

Model Endpoint Integration

Client to Model Endpoint Integration

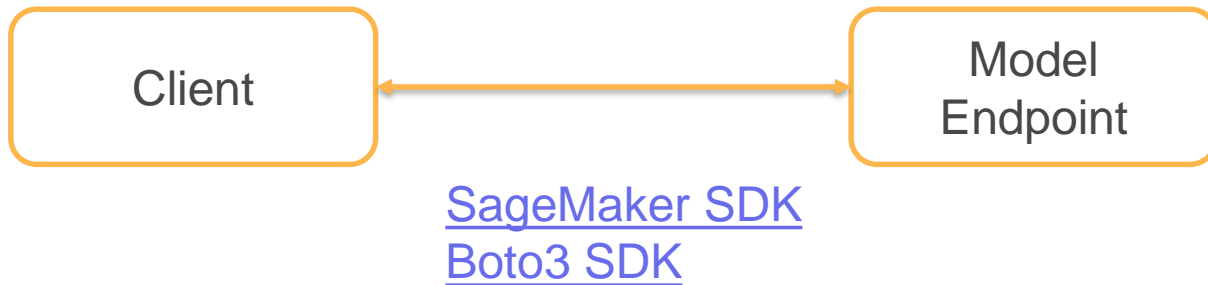
SageMaker SDK

Boto3 SDK

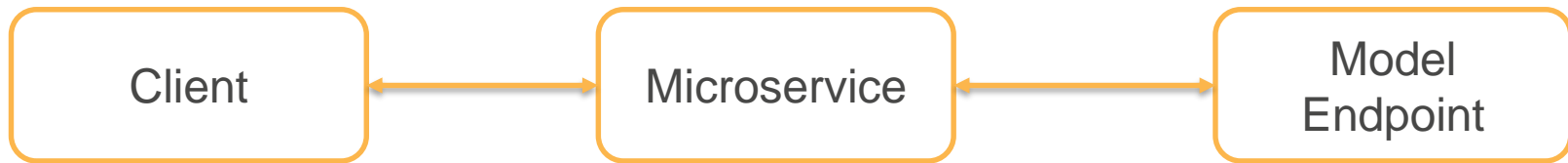
Microservice - Lambda

Microservice - API Gateway and Lambda

Client to Model Endpoint



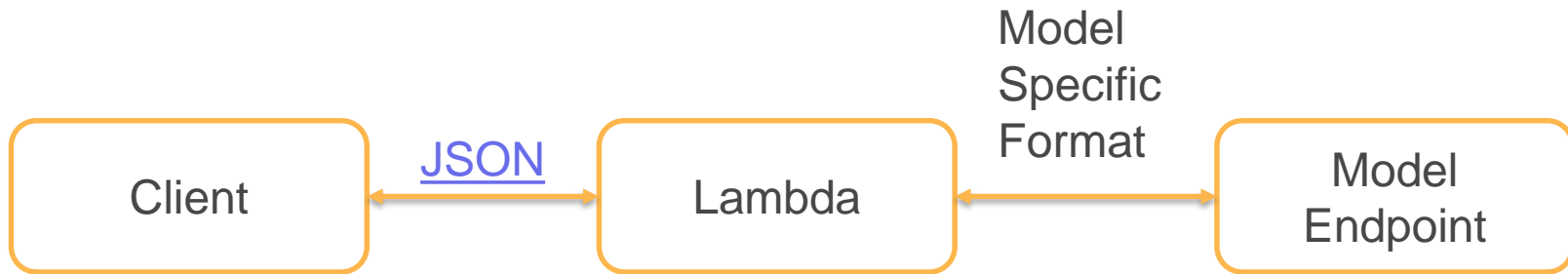
Microservice



Microservice – Lambda Function



Lambda Integration



Inference Formats

text/csv

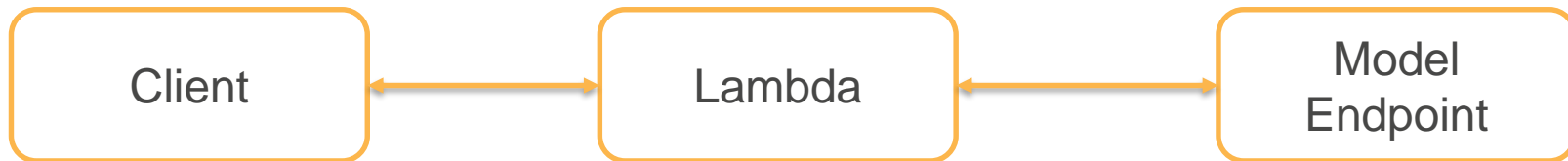
application/json

application/x-recordio-protobuf

text/x-libsvm

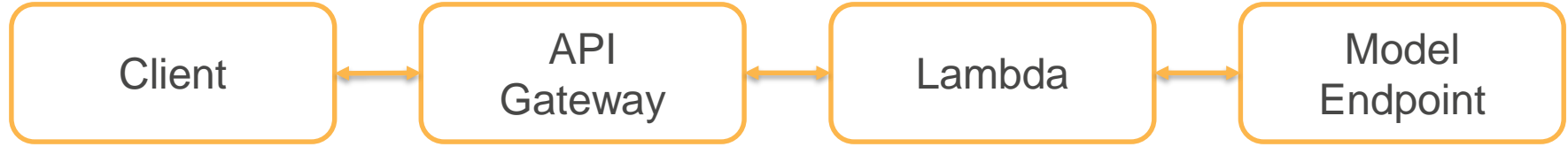
Lambda Permissions

Who can call your function?



What service actions can your lambda function perform?

Microservice - API Gateway and Lambda



Summary

Architecture	Summary
Client – Model Endpoint	Client has too much knowledge about the model and feature transformation Not flexible from long term maintenance
Lambda Microservice	Lambda hides model related details Handles basic feature transformation and processing Numpy Support More complex feature transformation with SKLearn or Pandas is challenging in Lambda
API Gateway and Lambda	Recommended Approach – RESTful API is easy to integrate with variety of clients Same limitation of Lambda applies API Gateway as a gate keeper