

Atbash

Technical Installation Manual

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Introduction

The Atbash system is built using flutter and dart on the front-end. The backend consists of several lambda functions sitting behind an API gateway, with a DynamoDB database as the persistence layer. All prerequisites for software installations are listed as well as all installation instructions. This document is to ensure that the installation of Atbash is fluent and as easy as possible. Atbash is a mobile messaging application and therefore the download and use of it is as simple as downloading any other app from the appropriate app stores. Deployment of our back-end is explained for if a user wishes to clone our system.

Prerequisites

- Node.js v14.17.5 - Install from <https://nodejs.org/en/>



- SAM CLI v1.26.0 - Follow the link for your operating system on this site <https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-sam-cli-install.html>



- Android Studio v2020.3.1 - Install from <https://developer.android.com/studio>



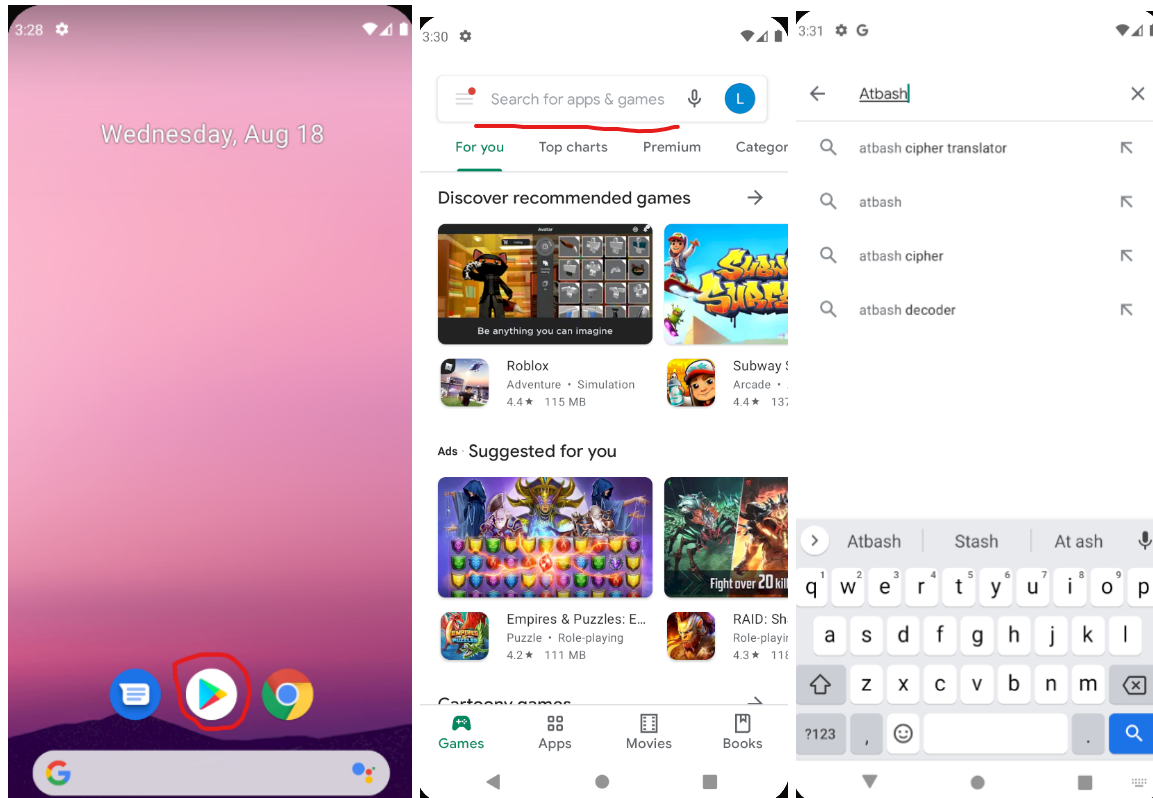
- Flutter SDK v2.2 - Install from <https://flutter.dev/docs/get-started/install>



All links provided have instructions on how to install each service onto most appropriate operating systems.

Installation

Atbash is a private messaging application intended for use with Android and Apple mobile devices. To install Atbash, the user simply has to download it from the google play store or the app store. It can also be downloaded onto an Android device via a computer if the owners of the application wish to do so. All packages and code relevant to the program will be downloaded alongside the application making it easy to install and use.



Deployment

The application's backend is running on Amazon's web servers with the front-end being run on the appropriate mobile device.

Deploying the backend:

- Clone the repository
- Navigate to the 'backend' directory
- Run 'sam build'. This will build all the lambda functions
- Run 'sam deploy --guided'. This will initiate the deployment process
- When prompted, enter names of tables, keys, indexes, etc.
- Once the change set has been created, confirm that you want to deploy

The user manual for Atbash provides instructions on how to install and run most features of the application as well as the technological requirements of the hardware and software required to run it. It provides an intuitive way to use the application with images.

User manual:

https://github.com/COS301-SE-2021/Atbash/blob/master/Documentation/Demo3/User_Manual.pdf