

TDengine Historian All-in-One Installer — Windows User Guide

1. System Requirements

Item	Requirement
Operating System	Windows 10 (1803+)
Architecture	x86_64 (64-bit)
Disk Space	At least 25 GB free on C: drive
Memory	At least 16 GB, 32 GB recommended
Privileges	Must run with administrator privileges
Network	Not required; fully offline installation supported

The installer bundles the following dependencies and will install them automatically if missing:

- Microsoft Visual C++ Redistributable x64
- Java 21+
- Python 3.11

2. Package Contents

The TDengine Historian installer consists of two parts:

- TDengine Historian main installer (required; includes TSDB, IDMP, TDgpt, and base environment dependencies), e.g.: `tdengine-historian-1.0.15.3-windows-x64.tar.gz`
- TDgpt offline model package (optional; contains multiple large models, ~8.2 GB), e.g.: `tdengine-tdgpt-model-resource-1.0.tar.gz`

Note: The TDgpt offline model package is only needed when you want to use offline models. Skipping it does not affect the core functionality of Historian — only variable prediction, data imputation, anomaly detection, envelope, and correlation analysis features are affected.

After extracting the main installer, the directory structure is as follows:

```
tdengine-historian-1.0.15.3-windows-x64/
├─ install.bat           One-click install script
├─ start-services.bat   One-click start script
├─ stop-services.bat    One-click stop script
├─ check-status.bat     Status check script
├─ uninstall-all.bat   Full uninstall script
├─ resolve-java21.ps1   Java 21 resolution helper script
├─ README.md            English instructions
├─ README-CN.md        Chinese instructions
├─ packages/
│   └─ tdengine-tsdb-enterprise-3.4.1.0-windows-x64.exe
│       |
│       |           TDengine TSDB installer
│   └─ tdengine-tdgpt-enterprise-3.4.1.0-windows-x64.exe
│       |
│       |           TDgpt installer
│   └─ tdengine-idmp-enterprise-1.0.15.3-windows-x64.exe
│       |
│       |           IDMP installer
│   └─ tdengine-tdgpt-venv-offline-1.0.tar
│       |
│       |           TDgpt runtime virtual environment offline pa
│   └─ tdengine-idmp-offline-1.0.tar
│       |
│       |           IDMP offline package
│   └─ tdengine-base-env-offline-1.0.tar
│       |
│       |           Java 21 + VC++ Runtime offline dependencies
```

3. Quick Start

Step 1: Install All Components

Right-click `install.bat` → **Run as administrator**

The script will automatically:

1. Perform system checks
2. Install VC++ Runtime (if missing), Java 21 (if missing), Python 3.11
3. Install TDengine TSDB
4. Install TDengine IDMP (including offline package)
5. Install TDgpt (optional model offline package; may take a while)

Step 2: Start All Services

Right-click `start-services.bat` → **Run as administrator**

Startup order:

Order	Service	Port
1	TDgpt main service (Taosanode)	6035
2	TDgpt model services	All bundled models started by default
3	TSDB services	6030 / 6041 / 6060
4	Auto-create anode	Connects TSDB with TDgpt
5	IDMP service	6042

Step 3: Check Status

Right-click `check-status.bat` → **Run as administrator**

Access the following:

- **TSDB Explorer:** <http://localhost:6060>
- **IDMP:** <http://localhost:6042>
- **TDgpt:** <http://localhost:6035>

You can also run the following in a command prompt:

```
taos -s "select server_status();"
taos -s "show anodes;"
```

4. Stop Services

Right-click `stop-services.bat` → **Run as administrator**

Shutdown order:

1. IDMP
2. TSDB (all services)
3. TDgpt model services
4. TDgpt main service

5. Services and Ports

Product	Service / Component	Port	
TDgpt	Taosnode	6035, 6036, 6037	
	tdtsfm model	6061	
	timemoe model	6062	
	chronos model	6063	
	moirai model	6064	
	timesfm model	6065	
	moment model	6066	
	TSDB	taosd	6030
		taosadapter	6041
taos-explorer		6060	
taoskeeper		internal	
taosx		internal	
IDMP	tdengine-idmp	6042	
	tdengine-idmp-chat	6040	
	tdengine-idmp-h2	internal	

6. Log Locations

TDengine Historian logs:

Log	Path
Installation log	C:\TDengine\ aio-installer\install-log.txt
Startup log	C:\TDengine\ aio-installer\startup-log.txt

Product logs:

Product	Path
TSDB	C:\TDengine\log\
TDgpt	C:\TDengine\taosnode\log\
IDMP	C:\TDengine\log\

7. Troubleshooting

7.1 Installation Failure

- Ensure you are running with **administrator privileges**
- Check the installation log: C:\TDengine\ aio-installer\install-log.txt
- Verify at least **25 GB** free space on C: drive
- Verify the `packages` directory is complete

7.2 Quick Status Check

```
Run check-status.bat
```

This displays:

- Service status grouped by product
- Key port listening status grouped by product
- Basic health check results grouped by product (only performed when the product' s main service is running)
- TDgpt model running status
- Log directories and access URLs grouped by product

If a product' s main service is stopped, the script will skip the connectivity check for that product.

7.3 TDgpt Startup Failure

Action	Command
View logs	C:\TDengine\taosnode\log\
Check port	netstat -ano findstr 6035
Check service	sc query Taosnode

Action	Command
Manually start main service	<code>C:\TDengine\taosnode\bin\start-taosnode.bat</code>
Manually start models	<code>C:\TDengine\taosnode\bin\start-model.bat</code> <code>all</code>
View model status	<code>C:\TDengine\taosnode\bin\status-model.bat</code>

7.4 TSDB Startup Failure

Action	Command
View logs	<code>C:\TDengine\log\taosdlog.*</code>
Check port	<code>netstat -ano findstr 6030</code>
Check service	<code>sc query taosd</code>
Manually start	<code>C:\TDengine\start-all.bat</code>

7.5 IDMP Startup Failure

Action	Command
View logs	<code>C:\TDengine\log\</code>
Check port	<code>netstat -ano findstr 6042</code>
Check AI service port	<code>netstat -ano findstr 6040</code>
Check service	<code>sc query tdengine-idmp</code>
Check AI service	<code>sc query tdengine-idmp-chat</code>
Check H2 service	<code>sc query tdengine-idmp-h2</code>
Manually start	<code>C:\TDengine\idmp\bin\start-tdengine-idmp.bat</code>

8. Uninstallation

Step 1: Stop All Services

Run `stop-services.bat`

Step 2: Recommended Full Uninstall

```
Run uninstall-all.bat
```

The script will:

- Stop all TDengine / TDgpt / IDMP services
- Silently run the TSDB / TDgpt / IDMP uninstallers
- Delete `C:\TDengine` and clean up residual cfg / data / log files

Step 3: Per-Product Uninstall (Fallback)

Uninstall the following components in **Windows Settings** → **Apps**:

- TDengine TSDB
- TDgpt
- TDengine IDMP

Or run directly:

```
"C:\TDengine\unins000.exe" /SILENT  
"C:\TDengine\taosnode\unins000.exe" /SILENT  
"C:\TDengine\idmp\unins000.exe" /SILENT
```

Step 4: Manual Cleanup

If you did not use `uninstall-all.bat`, manually clean up:

```
rmdir /s /q C:\TDengine
```

9. Support

Channel	Link
Documentation	https://idmpdocs.tdengine.com