



The Uno Platform

— On Your Premise —

Why Low-Code App Platform?

- Quick to Start
 - Browser based development
 - Lean setup
- Quick to Build
 - Visual UI Designer
 - Ready-to-use (off-the-shelf) features
- Quick to Deploy
 - Ready-to-use deployment options
 - Cloud, On-Prem
- Quick to Scale
 - Auto-scale on Cloud
- Low on Cost
 - Reduced tools and technologies
 - Reduced infra
- Low on Skill Requirements
 - Shorter learning curve
 - Thinned tech-stack
- High Security & Compliance
 - Out-of-box compliance to standards
- High Customization
 - Full power of coding enables customization beyond limits

Why On-Premise?

- Complete control on development and hosting environments
- Sense of ownership
- Cost-effective
- High degree of security and compliance
- Distributed development
- Flexible Integrations
- Assured availability
- Improved end-user performance
- Reduced network dependency

The Uno Platform - On Premise

The Uno Platform - On Premise

- The Uno Platform (<https://theunoplatform.com>)
 - A **cloud-hosted** Low-Code Application Development Platform
 - Enables creation and hosting of Enterprise-grade web and mobile applications
 - Truly browser based development environment
 - Browser-based deployment management
 - Auto-scalable
- It is now available in [On-Premise](#) flavor as well
 - Create **standalone** applications
 - Gain complete control on hosting
 - Fully portable

Flavours of The Uno Platform - On Premise

- **All-in-One**

- **The platform and the prerequisites bundled together**
- Doesn't require any other software download or setup
- Download, unzip and START using the platform
- **Excellent for quick starters**
- Very good for production deployments

Get Started with [All-in-One](#)

- **Light**

- Very light platform download bundle
- **Plugin to existing prerequisites**
- Each prerequisite is available separately for download
- Requires a little bit of configuration and setup
- **Good for Pro users**, who require deeper customization choices


Get Started with [Light](#)


The Uno Platform - On Premise All-in-One


Or get started with [Light](#)


Get Started with All-in-One Setup


- Download the zipped bundle
 - Windows 64-bit:
https://drive.google.com/file/d/1IK7Z7288l1st_X7Wphcdnirld2a5yYad/view?usp=drive_link
 - Ubuntu & Mac OS: To be available soon
- Unzip the bundle in a folder of your choice
- You will find the following folders and files
 - mongodb - The MongoDB database
 - nginx - The Nginx reverse proxy server
 - nodejs - The Node.js JavaScript runtime environment
 - platform - The server-side app of The Uno Platform
 - scripts - Utilities to manage the platform
 - webui - The client-side app of The Uno Platform
 - START.bat - To start the platform
 - STOP.bat - to stop the platform
 - The_Uno_Platform.bat - To manage other platform processes
 - app_config.json - Configuration/Setting about the applications and the platform


 mongodb


 nginx

 nodejs

 platform


 scripts

 webui

 app_config.json

 START.bat

 STOP.bat

 The_Uno_Platform.bat

Start or Stop the Platform

- To Launch/Start the platform, run
 - **START.bat**
- Access the platform via a web browser
 - <https://localhost>
 - OR https://localhost/uno_apps
- To Stop the platform, run
 - **STOP.bat**
- For more knowledge of Platform features, refer to these YouTube videos -
 - <https://www.youtube.com/playlist?list=PL0Co2DuqsJfKSTjkkIAW8k0UvKH7AtXkU>

Re-Launch Applications

- Ensure new applications also get launched on subsequent (re)start of the platform
 - Add an entry for each application in the “**app_config.json**” file

```
"apps": [  
  {  
    "app_id": "uno_apps",  
    "dump": {  
      "disabled": true,  
      "app_uri": "mongodb://localhost:27017",  
      "app_def_uri": "mongodb://localhost:27017"  
    }  
  }  
],
```

Backup & Restore

Advanced Options - Backup Application Data

- In the “**app_config.json**” file, for the given application, ensure “dump”->“disabled” is set to **false**
- Start the platform by running the following command
 - START.bat
- Or launch the MongoDB server by running the following command
 - The_Uno_Platform.bat MONGO.START
- To dump out the application data, Run the following command
 - The_Uno_Platform.bat DUMP
- It creates a folder with given “<**app_id**>” as name inside “**mongodb**”->“**dump**” folder
- It also creates a file in the dump folder with following name
 - <**app_id**>_app_def.json

Advanced Options - Backup Application Files

- The files created or uploaded in an app are stored in the following folder
 - **"platform" -> "_uploads" -> "<app_id>"**
- Create a copy of this sub-folder (<app_id>) to backup application files

Advanced Options - Restore Application Data

- In the “**app_config.json**” file, for the given application, ensure “dump”->“disabled” is set to **false**
- Ensure the app dump folder with name “<**app_id**>” and the file named <**app_id**>_app_def.json are kept inside “**mongodb**”->“**dump**” folder
- Start the platform by running the following command
 - START.bat
- Or launch the MongoDB server by running the following command
 - The_Uno_Platform.bat MONGO.START
- To restore the application data, Run the following command
 - **The_Uno_Platform.bat RESTORE**

Advanced Options - Restore Application Files

- The files created or uploaded in an app are stored in the following folder
 - **"platform"** -> **"_uploads"** -> **"<app_id>"**
- Copy the backed up sub-folder (<**app_id**>) containing application files in to this folder
 - **"platform"** -> **"_uploads"**

Manage Other Services

Advanced Options - Manage MongoDB

- A local MongoDB database is present in “**mongod**” folder
- The MongoDB process is started or stopped with the Platform’s start or stop.
- You can also independently start or stop the MongoDB process
- Start the MongoDB server by running the following command
 - **The_Uno_Platform.bat MONGO.START**
- To stop the MongoDB server, run the following command
 - **The_Uno_Platform.bat MONGO.STOP**

Advanced Options - Manage Nginx

- A local Nginx Reverse Proxy Server is present in “**nginx**” folder
- The Nginx process is started or stopped with the Platform’s start or stop.
- You can also independently start or stop the Nginx process
- Start the Nginx process by running the following command
 - **The_Uno_Platform.bat NGINX.START**
- This also launches the client-side of The Uno Platform that is placed in “**webui**” folder
- To stop the Nginx process, run the following command
 - **The_Uno_Platform.bat NGINX.STOP**

Advanced Options - Manage Platform Server-side

- A server-side part of The Uno Platform is present in “**platform**” folder
- The server-side process is started or stopped with the overall Platform’s start or stop.
- You can also independently start or stop the server-side process
- Start the server-side process by running the following command
 - **The_Uno_Platform.bat PLATFORM.START**
- To stop the server-side process, run the following command
 - **The_Uno_Platform.bat PLATFORM.STOP**

HTTPS and Port Management

Advanced Options - SSL Certificate for HTTPS

- Currently using a self-signed SSL certificate
- Certificate files are placed in the following folder
 - **"nginx"** -> **"ssl"**
- To map the server to a registered domain and enable HTTPS
 - Generate SSL certificates for the given domain and the server
 - replace the certificate files in above **"ssl"** folder
 - Modify the server configuration in **nginx.conf** file present in **"nginx"** -> **"conf"**

The Uno Platform - On Premise Light

Or get started with [All-in-One](#)

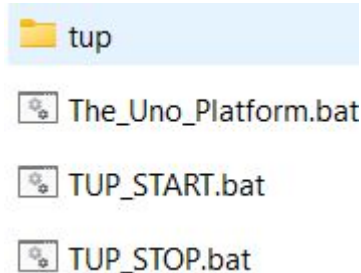
Prerequisites

- The following applications are required for smooth execution and usage of The Uno Platform
 - [MongoDB](#) - The database
 - [Nginx](#) - The proxy-server
 - [Node.js](#) - The runtime environment for the server-side application of the platform
 - [MongoDB tools](#) - to perform data management operations like dump, export, restore, import etc.
- If you are looking for the installables of above prerequisites, you can find them here
 - https://drive.google.com/drive/folders/12Apu4UwjazGqx4pBix0Ww3Hmm3X0JWsx?usp=drive_link

▼	mongo_tools.zip	👤
▼	mongodb.zip	👤
▼	nginx.zip	👤
▼	nodejs.zip	👤

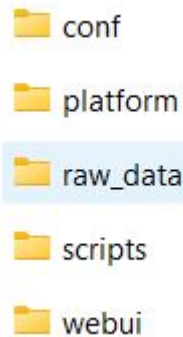
Get Started with Light Setup

- Download the zipped bundle
 - Windows 64-bit:
https://drive.google.com/file/d/1oltVQrYK1ou-Un49DKWyMjFiolFyOqi/view?usp=drive_link
 - Ubuntu & Mac OS: To be available soon
- Unzip the bundle in a folder of your choice
- You will find the following folders and files
 - TUP_START.bat - To start the platform
 - TUP_STOP.bat - to stop the platform
 - The_Uno_Platform.bat - To manage other platform processes
 - tup - The Platform content ([described here](#))



The Platform Content - “tup” folder

- You will find the following folders inside the “tup” subfolder
 - conf - Files and folders about the application configurations/settings ([described here](#)).
 - platform - The server-side app of The Uno Platform
 - raw_data - Base data of the primary application (uno_apps) for the platform setup
 - scripts - Utilities to manage the platform
 - webui - The client-side app of The Uno Platform



The Platform Content - “conf” folder

- You will find the following files and folders inside the “tup” subfolder
 - app_config.json - The custom application related configurations for data restore and dumping. Also includes the platform related configurations for various integrations prerequisite systems/environment. [More details can be found here](#)
 - nginx.conf - The platform related configuration file for NGINX. Add the following entry in the **http** section of the default configuration of the NGINX setup
 - `include "[Absolute Path to tup -> conf -> nginx.conf]]"`
 - ssl - Stores the ssl certificates for localhost. To be used by NGINX proxy server



ssl



app_config.json



nginx.conf

The Application Configuration

`conf/app_config.json`

The App Configurations - Custom Applications

- **apps**: An Array of config for each custom application hosted on the platform
 - **app_id**: The (unique) ID of the custom application
 - **dump**: MongoDB links to fetch the master data or create a copy of the application definition and raw data
 - **app_uri**: MongoDB connection URI to fetch the raw data
 - **app_def_uri**: MongoDB connection URI to fetch the application definition object
 - **disabled**: A boolean (true/false) value to ignore or consider during dump action of the platform
 - **restore**: MongoDB links to restore the master data or ingest the application definition and raw data
 - **app_uri**: MongoDB connection URI to restore the raw data
 - **app_def_uri**: MongoDB connection URI to restore the application definition object
 - **disabled**: A boolean (true/false) value to ignore or consider during restore action of the platform

```
"apps": [  
  {  
    "app_id": "uno_apps",  
    "dump": {  
      "disabled": false,  
      "app_uri": "mongodb://...",  
      "app_def_uri": "mongodb://...",  
    },  
    "restore": {  
      "disabled": false,  
    },  
  },  
  { ... },  
  { ... },  
  { ... },  
],
```

The App Configurations - MongoDB

- **mongodb**: Config for the MongoDB database integration
 - **url**: MongoDB connection URL for the backend application. If specified, it is assumed that MongoDB start/stop will be managed by user. If **url** not specified, the **path** -> **bin** shall be specified
 - **path**: Various folder paths related to MongoDB and data management
 - **bin**: Absolute path to the bin folder of MongoDB local installation
 - **data**: Absolute path to the data folder for MongoDB local installation
 - **tools_bin**: Absolute path to the bin folder of MongoDB tools for dump, restore, import, export related mongo actions
 - **dump**: Absolute path to a folder that contains the application raw data and application definitions
 - **port**: The port on which MongoDB process shall run.

```
"mongodb": {  
  "url": "",  
  "path": {  
    "bin": "C:\\F  
    "tools_bin":  
    "data": "C:\\  
    "dump": "C:\\  
  },  
  "port": "27017"  
},
```

The App Configurations - Nginx, NodeJS, Platform

- **nginx:** Config for the Nginx proxy-server integration
 - **path:** Absolute path to the Nginx local installation
- **nodejs:** Config for the Node.js integration
 - **path:** Absolute path to the Node.js local installation
- **platform:** Config for the server-side application of the platform
 - **port:** The port on which server-side application shall run. If it is different from **9898**, a corresponding update is required in **conf/nginx.conf** file
 - **remoteUpload:** A boolean (true/false) value to perform or ignore transfer of uploaded files to remote location (AWS or Azure). If **true**, it will use the app-level remote location configuration

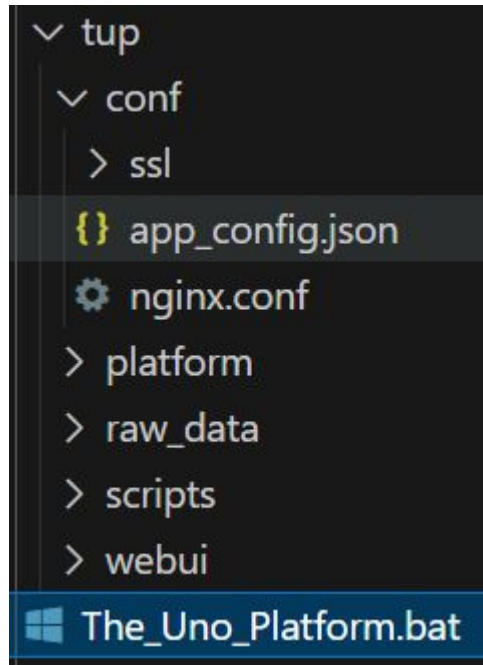
```
"nginx": {  
  "path": "C:\\tup  
},  
"nodejs": {  
  "path": "C:\\tup  
},  
"platform": {  
  "port": "9898",  
  "remoteUpload":  
}
```

Setup, Start, Stop The Platform

Get Started with [All-in-One](#)

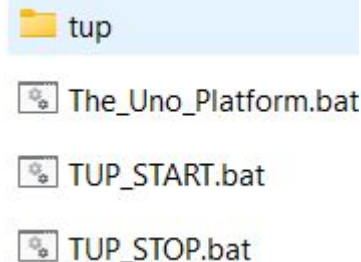
Setup the Platform

- Ensure all integration are in place
- Ensure the content of **tup** -> **raw_data** copied over to the folder mapped to **mongodb** -> **path** -> **dump** inside **app_config.json**
- To perform the platform setup, run
 - **The_Uno_Platform.bat SETUP**



Start or Stop the Platform

- Ensure all integration are in place
- Ensure initial setup is performed
- To Launch/Start the platform, run
 - **TUP_START.bat**
- Access the platform via a web browser
 - <https://localhost>
 - OR https://localhost/uno_apps
- To Stop the platform, run
 - **TUP_STOP.bat**



- For more knowledge of Platform features, refer to these YouTube videos -
 - <https://www.youtube.com/playlist?list=PL0Co2DuqsJfKSTjkkIAW8k0UvKH7AtXkU>

Re-Launch Applications

- Ensure new applications also get launched on subsequent (re)start of the platform
 - Add an entry for each application in the “**app_config.json**” file

```
"apps": [  
  {  
    "app_id": "uno_apps",  
    "dump": {  
      "disabled": true,  
      "app_uri": "mongodb://localhost:27017",  
      "app_def_uri": "mongodb://localhost:27017"  
    }  
  }  
],
```

Backup & Restore

Advanced Options - Backup Application Data

- In the “**app_config.json**” file, for the given application, ensure “dump”->“disabled” is set to **false**
- Ensure that app specific MongoDB URLs are accessible
- To dump out the application data, Run the following command
 - The_Uno_Platform.bat DUMP
- It creates a folder with given “<**app_id**>” as name inside “**mongodb ->path -> dump**” folder
- It also creates a file in the dump folder with following name
 - <**app_id**>_app_def.json

Advanced Options - Backup Application Files

- The files created or uploaded in an app are stored in the following folder
 - **"platform" -> "_uploads" -> "<app_id>"**
- Create a copy of this sub-folder (<app_id>) to backup application files

Advanced Options - Restore Application Data

- In the “**app_config.json**” file, for the given application, ensure “dump”->“disabled” is set to **false**
- Ensure the app dump folder with name “<**app_id**>” and the file named <**app_id**>_app_def.json are kept inside “**mongodb -> path -> dump**” folder
- Ensure the MongoDB process specified for the platform is accessible
- To restore the application data, Run the following command
 - **The_Uno_Platform.bat RESTORE**

Advanced Options - Restore Application Files

- The files created or uploaded in an app are stored in the following folder
 - **"platform"** -> **"_uploads"** -> **"<app_id>"**
- Copy the backed up sub-folder (<**app_id**>) containing application files in to this folder
 - **"platform"** -> **"_uploads"**

Manage Other Services

Advanced Options - Manage MongoDB

- If MongoDB paths are configured appropriately, you can start or stop the local MongoDB process
- Start the MongoDB server by running the following command
 - **The_Uno_Platform.bat MONGO.START**
- To stop the MongoDB server, run the following command
 - **The_Uno_Platform.bat MONGO.STOP**

Advanced Options - Manage Nginx

- If Nginx paths are configured appropriately, you can also start or stop the Nginx process
- Start the Nginx process by running the following command
 - **The_Uno_Platform.bat NGINX.START**
- This also launches the client-side application of The Uno Platform that is placed in “**tup -> webui**” folder
- To stop the Nginx process, run the following command
 - **The_Uno_Platform.bat NGINX.STOP**

Advanced Options - Manage Platform Server-side

- A server-side part of The Uno Platform is present in "**tup -> platform**" folder
- The server-side process is started or stopped with the overall Platform's start or stop.
- You can also independently start or stop the server-side process
- Start the server-side process by running the following command
 - **The_Uno_Platform.bat PLATFORM.START**
- To stop the server-side process, run the following command
 - **The_Uno_Platform.bat PLATFORM.STOP**

HTTPS and Port Management

Advanced Options - SSL Certificate for HTTPS

- Currently using a self-signed SSL certificate
- Certificate files are placed in the following folder
 - **"tup -> conf -> ssl"**
- To map the server to a registered domain and enable HTTPS
 - Generate SSL certificates for the given domain and the server
 - replace the certificate files in above "ssl" folder
 - Modify the server configuration in **nginx.conf** file present in **"tup -> conf"** folder

Queries & Feedback

Queries & Feedback

- Email
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- Phone/WhatsApp
 - +91 - 84316 99889
- Portal
 - <https://theunoplatform.com>



Microsoft for Startups
Founders Hub