

MATLAB® Web App Server™ Release Notes



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MATLAB® Web App Server™ Release Notes

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R2021b

Version: 1.3

New Features

Bug Fixes

Server Management: Customize apps home page

You can customize the apps home page by changing the title, background color, font type, and font size of the banner.

For details, see “Customize MATLAB Web App Server Apps Home Page”.

Deployment: Deploy web apps directly to the server from within App Designer

Once you have MATLAB® Compiler™ installed on the system running MATLAB, package your MATLAB app into a web app from within App Designer by clicking **Share** in the **Designer** tab and selecting **Web App**. In the packaging dialog, specify the server URL to directly deploy your web app to the server once packaging is complete. For details, see “Ways to Share Apps” (MATLAB).

Authentication must be enabled on the server for this functionality to work. For details, see “Authentication”.

R2021a

Version: 1.2

New Features

Bug Fixes

Policy-Based Access: Specify a policy to determine access to web apps on the server

You can specify a policy with rules to stipulate access to web apps on the server. The rules within a policy can establish which authenticated subjects have access to specific resources on the server. Subjects are usually users and resources are apps or folders. In addition, the rules can indicate the type of interaction permitted between subjects and resources. Two types of actions are supported: `execute` and `modify`. The `execute` action lets a subject run all web apps in a specified folder. The `modify` action lets the subject upload or delete a web app to or from a folder if the subject is assigned the role of `Author` in the `webapps_app_roles.json` role-based access file. Only a single policy with multiple rules is supported. For more information, see [Policy-Based Access](#).

Server Management: Create folders to organize web apps

You can create folders within the `apps` root folder of the server to organize your web apps. Only folders created at the root level are displayed on the web apps home page. Subfolders are not supported and are not displayed on the home page, even if they exist. You must use the `webapps-appdir` command-line interface to create folders. Otherwise, any folders you create will not have the required permissions. While creating folders within the `apps` root folder is optional, doing so lets you organize your web apps and apply policy-based access to web apps contained within the folders. For more information, see [Create Folders to Organize Web Apps](#).

Server Management: Restart server using `webapps-restart`

Restart MATLAB Web App Server™ using the `webapps-restart` command. You can use the `webapps-restart` command to restart the server after changing server configurations.

R2020b

Version: 1.1

New Features

Bug Fixes

Authentication: OIDC authentication schema supports URL redirection

The JSON schema for OIDC authentication now supports URL redirection. For details, see [Authentication](#).

R2020a

Version: 1.0

New Features

Authentication: Control server access using LDAP and OIDC authentication

You can validate user credentials and control which users can access the server by using authentication. MATLAB Web App Server supports authentication using Lightweight Directory Access Protocol (LDAP) and OpenID Connect (OIDC). To use authentication with the server, you create a JSON file using a prescribed schema and place it in a designated folder. For more information, see [Authentication](#).

Role-Based Access: Assign roles to users accessing the server

You can decide which users can author apps and upload them to the server and which ones can run them by using role-based access. MATLAB Web App Server supports two roles for role-based access: Author and User. An author can add, delete, and run web apps from MATLAB Web App Server, and a user can only run web apps from the MATLAB Web App Server home page. To use role-based access, you create a JSON file using a prescribed schema and place it in a designated folder. For more information, see [Role-Based Access](#).

Command-Line Scripts: Manage the server using command-line scripts

You can set up, configure, and manage MATLAB Web App Server using the command-line interface. For more information, see [Server Management](#).

The development version of MATLAB Web App Server in MATLAB Compiler has a graphical server application to manage the server. However, the MATLAB Web App Server product comes with a command-line interface that is convenient for system administrators to set up and manage the server. For information on upgrading from the development version, see [Upgrading to MATLAB Web App Server Product](#).

Web Apps: Support for web apps developed in any MATLAB release starting with R2019b

Run web apps developed in any MATLAB release starting with R2019b. To run web apps, the server requires MATLAB Runtime. Releases of MATLAB Runtime starting from R2019b up until the most recent release are supported.

Simulink Simulations: Run web apps containing Simulink simulations using Simulink Compiler

You can run web apps containing Simulink® simulations by using Simulink Compiler. Using the APIs in Simulink Compiler, you can execute a Simulink simulation within a MATLAB app. Package an app as a web app using MATLAB Compiler and deploy the app to MATLAB Web App Server. For an example, see [Simulink Simulation Web App](#).