

Interview Architecture Task #1 – IOT Provider

You've been hired by GlobalLifts Inc., a provider of various types of lifts from personal lifts through to traditional building lifts. GlobalLifts Inc. are looking to migrate their existing monolithic application to handle an increased load as they've recently won contract with several major construction companies.

The architecture needs to be able to support the following high level requirements:

1. Each lift has a unique ID that reports data every 10 seconds
2. Data is needed for up to 5 years for data analytics
3. A UI will be needed to view the data
4. Alerts will need to be triggered under various scenarios, ie: total number of lift elevations > 1,000,000

Draw a high level architecture diagram of how you would design this system, taking into account the following characteristics:

1. Security
2. Reliability
3. Performance
4. Data Storage