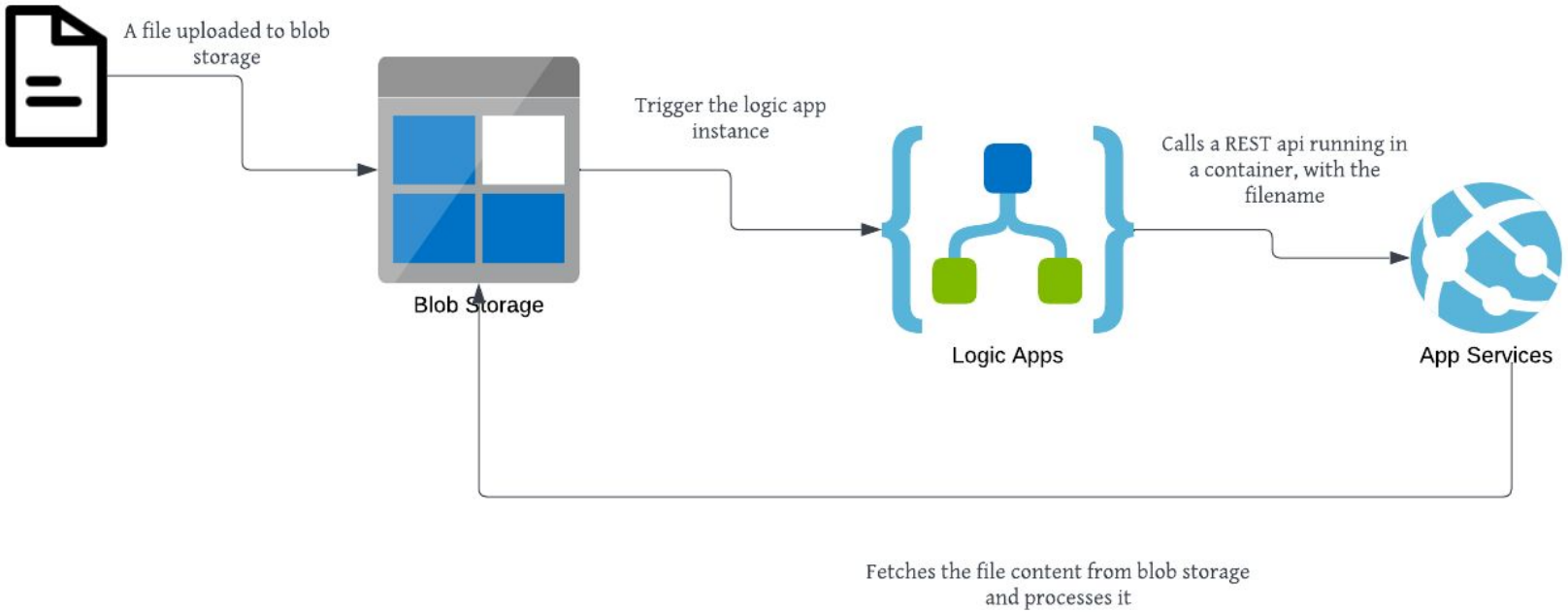
LogicApps and Blob Storage integration with Java SpringBoot

Introduction to LogicApps

Azure LogicApps is a cloud-based platform for creating and running automated workflows that integrate your apps, data, services, and systems.

For example: Schedule and send email notifications using Office 365 when a specific event happens, for example, a new file is uploaded.

Source


A file uploaded to blob storage
Blob Storage
Trigger the logic app instance
Logic Apps
Calls a REST api running in a container, with the filename
App Services
Fetches the file content from blob storage and processes it

Process for implementing the solution

1. Create a storage account for storing blobs.
2. Then, create a Spring boot application which will fetch the blob from the storage account whenever the exposed endpoint is invoked.
3. Create container registry in Azure for storing the application docker image.
4. Get access token for acr and update the jib plugin configuration in build.gradle of the Spring boot application.
5. Upload the image to acr using jib plugin.
6. Create web app and deploy the application using the image from container registry.
7. Create a LogicApps instance and configure the workflow for polling the blob storage and invoking the REST endpoint.

Additional configuration

1. Configure Jib plugin in the project for docker image creation and publish to ACR.
2. Enable admin user in ACR(under AccessKeys section).
3. Explicitly map application port (WEBSITES_PORT = 8080) by Setting “Application Setting” under Configuration tab of App Service.

References

- https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview
- https://github.com/GoogleContainerTools/jib/tree/master/jib-gradle-plugin#using-specific-credentials
- https://github.com/GoogleContainerTools/jib/tree/master/jib-gradle-plugin
- https://docs.microsoft.com/en-us/azure/spring-cloud/quickstart-logs-metrics-tracing?tabs=IntelliJ&pivots=programming-language-java

Thank you