

Build and Run Instructions for VidyBot1

This document provides instructions on how to build and run the VidyBot1 application locally.

Prerequisites

Before you begin, ensure you have the following installed on your system:

- **Go (Golang):** Version 1.21 or higher. You can download it from golang.org/dl.
- **Git:** For cloning the repository (if you haven't already).
- **Python 3 and pip:** For `yt-dlp` dependency.
- **aria2:** A lightweight multi-protocol & multi-source command-line download utility.

Setup Steps

1. Extract the Source Code

Extract the `VidyBot1_CleanSource.zip` file to your desired location.

2. Navigate to the Project Directory

Open your terminal or command prompt and navigate to the extracted project directory:

```
bash
```

```
cd /path/to/VidyBot1_CleanSource
```

3. Install Go Dependencies

The project uses Go modules to manage dependencies. Run the following command to download all required Go modules:

```
bash
```

```
go mod download
```

4. Install Python Dependencies (yt-dlp)

The application uses `yt-dlp` for video downloading. Install it using pip:

```
bash
```

```
pip install yt-dlp
```

5. Install aria2

Install `aria2` using your system's package manager. For Debian/Ubuntu-based systems:

```
bash
```

```
sudo apt-get update
```

```
sudo apt-get install -y aria2
```

For other operating systems, please refer to the `aria2` documentation.

6. Configure Environment Variables

The application reads configuration from environment variables. You need to create a `.env` file in the root of the project directory.

Here's an example `.env` file. **Replace the placeholder values with your actual credentials and desired settings.**

```
```.env
```

# Telegram Bot Token

```
TELEGRAM_TOKEN=YOUR_TELEGRAM_BOT_TOKEN
```

# MongoDB Configuration

**IMPORTANT: If you face DNS resolution issues with mongodb+srv, consider these options:**

- 1. Ensure your system's DNS can resolve SRV records (e.g., by using 1.1.1.1 or 8.8.8.8 as DNS servers).**
- 2. Convert the SRV URI to a standard connection string by manually resolving the hostnames and ports.**

**Example: mongodb://**

**user:password@host1:port1,host2:port2/  
database?replicaSet=rs0&ssl=true**

`MONGODB_URI=mongodb+srv://`

`todo:wH0YRnD6fIBtZwkv@eastcluster.qlszngk.mongodb.net/?`

`retryWrites=true&w=majority&appName=EastCluster`

`MONGODB_DATABASE=video_downloader`

# Redis Configuration

```
REDIS_URI=rediss://
```

```
default:AXIeAAIjcDFkZDgwOTM3MWFmZmY0NjU4OGFiMjY2NDA4MmVhY2IzOHAxMA@social-
koi-29214.upstash.io:6379
```

## Download Settings

```
DOWNLOAD_TEMP_DIR=/tmp/video_downloader
```

## Optional settings

```
LOG_LEVEL=info
```

```
RATE_LIMIT_ENABLED=true
```

```
RATE_LIMIT_REQUESTS_MAX=10
```

```
RATE_LIMIT_TIME_WINDOW=60
```

```
COOKIE_DIR=../../app/config
```

```
USER_AGENT="Mozilla/5.0 (Linux; Android 10; K) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/135.0.0.0 Mobile Safari/537.36"
```

```
...
```

**Note on MongoDB URI:** The provided `MONGODB_URI` uses `mongodb+srv`. If your local environment or network has issues resolving SRV records, you might need to adjust your system's DNS settings or convert the URI to a standard connection string. The `MONGODB_CONNECTION_SOLUTIONS.md` file (included in the previous delivery) provides more details on this.

## Running the Application

Once all dependencies are installed and your `.env` file is configured, you can run the application:

```
go run cmd/main.go
```

The bot should start and print "Bot started successfully" in your terminal. You can then interact with your Telegram bot.

# Troubleshooting

- **"Failed to connect to MongoDB"**: Double-check your `MONGODB_URI` in the `.env` file. Ensure your network allows outbound connections to MongoDB Atlas. Refer to `MONGODB_CONNECTION_SOLUTIONS.md` for detailed troubleshooting steps.
- **"command not found" for `go`, `pip`, or `aria2`**: Ensure these tools are correctly installed and added to your system's PATH.
- **Dependency errors**: Run `go mod tidy` to clean up unused dependencies and `go mod download` again to ensure all modules are downloaded.

If you encounter any further issues, please provide the exact error message and any relevant logs.