

Toad® DevOps Toolkit 1.5

Release Notes

9/13/2021

These release notes provide information about the Toad DevOps Toolkit release.

About this release

Toad DevOps Toolkit 1.5 is a minor release, with enhanced features and functionality.

About Toad DevOps Toolkit

Toad DevOps Toolkit exposes key Toad for Oracle functionality (such as Code Analysis and Unit Testing) as programmable objects that can be called from DevOps scripts such as PowerShell or Visual Basic. This enables you to include database-development steps into your Continuous Integration model through tools such as Jenkins or Bamboo. What this all really means is that the deployment of Oracle application and database upgrades is now made much easier, keeping your team more productive and your end users satisfied with their business tools.

Toad DevOps Toolkit is standalone and independent from Toad for Oracle. The only requirement is that a Code Tester for Oracle repository is installed on the same system as Toad DevOps Toolkit. For version requirements, see the System Requirements.

Toad resources

The parent site for all Toad family products is [ToadWorld.com](https://www.toadworld.com). There you will find videos, blogs, and much more. The home of the Toad DevOps Toolkit community is <https://www.toadworld.com/products/toad-devops-toolkit>. Keep checking this site as Toad DevOps Toolkit continues to grow and add features to help you increase your productivity.

Two of the most-often used features of Toad World are the Forums and the Idea Pond. Find the Toad DevOps Toolkit Forum at: <https://forums.toadworld.com/c/toad-devops-toolkit>. Find the Toad DevOps Toolkit Idea Pond at: <https://forums.toadworld.com/c/toad-devops-toolkit/idea-pond>.

- On the Idea Pond page, you can submit your ideas to improve Toad DevOps Toolkit and vote for other ideas. The Toad team takes your suggestions seriously, and you may even hear back from one of our developers on the topic. We encourage all Toad users from new to experienced to let us know how we can improve Toad.
- On the Forum page, you can ask a question or start a discussion and view all other forums within the Toad community.

The Toad World blog pages feature a broad range of information, including topics of interest to our industry, as well as instructions from team members on how to use the latest Toad features.

System requirements

Hardware requirements

| Requirement | Details |
|------------------|---|
| Memory | <ul style="list-style-type: none">• 1 GB RAM• 2 GB RAM <p>NOTE: The memory required may vary based on the following:</p> <ul style="list-style-type: none">• Applications that are running on your system• Size and complexity of the database• Amount of database activity• Number of concurrent users accessing the database |
| Hard disk space | <ul style="list-style-type: none">• 120 MB• 150 MB |
| Operating system | <ul style="list-style-type: none">• Windows 8.1• Windows 10• Windows Server 2012 R2 - 2 CPU required• Windows Server 2016• Windows Server 2019 |

Database requirements

| Requirement | Details |
|-----------------|---|
| Database client | <p>An Oracle client must be installed and configured on the system where you are running Toad DevOps Toolkit. The following are supported:</p> <ul style="list-style-type: none">• Oracle Client or Instant Client 10.2.0.5• Oracle Client or Instant Client 11.2.0.1/11.2.0.3• Oracle Client or Instant Client 12c Release 1 and 2• Oracle Client or Instant Client 18c |

| Requirement | Details |
|------------------------|---|
| | <ul style="list-style-type: none"> Oracle Client or Instant Client 19c <p>NOTE: You must use the 32-bit version of Toad DevOps Toolkit with the 32-bit Oracle client, and the 64-bit version of Toad DevOps Toolkit with the 64-bit Oracle client.</p> |
| Database server | <ul style="list-style-type: none"> 10g Release 2 11g Release 1 and 2 12c Release 1 and 2 18c 19c 21c (Linux and Oracle Cloud Infrastructure) <p>IMPORTANT: It is recommended that your client version be of the same release (or later) as your database server. This is an Oracle recommendation to prevent performance issues.</p> |
| Cloud database service | Oracle Database as a Service on Amazon EC2 and Oracle Cloud |

Additional requirements

- Microsoft .NET Framework 4.5 is required to run the Quest Installer, which installs Toad DevOps Toolkit.
- Microsoft ASP.NET Core 3.1 and .NET Core 3.1 are required to run the REST API.
- If you want to run unit testing for database objects, a Code Tester repository (3.2 or greater) must exist on the system where Toad DevOps Toolkit is being used.

Windows Privileges

In order to run Toad DevOps Toolkit against the database, the following privileges are required:

| Operating System | Requirements |
|---|---|
| Windows 7 | <ul style="list-style-type: none"> Read access to the Oracle client folder Read/write privileges on the Oracle Home directories that you use for your connections |
| Windows 8 and later Windows Server 2012 and 2016 | <ul style="list-style-type: none"> Read access to the Oracle client folder Read/write privileges on the Oracle Home directories that you use for your connections |

New features

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Oracle Database 21c Support

Existing Toad DevOps Toolkit features work with 21c on Linux and Oracle Cloud Infrastructure.

Note: Oracle Database 21c has not been released for Windows at time of publication.

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REST API Security

All requests must supply an API token to validate the request. Failure to do so results in an error response status code.

- Visit <https://localhost:5000/> in your browser to generate or later refresh the token's value
 - This step must be performed using a Windows Administrator account
 - If the REST API has been configured to listen on a different port then use the new port in the URL
- Supply the token with each request by including the X-API-Key header and using the token as its value

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REST API

A new REST API has been added. The REST API runs a localhost web service that listens on port 5000, by default.

Perform the following steps to change the port:

- Stop the "Quest Software Toad DevOps Toolkit (REST)" Windows Service
- Edit the ".\Service\appsettings.json" file found in Toad DevOps Toolkit installation folder and change the

port to a new value

- Start the "Quest Software Toad DevOps Toolkit (REST)" Windows Service

Code Analysis Enhancements

- Running a Code Analysis now returns a result code. This allows you to execute a second action based on the result code returned after running a Code Analysis.
- A new property, RulesetName, allows you to find the list of available ruleset names so you can choose a ruleset (pre-defined or user-defined).

Discontinued Features

Licensing Manager. Beginning with Toad DevOps Toolkit 1.2, the Licensing Manager is no longer available. For more information about managing Toad DevOps Toolkit licenses, see the *Toad DevOps Toolkit Installation Guide* and *Toad DevOps Toolkit Help*.

Resolved issues

The following is a list of issues addressed and enhancements implemented in this release of Toad DevOps Toolkit.

Toad DevOps Toolkit 1.5

The following list of resolved issues includes issues received from the Toad DevOps Toolkit forum.

| Issue ID | Link to Forum Post | Resolved Issue |
|----------|--------------------|--|
| TDT-428 | | Licensing: Exception occurs when adding a new Term or Trial license and when using Toad DevOps Toolkit if a Term or Trial license was already in place from an older version |

Toad DevOps Toolkit 1.4

The following list of resolved issues includes issues received from the Toad DevOps Toolkit forum.

| Issue ID | Link to Forum Post | Resolved Issue |
|----------|--------------------|---|
| TDT-402 | | .NET Core 2.2 has reached end of life yet it is required for the REST API |

Toad DevOps Toolkit 1.3

The following list of resolved issues includes issues received from the Toad DevOps Toolkit forum.

| Issue ID | Link to Forum Post | Resolved Issue |
|----------|--------------------|---|
| TDT-180 | | Code Analysis does not load object DDL unless object type is upper case |
| TDT-181 | | Code Analysis job succeeds when it should fail |

You can find the most up-to-date list of resolved issues for this release in the *Toad DevOps Toolkit Release Notes* found at: <https://support.quest.com/toad-devops-toolkit/technical-documents>.

Product licensing

Before you can use Toad DevOps Toolkit, you must apply your license key. A **.dlv** license file containing a valid license key is used to license Toad DevOps Toolkit.

License Files

Quest provides you with a license file (.dlv) containing a valid license.

When Toad DevOps Toolkit is installed, a license configuration file (License.cfg) is installed in C:\ProgramData\Quest Software\Toad DevOps Toolkit. This configuration file specifies a default path to the .dlv file.

You can place the .dlv file in the default location specified in the configuration file, or you can place the .dlv file in a new location and then change the specified path in the License.cfg file.

Upon initial launch, Toad DevOps Toolkit reads the .dlv file and caches the license locally (in the ProductLicenses.xml file). When the locally-cached license expires, Toad DevOps Toolkit again searches the .dlv file (location specified by the License.cfg file) for a valid license.

To manually apply a license for Toad DevOps Toolkit

1. Obtain a **.dlv** license file containing a valid license from Quest. In most cases, Quest provides this file to you by email.
2. Then do one of the following:
 - Place this file in the location specified in the **License.cfg** file.
 - Place the file in a location of your choosing and then follow the steps in “To add a license using a script.”
3. Start Toad DevOps Toolkit.

To add a license using a script

- You can add a license from a **.dlv** file by running the following command using PowerShell:

```
$TDT = New-Object -ComObject 'Toad.ToadAutoObject'  
$TDT.Licensing.AddLicense('full_path')  
$TDT.Quit()
```

where *full_path* is the full path and file name of the **.dlv** file containing the license to add

Example: `$TDT.Licensing.AddLicense('C:\mynewlicense.dlv')`

NOTE: For more information about managing Toad DevOps Toolkit licenses, see the *Toad DevOps Toolkit Installation Guide* and *Toad DevOps Toolkit Help*.

Global Operation Statement

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

This release has the following known capabilities or limitations: Toad DevOps Toolkit 1.5 is a Unicode application. As such, it supports Oracle Unicode character sets, such as UTF8 and AL32UTF8. There are some features in Toad DevOps Toolkit which use or invoke Oracle Utilities or applications which are not themselves Unicode applications. Their functionality is therefore limited to the character set of the client on which Toad DevOps Toolkit is running, and NLS_LANG must be carefully set to match the Windows character set

We have also observed issues with US7ASCII when used with non Latin characters.

Third-party contributions

This product contains the following third-party components. For third-party license information, go to <https://www.quest.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <https://opensource.quest.com>.

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(an example is provided in the Appendix below).

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