Serverless Computing

Hands-On Example

A hands-on example for serverless computing could be building a serverless image resizing application. Here's a step-by-step guide:

1. Set up an account on a serverless computing platform like AWS Lambda, Azure Functions, or Google Cloud Functions.
2. Create a new serverless function using the platform's provided tools or command-line interface.
3. Write the code for the function, using the programming language supported by the platform. For example, you can use Node.js for AWS Lambda, C# for Azure Functions, or Python for Google Cloud Functions.
4. In the function code, implement the logic to receive an image file as input, resize it to a specified dimension, and save the resized image to a storage service like Amazon S3, Azure Blob Storage, or Google Cloud Storage.
5. Configure the function to be triggered by an event, such as an image upload to a designated folder in the storage service.
6. Test the function locally by simulating an image upload event and verifying that the resizing and storage operations work as expected.
7. Deploy the function to the serverless platform, making it ready to handle real-time image resizing requests.
8. Upload an image to the designated folder in the storage service and observe how the serverless function automatically triggers, resizes the image, and saves the resized version.

This hands-on example demonstrates the power of serverless computing by offloading the image resizing task to a scalable and managed environment. It showcases the ability to build applications without worrying about server provisioning, scaling, or infrastructure management.