

# Firestore Functions: Fundamentals

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## GETTING STARTED



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No need to manage your servers



# What You'll Learn



## Understanding Cloud Functions

### Firestore Functions

- Calling
- Triggering
- Writing
- Testing
- Monitoring

## Upgrading Firestore Functions



# Prerequisites

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**Visual Code**  
**JavaScript**  
**TypeScript**  
**Firebase CLI**

## Prerequisite Skills

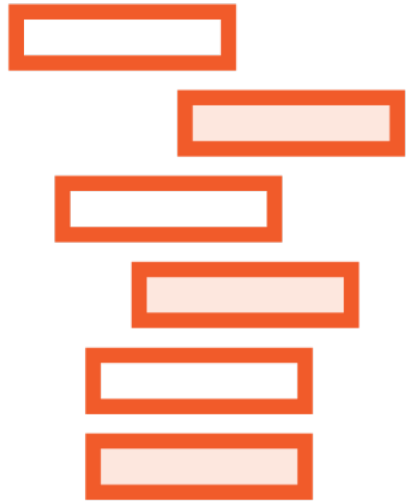


# Why Should You Learn Firebase Functions?

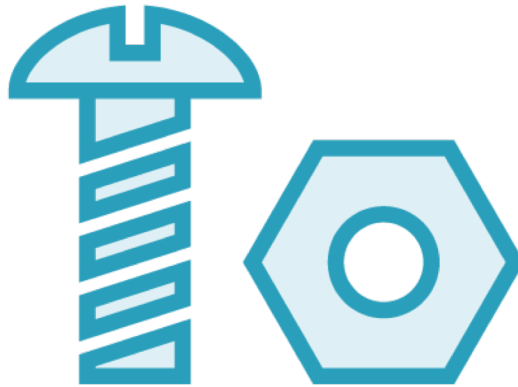
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# Why Firebase Functions?



Integration



Zero maintenance



Secure



# How Does It Work?

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# Lifecycle of a Background Function



Create



Deploy



Invoke

Google creates more  
instances to handle work  
faster





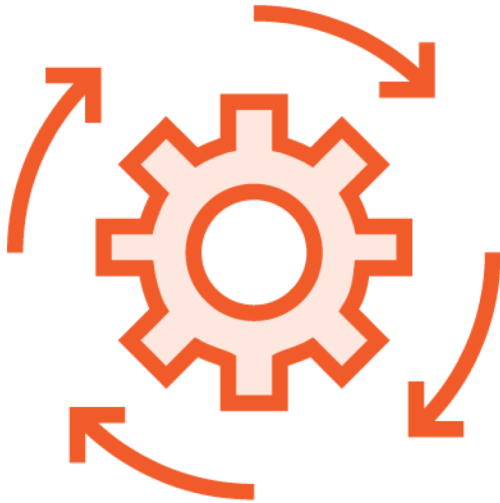
### **If a function is updated**

- Old instances are cleaned up

### **If a function is deleted**

- All instances are cleaned up
- Connection is removed

# Implementation Path



Set up



Write



Deploy



# Setting up Node.js & Firebase CLI

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# Node.js & Firebase CLI



# Demo



## Installing Node.js & Firebase CLI



# Creating Your First Function

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# Demo



## Creating a firebase function



```
// Firebase SDK to create Cloud Functions and setup triggers  
const functions = require('firebase-functions');
```

```
// Firebase Admin SDK to access the Firebase Realtime Database  
const admin = require('firebase-admin');  
admin.initializeApp();
```

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## Required modules

- firebase-functions
- firebase-admin



# Summary



## Firestore Functions

- Integrates the Firebase platform
- Zero maintenance
- Logic is kept private and secure

Installing Node.js & Firebase CLI

Creating & Deploying a Function

