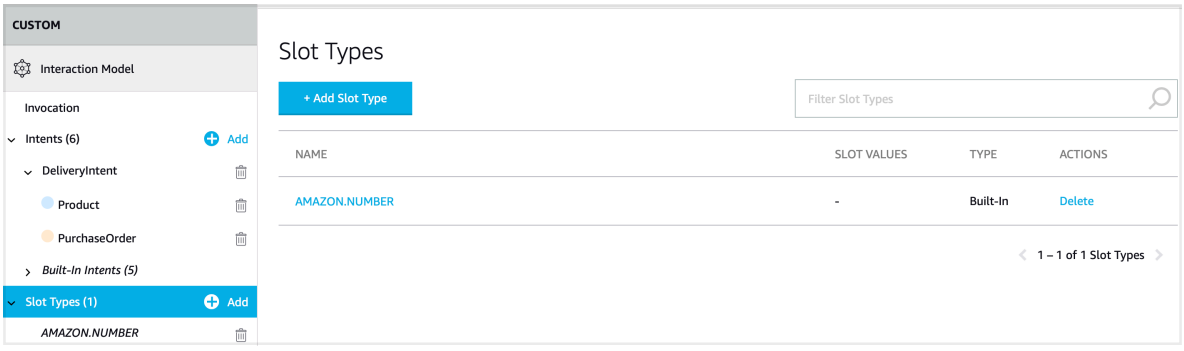
Utterances —> phrases that a user might say to invoke the intent



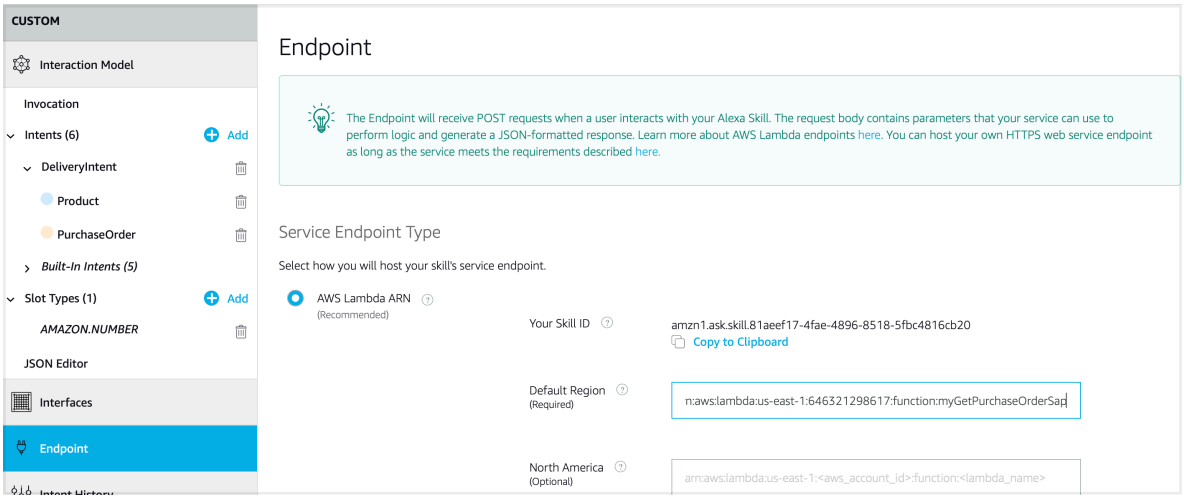
Intent Slots —> Intents can optionally have arguments called slots. Slot values are extracted from utterances and sent with the intent request.



Slot types —> Below I have the types of slots that is like a data type, where I also have the possibility to define some domains as is the case of the office slot, of the City type (I created several cities), here we can see that I can map names to codes which means that within my function node js deployed in lambda I will be able to interpret as code the city that I ask Alexa.

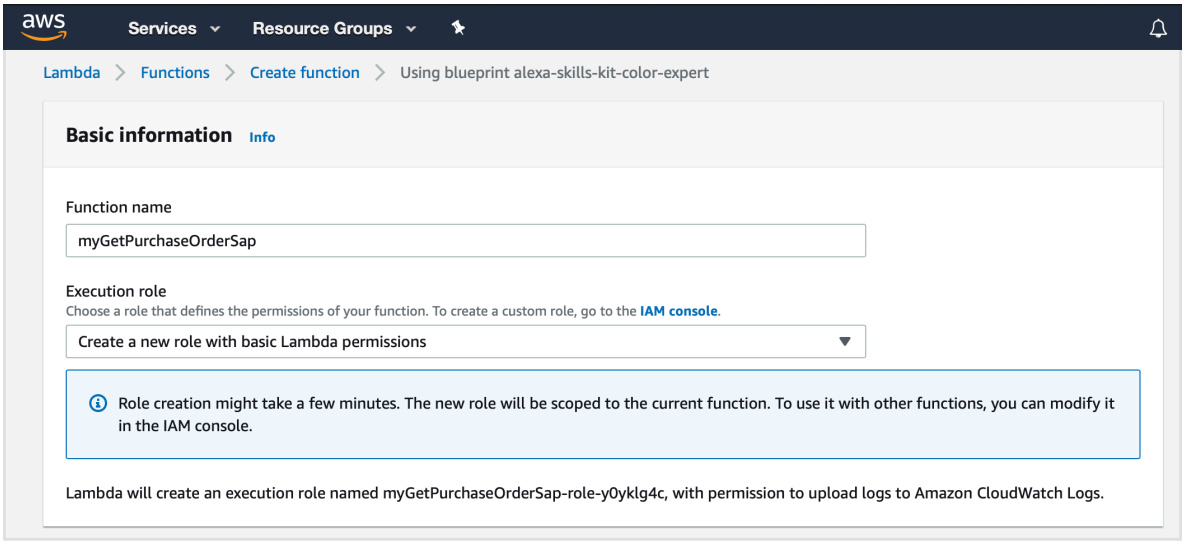


Finally we go to the option Endpoint where we can specify the id of our lambda function that we will see in the next section, there we must have loaded the handler code of our skill, Alexa will contact this function passing the information of the slots, and this function will connect to SAP, get the data in json format and proceed to send the result back to Alexa with what you should “say”.

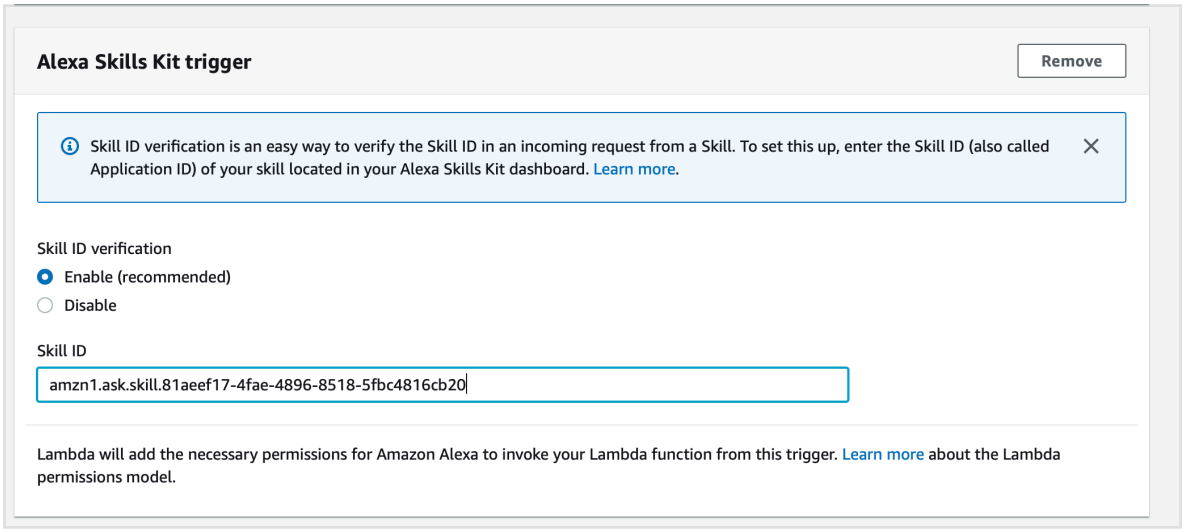


AWS
https://aws.amazon.com/free/?sc_ichannel=ha&sc_icampaign=signin_prospects&sc_isegment=en&sc_iplace=sign-in&sc_icontent=freetier&sc_segment=-1&awsf.Free%20Tier%20Types=categories%23alwaysfree

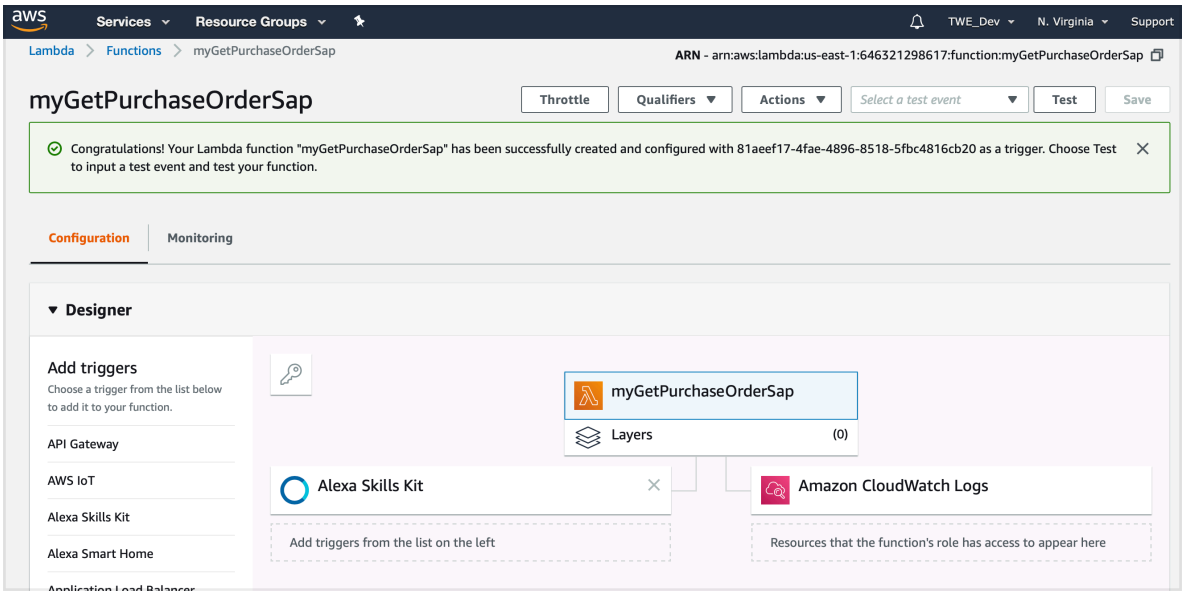
1. Create Lambda function



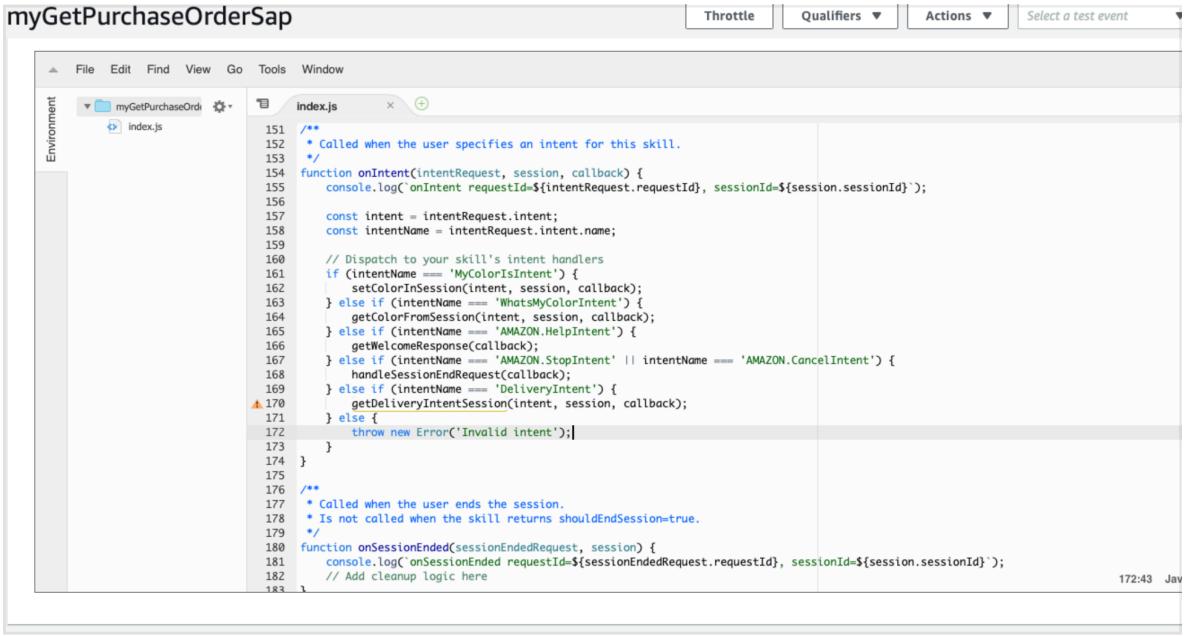
// TODO: control mechanism of the Role and policy templates?



In the upper part of the next page appears the ARN which is the id of the function that we must place in the endpoint section of the configuration of the skill.
Here we configure the trigger of our function that would be a call from our voice service alexa, additionally you can see a connection between our function and Amazon CloudWatch Logs, in this portal we could see all the logs generated each time our function is executed, even those that we ourselves generate using the javascript console.log instruction.



To adjust the template to our Skill, we need to change the function onIntent, and add the call to a new function getDeliveryIntentSession when our Intent DeliveryIntent is called.



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https://docs.aws.amazon.com/de_de/lambda/latest/dg/nodejs-create-deployment-pkg.html

Further details about AWS Lambda function https://developer.amazon.com/docs/custom-skills/host-a-custom-skill-as-an-aws-lambda-function.html