

MATLAB® Web App Server™

Command-Line Interface Reference



MATLAB®

R2022a



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MATLAB® Web App Server™ Command-Line Interface Reference

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1	<u>Server Command Line Utilities</u>
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Server Command Line Utilities

webapps-setup

Set up MATLAB Web App Server from command line on Windows, Linux, and macOS systems

Syntax

```
webapps-setup
webapps-setup [--version | -v]
webapps-setup [--help | -h]
```

Description

`webapps-setup` sets up the MATLAB® Web App Server™ for use on the current machine.

`webapps-setup [--version | -v]` returns the version of MATLAB Web App Server installed.

`webapps-setup [--help | -h]` returns command-line help.

Examples

Set Up MATLAB Web App Server

To set up the server, at the system command line, type:

```
webapps-setup
```

```
This utility registers the MATLAB Web App Server services with the operating system.
```

```
MATLAB Web App Server requires registering two services for security purposes:
```

- A service to run the server
- A service to run the apps

```
As what user do you want to run the server service? The default user is: MwWebAppServerR2022a. >
```

```
As what user do you want to run the apps service? The default user is: MwWebAppWorkerR2022a. >
```

```
The following compatible MATLAB Runtime(s) were found on this system in the default installation
C:\Program Files\MATLAB\MATLAB Runtime\v912
```

```
Are these the MATLAB Runtime(s) you want MATLAB Web App Server to use [y]/n?y
MATLAB Web App Server services have been successfully registered.
```

```
To start the server, execute: webapps-start
```

```
To change the server configuration, execute: webapps-config
```

Get Version of MATLAB Web App Server

To get the version of server that is installed, at the system command line, type:

```
webapps-setup --version
```

```
MATLAB Web App Server (R2020a Release)
```

You can get the same information by using the abbreviated form of the syntax.

```
webapps-setup -v
```

Get Command-Line Help

To get help, at the system command line, type:

```
webapps-setup --help
```

Usage:

```
webapps-setup -h [ --help ]      Display this help message
webapps-setup -v [ --version ]    Display the version of MATLAB Web App Server
webapps-setup                     Setup MATLAB Web App Server
```

You can get the same information by using the abbreviated form of the syntax.

```
webapps-setup -h
```

See Also

[webapps-config](#) | [webapps-runtime](#) | [webapps-uninstall](#) | [webapps-status](#)

Topics

“Install or Uninstall MATLAB Web App Server Product”

“Set Up MATLAB Web App Server”

“Service Information, Groups, and Folder Locations”

“Server Logs”

Introduced in R2020a

webapps-appdir

Create folders for organizing web apps from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-appdir add dirname
webapps-appdir update dirname
webapps-appdir [--version | -v]
webapps-appdir [--help | -h]
```

Description

`webapps-appdir add dirname` creates a folder named `dirname` within the `apps` root folder to organize web apps. The `dirname` folder is created with necessary permissions.

`webapps-appdir update dirname` updates a folder named `dirname` within the `apps` root folder with necessary permissions.

`webapps-appdir [--version | -v]` returns the version of MATLAB Web App Server that is installed.

`webapps-appdir [--help | -h]` returns command-line help.

Examples

Create New Folder

To create a folder within the `apps` root folder that has the necessary permissions, at the system command line, type:

```
webapps-appdir add VenusProgram
```

Update Existing Folder

To update an existing folder within the `apps` root folder with the necessary permissions, at the system command line, type:

```
webapps-appdir update MarsProgram
```

The `update` option sets the required permissions to an existing folder that was created using operating system-specific folder creation commands.

Input Arguments

dirname — Name of folder

string

Specify the name of the folder you want to create or update within the `apps` root folder with the necessary permissions.

Example: CassiniProgram

Tips

- The `webapps-appdir` command creates folders with the necessary permissions within the `apps` root folder. If you use operating-system specific commands to create folders, use the `webapps-appdir` command with the `update` option to set the folder with necessary permissions.

See Also

`webapps-restart` | `webapps-setup`

Introduced in R2021a

webapps-config

Configure MATLAB Web App Server from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-config get
webapps-config get keyname
webapps-config set keyname val
webapps-config help keyname
```

Description

`webapps-config get` returns the current MATLAB Web App Server configuration.

`webapps-config get keyname` returns the value associated with the key `keyname`.

`webapps-config set keyname val` assigns the value `val` to the key `keyname`.

`webapps-config help keyname` displays help for the key `keyname`.

Examples

Get Current Server Configuration

To retrieve the current server configuration, at the system command line, type:

```
webapps-config get
    port: 9988
    apps_path: C:\ProgramData\MathWorks\webapps\R2022a\apps
    logs_path: C:\ProgramData\MathWorks\webapps\R2022a\logs
    logging_level: normal
    log_archive_max_size_mb: 50
    log_rotation_size_mb: 10
    maximum_sessions: 63
    session_idle_timeout_minutes: 5
    startup_timeout_seconds: 45
    ssl_enabled: false
    ssl_certificate_file:
    ssl_private_key_file:
```

Get Configuration Value for Specific Key

To retrieve a configuration value for a specific key, at the system command line, type:

```
webapps-config get port
```

```
9988
```

Set Configuration Value for Specific Key

To set a configuration value for a specific key, at the system command line, type:

```
webapps-config set port 9999
```

Successfully changed "port". Changes will be applied the next time the server is started.

Verify that the port has been changed.

```
webapps-config get port
```

```
9999
```

Get Help for Specific Configuration Key

To get help for a specific configuration key, at the system command line, type:

```
webapps-config help logs_path
```

Folder where server logs are written

Enable SSL and Set Location to Certificate File and Private Key File

To enable SSL, at the system command line, type:

```
webapps-config set ssl_enabled true
webapps-config set ssl_certificate_file /home/user/my_server_certificate.pem
webapps-config set ssl_private_key_file /home/user/my_private_key.pem
```

Input Arguments

keyname — Configuration key

string

keyname	Description
port	Port that the server runs on.
license	Host name and port of the license server or a path to the license file.
apps_path	Path to folder containing the web apps.
logs_path	Path to folder containing the log files.
logging_level	Level of logging granularity. The options are: 'normal' 'verbose' 'minimal'
log_archive_max_size_mb	Maximum size of all log files in megabytes (MB) in the log directory.
log_rotation_size_mb	Maximum size of a log file in megabytes (MB) before it rolls over into another file.
maximum_sessions	Maximum number of sessions allowed by server.
session_idle_timeout_minutes	Timeout in minutes before terminating a session when idle.
startup_timeout_seconds	Timeout in seconds when starting a new session.
ssl_enabled	Verify if SSL is enabled.
ssl_certificate_file	Location of the SSL certificate file.
ssl_private_key_file	Location of the SSL private key file.

keyname	Description
start_nolminit	Specify whether server can start without initializing license manager

val — Configuration value

numeric or string

keyname	val	Default Value
port	Port number specified as a positive integer between 1 and 65535.	9988
license	Host name and port number of the license server or a path to the license file.	For example ^a : <ul style="list-style-type: none"> • 27000@myLicenseServer • C:\myLicenses\license.lic • C:\myLicenses\license.dat
apps_path	Path to folder containing the web apps. Specify as a string.	<ul style="list-style-type: none"> • Windows[®] C:\ProgramData\MathWorks\webapps\R20 • Linux[®] /local/MathWorks/webapps/R2022a/app • macOS /Library/Application Support/MathWor
logs_path	Path to folder containing the log files. Specify as a string.	<ul style="list-style-type: none"> • Windows C:\ProgramData\MathWorks\webapps\R20 • Linux /local/MathWorks/webapps/R2022a/log • macOS /Library/Application Support/MathWor
logging_level	Level of logging granularity. Specify as a string. The options are: 'normal' 'verbose' 'minimal'	normal
log_archive_max_size_mb	Maximum size of all log files in megabytes (MB) in the log directory. Specify as a positive integer.	50 MB
log_rotation_size_mb	Maximum size of a log file in megabytes (MB) before it will roll over into another file. Specify as a positive integer.	10 MB

keyname	val	Default Value
maximum_sessions	Maximum number of sessions allowed by server. Specify as a positive integer.	1 session per gigabyte (GB) of RAM.
session_idle_timeout_minutes	Timeout in minutes before terminating a session when idle. Specify as a positive integer.	5
startup_timeout_seconds	Timeout in seconds when starting a new session. Specify as a positive integer.	45
ssl_enabled	Verify if SSL is enabled specified as Boolean.	false
ssl_certificate_file	Location of the SSL certificate file. Specify as a string.	
ssl_private_key_file	Location of the SSL private key file. Specify as a string.	
start_nolminit	Specify whether server can start without initializing license manager. Specify as boolean.	false

^a To know the difference between `license.lic` and `license.dat` files, see MATLAB Answers.

See Also

`webapps - setup` | `webapps - runtime` | `webapps - status`

Topics

“Service Information, Groups, and Folder Locations”

“Server Logs”

External Websites

What are the differences between the `license.lic`, `license.dat`, `network.lic`, and `license_info.xml` license files?

Introduced in R2020a

webapps-restart

Restart MATLAB Web App Server service from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-restart  
webapps-restart [--version | -v]  
webapps-restart [--help | -h]
```

Description

webapps-restart stops and starts the MATLAB Web App Server.

webapps-restart [--version | -v] returns the version of MATLAB Web App Server installed.

webapps-restart [--help | -h] returns command-line help.

Examples

Restart MATLAB Web App Server

To restart the server, at the system command line, type:

```
webapps-restart
```

See Also

webapps-status | webapps-start | webapps-stop

Introduced in R2021a

webapps-runtime

Configure MATLAB Runtime for use with MATLAB Web App Server from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-runtime list
webapps-runtime add runtime_path
webapps-runtime remove
webapps-runtime remove runtime_path
webapps-runtime [--version | -v]
webapps-runtime [--help | -h]
```

Description

`webapps-runtime list` returns the list of currently configured versions of MATLAB Runtime.

`webapps-runtime add runtime_path` adds the path to a MATLAB Runtime installation, specified by `runtime_path`, to the server configuration.

`webapps-runtime remove` starts an interactive prompt to remove paths to MATLAB Runtime installations from the server configuration.

`webapps-runtime remove runtime_path` removes the path to a MATLAB Runtime installation, specified by `runtime_path`, from the server configuration.

`webapps-runtime [--version | -v]` returns the version of MATLAB Web App Server that is installed.

`webapps-runtime [--help | -h]` returns command-line help.

Examples

List MATLAB Runtime Installations

To get a list of MATLAB Runtime configured for use with the server, at the system command line, type:

```
webapps-runtime list
C:\Program Files\MATLAB\MATLAB Runtime\v912
/usr/local/MATLAB/MATLAB_Runtime/v912
```

Add MATLAB Runtime Path

To add the path to a MATLAB Runtime installation to the server configuration, at the system command line, type:

```
webapps-runtime add "C:\Program Files\MATLAB\MATLAB Runtime\v98"
```

MATLAB Runtime configuration updated. Changes will be applied the next time the server is started.

Remove MATLAB Runtime Path

To remove the path to a MATLAB Runtime installation from the server configuration, at the system command line, type:

```
webapps-runtime remove "C:\Program Files\MATLAB\MATLAB Runtime\v98"
```

MATLAB Runtime configuration updated. Changes will be applied the next time the server is started.

Get Version of MATLAB Web App Server

To get the version of MATLAB Web App Server that is installed, at the system command line, type:

```
webapps-runtime --version
```

```
MATLAB Web App Server (R2022a Release)
```

Get Command-Line Help

To get help for the current command, at the system command line, type:

```
webapps-runtime --help
```

Usage:

webapps-runtime -h [--help]	Display this help message
webapps-runtime -v [--version]	Display the version of MATLAB Web App Server
webapps-runtime list	Lists currently configured MATLAB Runtimes
webapps-runtime add <runtime-path>	Adds runtime-path to the MATLAB Runtime configuration
webapps-runtime remove	Launch interactive prompt to remove MATLAB Runtimes from the MATLAB Runtime configuration
webapps-runtime remove <runtime-path>	Removes runtime-path from the MATLAB Runtime configuration

Input Arguments

runtime_path — Path to MATLAB Runtime installation

string

Specify the path to the MATLAB Runtime installation that you want to add to the server configuration or remove from the server configuration.

Example: "C:\Program Files\MATLAB\MATLAB Runtime\v98"

See Also

[webapps-config](#) | [webapps-status](#) | [webapps-setup](#)

Topics

"Configure Server to Use MATLAB Runtime"

Introduced in R2020a

webapps-uninstall

Uninstall MATLAB Web App Server services at the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-uninstall
webapps-uninstall [--version | -v]
webapps-uninstall [--help | -h]
```

Description

`webapps-uninstall` removes the services associated with MATLAB Web App Server from the system. Executing `webapps-uninstall` does not uninstall the product.

`webapps-uninstall [--version | -v]` returns the version of MATLAB Web App Server that is installed.

`webapps-uninstall [--help | -h]` returns command-line help.

Examples

Uninstall MATLAB Web App Server Services

```
webapps-uninstall
Uninstallation successful.
```

Get Version of MATLAB Web App Server

To get the version of MATLAB Web App Server that is installed, at the system command line, type:

```
webapps-uninstall --version
MATLAB Web App Server (R2022a Release)
```

Get Command Line Help

To get help for the current command, at the command line, type:

```
webapps-uninstall --help
Usage:
  webapps-uninstall -h [ --help ]      Display this help message
  webapps-uninstall -v [ --version ]   Display the version of MATLAB Web App Server
  webapps-uninstall                    Uninstall MATLAB Web App Server
```

See Also

`webapps-status` | `webapps-config` | `webapps-stop` | `webapps-start`

Topics

“Server Startup Failures”

Introduced in R2020a

webapps-start

Start MATLAB Web App Server service from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-start  
webapps-start [--version | -v]  
webapps-start [--help | -h]
```

Description

webapps-start starts the MATLAB Web App Server.

webapps-start [--version | -v] returns the version of MATLAB Web App Server installed.

webapps-start [--help | -h] returns command-line help.

Examples

Start MATLAB Web App Server

To start the server, at the system command line, type:

```
webapps-start
```

See Also

webapps-stop | webapps-status

Introduced in R2020a

webapps-stop

Stop the MATLAB Web App Server service from the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-stop  
webapps-stop [--version | -v]  
webapps-stop [--help | -h]
```

Description

`webapps-stop` stops the MATLAB Web App Server.

`webapps-stop [--version | -v]` returns the version of MATLAB Web App Server installed.

`webapps-stop [--help | -h]` returns command line help.

Examples

Stop the MATLAB Web App Server

To stop the server, at the system command line, type:

```
webapps-stop
```

See Also

`webapps-start` | `webapps-status`

Introduced in R2020a

webapps-status

Get status of MATLAB Web App Server at the command line on Windows, Linux, and macOS systems

Syntax

```
webapps-status  
webapps-status [--version | -v]  
webapps-status [--help | -h]
```

Description

webapps-status displays the status of the MATLAB Web App Server.

webapps-status [--version | -v] returns the version of MATLAB Web App Server installed.

webapps-status [--help | -h] returns command line help.

Examples

Get Status of the MATLAB Web App Server

To get the status of the server, at the system command line, type:

```
webapps-status
```

```
Server Status: Stopped  
Apps Folder: C:\ProgramData\MathWorks\webapps\R2022a\apps  
Logs Folder: C:\ProgramData\MathWorks\webapps\R2022a\logs
```

See Also

webapps-setup | webapps-config

Introduced in R2020a

