# Table of Contents

1. Introduction to NosDB .................................................................................................................. 3
2. Getting Started ............................................................................................................................. 4
   2.1. What to Install during Evaluation? ......................................................................................... 4
   2.2. Installation Options ................................................................................................................. 4
   2.3. Database Requirements ........................................................................................................... 5
       2.3.1. Hardware Requirements ................................................................................................. 5
       2.3.2. Software Requirements ................................................................................................. 5
3. Interactive Windows Installation .................................................................................................. 6
4. Scripted Installation ...................................................................................................................... 17
   4.1. Install NosDB .......................................................................................................................... 17
       4.1.1. NosDB Enterprise Edition ............................................................................................ 17
       4.1.2. NosDB Professional Edition ......................................................................................... 18
       4.1.3. NosDB Open Source Edition ....................................................................................... 18
   4.2. Uninstall NosDB ................................................................................................................... 18
       4.2.1. Command Prompt Uninstallation ............................................................................... 18
       4.2.2. Control Panel Uninstallation ....................................................................................... 19
5. Evaluation Period Expiration and Extension .............................................................................. 20
   5.1. Indications of NosDB Being Expired ................................................................................... 20
   5.2. Extending Evaluation Period ............................................................................................... 20
6. Activate NosDB Purchased License ........................................................................................... 23
   6.1. Online Activation .................................................................................................................. 26
   6.2. Manual Activation .................................................................................................................. 29
7. Deactivate NosDB Purchased License ....................................................................................... 37
   7.1. Online Deactivation .............................................................................................................. 39
   7.2. Manual Deactivation .............................................................................................................. 41
8. Command Line Activation ......................................................................................................... 44
9. Licensing Model ......................................................................................................................... 45
1. **Introduction to NosDB**

Welcome to NosDB! NosDB is a schema-less and scalable NOSQL database solution to handle ad-hoc querying on huge amounts of real-time, unstructured data. As NosDB scales out to accommodate the rapidly increasing volume of your data, it applies robust data distribution strategies to ensure availability and fault tolerance at all times. Keeping in mind the suitability of NosDB for Big Data applications, MapReduce and Aggregation support has also been introduced to dramatically enhance performance due to parallel processing.

NosDB features and tools are designed to be tuned flexibly into applications of any size – from small to enterprise-wide global installations.

**Support**

NosDB provides various sources of technical support. Please refer to [Alachisoft’s Support page](#) to select a support resource you find suitable for your issue.

To request additional features in the future, or if you notice any discrepancy regarding this document, please drop an email to support@alachisoft.com.

**Document Conventions**

The following conventions in text have been used throughout this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bold</strong></td>
<td>Specifies terms of importance for the reader.</td>
</tr>
<tr>
<td><strong>courier</strong></td>
<td>Specifies file, class, interface names.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Specifies command line snippets.</td>
</tr>
<tr>
<td>📜</td>
<td>Specifies additional and vital information for the user.</td>
</tr>
</tbody>
</table>
2. Getting Started

NosDB provides a Windows Installer Package (.MSI) to let you easily install NosDB. However, before you install NosDB, you need to keep the following in mind:

2.1. What to Install during Evaluation?

NosDB offers the following three editions:

1. NosDB Professional
2. NosDB Enterprise
3. NosDB Open Source

Regardless of which NosDB edition you ultimately end up using, we recommend you to evaluate NosDB with NosDB Enterprise Edition. NosDB Enterprise Edition includes the full set of features provided by NosDB. This lets you decide whether to stay with NosDB Enterprise or downgrade to NosDB Professional or Open Source, based on your needs.

2.2. Installation Options

Whether you install NosDB Enterprise or Professional, the following installation options are provided after running the .MSI file:

NosDB Server

This is a full installation of NosDB with remote client included. You must install this on any server where you are going to host the configuration cluster, regardless of whether you have dedicated or shared NosDB servers. For smaller environments, even using your web/app servers as NosDB servers is fine, as long as you have enough memory available on these machines.

Remote Client

Any server that is not hosting the configuration cluster but accessing it remotely across the network is considered a NosDB remote client. This installation option installs the local client libraries on all servers so you can access the database across the network.
2.3. Database Requirements

2.3.1. Hardware Requirements

- Dual-CPU, Quad-Core or higher
NosDB is a highly multi-threaded software and takes full advantage of extra cores and CPUs. The most common configuration for NosDB is a dual-CPU quad-core machine. You may need stronger processing power if you have higher transaction loads and/or larger amount of data being stored in NosDB.

2.3.2. Software Requirements

- Windows Server 2008 R2, Windows Server 2012 R2 (64-bit)
- .NET Framework 4.0/4.5/4.6
- Windows 7/8.1/10 (These versions of Windows are not highly recommended for production.)
- Minimum 8 GB RAM in Servers
NosDB works efficiently with 8 GB RAM, however 16 GB RAM servers are highly recommended for optimum performance.

- Minimum 500 MB Disk Space
NosDB requires a minimum disk space of 500 MB. However, please keep in mind that the required disk space basically depends on the scale on which NosDB is being used, so it varies based on the volume of data being stored.

In case you wish to get specific recommendations for your needs, please consult Alachisoft’s technical support.
3. Interactive Windows Installation

NosDB can also be installed via an interactive Windows installer.

We recommend you to run your evaluation using the NosDB Enterprise Edition. You can later decide whether you want to downgrade to NosDB Professional or not, based on your needs.

- Right-click on the .MSI file `NosDB_x.x_Enterprise_DotNet_x64.msi` and select **Run as Administrator**.

- The following **Welcome to the NosDB Installation Wizard** screen appears:

  ![Welcome to the NosDB Installation Wizard](image)

- Click **Next**.

- The next screen asks you to accept the license agreement. By clicking **I accept the terms in the License Agreement**, you are making a legal commitment to abide by the Alachisoft Software License Agreement for NosDB. You cannot proceed without accepting the license agreement.
• The Select NosDB Installation Type appears.

  - Select the type of NosDB which you want to install.
  - Click Next.
• **Evaluation Information** dialog appears which asks for the installation key. This is the key which you have received from Alachisoft.

![Evaluation Information dialog]

Even when you have purchased NosDB and have a license key, you must provide the INSTALL KEY here (and not the purchased license key). You will get an opportunity later to specify your purchased license key when you activate your licenses.

• If you do not have an installation key, please click on **Get Installation Key** button which takes you to Alachisoft website to register and obtain an installation key.
If you are already registered, just enter your email address and an installation key will be emailed to you. Otherwise, register by specifying information to receive the installation key via email.

- In **User Information** dialog, enter your name, company name, and email address. This information will be displayed as part of NosDB to indicate your identity.

- Click **Next**.
By default, NosDB is installed in “C:\Program Files\NosDB” folder. However, if you want to change this location, you can specify it in the next window.

Click Next.
In the **Select features** window, you can see all the components that will be installed automatically. You can unselect some of the components if you wish. However, it is strongly recommended that you keep everything as default.

![Select Features Window](image)

- To view the disk space in your system, click on **Disk Cost**.

- **Disk Space Requirements** appears, displaying the available and required disk space, and the difference between the two. In case the disk space is not enough, the volumes will be highlighted.

- Click **OK** to go back to the **Select Features** window.
- After selection of the features, click **Next**.

- **NosDB Configuration** window appears. Specify the credentials for the NosDB system administrator account (created as “admin” by default).
• **NosDB Configuration** screen appears. Provide the directory where you wish to store the data files, index files, configuration files and journals.

- If you have multiple NICs configured on your machine, **NosDB NIC Configuration** screen appears. (Otherwise you are directly prompted for installation without this step). Select the **IP address** that you want to use for processing requests among clients and other NosDB servers.
- Click **Next**.
• You will then be prompted to start installation process by clicking the **install** button.

• Installation process will begin.
NosDB installation rollbacks if REST API module is selected but the machine has IIS 6 or above installed and IIS 6 configuration compatibility is not enabled.
To resolve this error:
1. Go to Control Panel -> Programs -> Programs and Features -> Turn Windows Features on or off.
2. Expand Internet Information Services -> Web Management Tools -> IIS 6 Management Compatibility.
3. Check the IIS Metabase and IIS 6 configuration compatibility checkbox and click OK.
4. Reinstall NosDB.
After successful installation, the following success screen appears.

Click **Finish** to exit the installation setup.

The **Getting Started with NosDB** page opens up locally in your browser, which guides on getting started with NosDB in your applications.
4. Scripted Installation

NosDB provides a command line installation that you can either run from Command Prompt or add to your script files (.bat files). To install NosDB from Command Prompt, use the `msiexec.exe` utility.

4.1. Install NosDB

- Open Command Prompt with administrative privileges.

4.1.1. NosDB Enterprise Edition

- Enter the following command after altering it according to your requirements:

```
msiexec.exe /I "<Installation Package Path>" EDITION=0|1 KEY="INSTALL_KEY_EMAILED_TO_YOU" USERFIRSTNAME="FIRSTNAME" USERLASTNAME="LASTNAME" COMPANYNAME="COMPANYNAME" EMAILADDRESS="EMAILADDRESS" INSTALLDIR="<Target Dir>" DATADIR="<Target Dir>" IPADDRESS="NODE_IP" /qn
```

<table>
<thead>
<tr>
<th>Switch/Properties</th>
<th>Purpose</th>
<th>Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>/I &quot;&lt;.msi Package Path&gt;&quot; (Required)</td>
<td>Location where the NosDB.enterprise.x64.msi file has been downloaded from the Alachisoft website.</td>
<td>Empty</td>
</tr>
<tr>
<td>EDITION (Required)</td>
<td>Specifies the installation type. Possible values are:</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0 (indicates NosDB Server)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 (indicates Remote Client)</td>
<td></td>
</tr>
<tr>
<td>KEY (Required)</td>
<td>Installation Key: You will have received this via email from Alachisoft when you downloaded NosDB. If not, then visit Alachisoft website to register and obtain one.</td>
<td>Empty</td>
</tr>
<tr>
<td>USERFIRSTNAME</td>
<td>User’s first name</td>
<td>Empty</td>
</tr>
<tr>
<td>USERLASTNAME</td>
<td>User’s last name</td>
<td>Empty</td>
</tr>
<tr>
<td>COMPANYNAME</td>
<td>User’s company name</td>
<td>Empty</td>
</tr>
<tr>
<td>EMAILADDRESS (Required)</td>
<td>User’s email address</td>
<td>Empty</td>
</tr>
<tr>
<td>INSTALLDIR</td>
<td>The location where NosDB will be installed.</td>
<td>C:\Program Files\NosDB</td>
</tr>
<tr>
<td>PASSWORD (Required)</td>
<td>Password for the admin account (admin). Only needed if NosDB security is enabled.</td>
<td>Empty</td>
</tr>
<tr>
<td>DATADIR</td>
<td>The location where the data files, configuration files, journals will be stored. Most commonly, this should be C:\Program Files\NosDB\database.</td>
<td>C:\Program Files\NosDB\data base</td>
</tr>
<tr>
<td>IPADDRESS</td>
<td>IP address of the node to host server.</td>
<td>Local IP</td>
</tr>
<tr>
<td>/qn</td>
<td>Quiet mode: Installs NosDB without any user intervention.</td>
<td>Empty</td>
</tr>
</tbody>
</table>
4.1.2. NosDB Professional Edition

Compulsory properties include EDITION and KEY.

Example:

```
msiexec.exe /I "D:\NosDBSetup\NosDB_x.x_Professional_DotNet_x64.msi" EDITION=0
KEY="NDAXSQYE3QGCHGIZT" USERFIRSTNAME="John" USERLASTNAME="Smith" COMPANYNAME="Alachisoft"
EMAILADDRESS="john@alachisoft.com" INSTALLDIR="C:\Program Files\NosDB" DATADIR="C:\Program Files\NosDB\database" IPADDRESS="20.200.20.44" /qn
```

4.1.3. NosDB Open Source Edition

Open Source Edition only offers NosDB Authentication. Compulsory properties include KEY and PASSWORD.

Example:

```
msiexec.exe /I "D:\NosDBSetup\NosDB_x.x_OpenSource_DotNet_x64.msi" KEY="OPAXSQYT6QGCHGIKL"
PASSWORD="123456789" USERFIRSTNAME="John" USERLASTNAME="Smith" COMPANYNAME="Alachisoft"
EMAILADDRESS="john@alachisoft.com" IPADDRESS="20.200.20.44" /qn
```

4.2. Uninstall NosDB

NosDB can be uninstalled either through the Command Prompt or via Control Panel.

In some cases, even though Control Panel uninstallation will completely uninstall NosDB, NosDB services might not be removed. Hence, it is preferable that NosDB is uninstalled by running the Command Prompt with administrative privileges.

4.2.1. Command Prompt Uninstallation

1. Right-click on Command Prompt and select Run as Administrator.
2. Enter the following command for quiet mode uninstallation:

```msiexec.exe /x <Installation Package Path> /qn```

Example:

```msiexec.exe /x "D:\NosDBSetup\NosDB_x.x_Enterprise_DotNet_x64.msi" /qn```

### 4.2.2. Control Panel Uninstallation

1. Go to **Control Panel -> Programs and Features**.
2. Right-click on NosDB and select **Uninstall**.
5. Evaluation Period Expiration and Extension

By default, when you install NosDB, it is installed as an “Evaluation Copy” and is valid for 60 days. At the end of these 60 days, NosDB will stop working.

5.1. Indications of NosDB Being Expired

You will be able to notice that NosDB evaluation period has expired from the following indications:

1. NosDB API will no longer work. You will not be able to add items to the database or fetch them.
2. NosDB Management Studio’s Splash screen will show “NosDB evaluation period expired”.
3. NosDB Management Studio Window title will show “Expired”.
4. NosDB Management Studio HELP->ABOUT dialog will show NosDB as being expired.
5. You will not be able to add an expired shard to a database cluster from NosDB Management Studio.
6. You will not be able to start the node on an expired shard.

5.2. Extending Evaluation Period

If any of the above happens, then it is time for you to either purchase NosDB licenses or if you need an extension to your evaluation period, you can get an Extension Key from Alachisoft Sales. Please send an email to sales@alachisoft.com (or to your account manager if you are already in touch with him/her) and ask for an extension key. You will be provided a 30-day extension key.

Once you have obtained the extension key, please follow the steps given below to extend your evaluation period:

1. Run NSActivate Wizard from ”%INSTALL_DIR%/bin/activate” path with administrative privileges.
2. Select Extend evaluation period option and click Next.
3. A new dialog box will appear. Enter the extension key provided to you by Alachisoft Sales and click **Finish**. If this key is valid, you will be prompted with a Success message. Else, you will be prompted accordingly.
The 30-day extension is valid from the original installation date and not from the day you are trying to extend it. So if you waited for 15 extra days after the initial 60-day evaluation period to extend it, you will only get an extension for 15 extra days instead of 30.
6. Activate NosDB Purchased License

If you have purchased NosDB licenses, you can activate them by following the steps given below:

1. Run the **NSActivateWizard** Tool from "%INSTALL_DIR%/bin/activate" path with administrative privileges.
2. **NosDB License Manager** will open.
3. Check **Activate Purchased License Key** and click **Next**.

4. The following Licensing screen appears if you are using **Windows** platform:
In case you are using **Virtual Machine**, the same screen will be displayed, but with the message "*Operating System is installed on an emulated hardware profile like VMWare, Hyper-V etc.*"

If **Enterprise** Edition of NosDB is installed, "**Production License**" option will be displayed.

5. Click **Next**.
In this dialog box, there are two different options to choose from: **Online Activation** and **Manual Activation**.
6.1. **Online Activation**

Online activation is the fastest way to activate your license, but requires that the machine has Internet access.

1. Enter the required information in this form. **License Key**, **First Name**, **Last Name** and **Email** are compulsory fields.
2. Enter your purchased license key to proceed.
3. Click **Next**.
4. You will see the final screen for activating your license. Click **Activate Now**.
5. The NosDB license will be activated.
If the license is not activated, it will display an error message. License activation can fail for a number of reasons:

- Your firewall does not allow HTTP POST from Activation Program to the Alachisoft License Server.
- You do not have Internet access.
- Your license key is invalid.
- You have already used up the purchased CPUs or nodes. If this happens, then please review your NosDB license usage and then contact Alachisoft Sales.
6.2. **Manual Activation**

However, if your computer does not have Internet access (which is the case in many production servers behind the firewall), then you should opt for manual activation.

1. Select **Manual** and click **Next**.

2. The following screen will appear.
3. This dialog box shows two options:
   I. If you already have the activation code, then check **Step 2 - Proceed with activation**.
   II. If you do not have the activation code, check **Step 1 - Generate activation code info**.
4. Click **Next**.
5. The following dialog box will appear.
6. Please enter the required information in this form. **License Key**, **First Name**, **Last Name** and **Email** are compulsory fields. Enter your purchased license key to proceed.

7. Click **Next**.

8. A screen showing a long encrypted text appears.
9. Press **Copy** to copy this text to the clipboard.

10. You can obtain the Activation Key through either of the two ways:

6.2.1. Email Alachisoft Support

- Send the copied content in an email to Alachisoft Support. This is an **Activation Request Code** that you need to obtain an **Activation Authentication Key**.

    RDAGJmfwlfmm1dXWgmNyF1ciUpLX4sLxV6CiIs0YfAZQEZpwFjIww+CBoyOTNybPgAVHDR5JQgMJwo3PlBABS45MIIMmQIsWPSIMGyon5/nP77jA3Ozzo87Y+t7U5OIAz/2q2Nes69lp7Mva7PTk5tS5ozI617Ndraw5Ka1sL6NnU6FXz2ezp+
    +bh9pnyv4eIgL1LmgGj4yQosYoesqSTkcCnj2zjJCj6+
    +KkTKoLOX35a6tjby7TvYwvceii8ebnKbuU86JyJWNz2JUaGF
    DzZi1eaWg1Q2hRSQpUFUHifyQ11nu=
6.2.2. Direct Activation

- Open the link NosDB Email Activation.
- Paste the Activate Request Code into the text box on this page and click Verify.

 Activation Data Verification form will appear.
Click **Activate!**

**Activation Result** page returns a generated authentication key.

```
ACTIVATION RESULT

Generated Authentication Key:
dV089Gch56dcRdycmkD96If=+dX2qw0rQaEwEEDNhpoXFWuLyY83jC2bm51z11Qu1RXUSvYwakKiBF1H1F1E2Q6cEXTpC0ktbIP2DwrfC
CrPisb2zqvy7u+5sXU0bo

Thank you for registering your copy of NosDB.

Back to Admin Console
```
11. Copy the authentication key (obtained either from Alachisoft support or directly) to your clipboard.
12. Go back to **NSActivate Wizard** and select **Manual** activation option.
13. Click **Next**.

![Image of NSActivate Wizard]

14. Check **Step2 - Proceed with activation**.
15. Click **Next**.
16. Paste the **Activation Key** that you received from Alachisoft and paste in the box below.

17. Click **Finish**. NosDB has been activated on your machine successfully.
7. Deactivate NosDB Purchased License

NosDB license can be deactivated by following the steps given below:

1. Run the **NSActivateWizard** Tool from "%INSTALL_DIR%/bin/activate" path with administrative privileges.

2. **NosDB License Manager** will open.

3. Check **Deactivate NosDB License**.

4. Click **Next**.

   ![NosDB License Manager](image)

   - **Activate your copy of**
     - Activate Purchased License key.
     - Product already activated.
     - Extend evaluation period.
     - Evaluation period has not been extended so far.
     - Reactivate NosDB License.
     - NosDB license will be reactivated on this machine.
     - **Deactivate NosDB License.**
     - You need a deactivation code in order to deactivate NosDB License.

5. In the next dialog box, enter the deactivation code provided to you by Alachisoft and click **Next**.
6. The next dialog box shows two options for deactivation – **Online** and **Manual**.
7.1. **Online Deactivation**

Online deactivation is the fastest way to deactivate but requires that your machine has Internet access.

1. Click **Deactivate Now**.

2. Your license will be deactivated and you will be prompted with a success message as follows:
3. Click **Finish** to exit NosDB License Manager.
7.2. Manual Deactivation

However, if your computer does not have Internet access (which is the case in many production servers behind the firewall), then you should opt for manual deactivation.

1. Select Manual and click Next.

2. NosDB asks for confirmation. Click Yes to continue.

3. A screen showing a long encrypted text appears.

4. This is the Deactivate Request Code. Press Copy to copy this text to the clipboard.
5. Open the link for **NosDB Manual Deactivation**.

6. Paste the **Deactivate Request Code** into the text box on this page and click **Verify**.

7. **Deactivation Data Verification** form will appear.
8. Click **Deactivate!**

9. **Deactivation Confirmation** page confirms successful deactivation.

![Deactivation Data Verification](image)

**DEACTIVATION RESULT**

Your copy of NosDB has been successfully deactivated.

[Back to Admin Console](#)

10. NosDB has been deactivated.

---

Copyright © 2005-2017 Alachisoft
8. Command Line Activation

NosDB can also be activated via command line. This will help the users to automate the process of NosDB Activation. The tool NSActivate.exe is a console application and can be found at %INSTALL_DIR%/bin/activate/.

You can customize the activation process through the following properties:

<table>
<thead>
<tr>
<th>Switch/Properties</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>/k(Required)</td>
<td>--licensekey</td>
</tr>
<tr>
<td>/f(Required)</td>
<td>--firstname</td>
</tr>
<tr>
<td>/l(Required)</td>
<td>--lastname</td>
</tr>
<tr>
<td>/e(Required)</td>
<td>--email</td>
</tr>
<tr>
<td>/comp</td>
<td>--company</td>
</tr>
<tr>
<td>/a</td>
<td>--address</td>
</tr>
<tr>
<td>/city</td>
<td>--city</td>
</tr>
<tr>
<td>/s</td>
<td>-state</td>
</tr>
<tr>
<td>/c[ountry]</td>
<td>--country</td>
</tr>
<tr>
<td>/z</td>
<td>--zip</td>
</tr>
<tr>
<td>/p</td>
<td>--phone</td>
</tr>
<tr>
<td>/m</td>
<td>--manual</td>
</tr>
<tr>
<td>/nologo</td>
<td>--nologo</td>
</tr>
<tr>
<td>/?</td>
<td>--help</td>
</tr>
</tbody>
</table>

Examples

- The following command activates NosDB on a machine.

  nsactivate /k R4179Gba-b1f296-78F6U590 /f John /l Smith /e john@alachisoft.com

- The following command displays command syntax and options for the utility. Logo banner is displayed as a part.

  nsactivate /?

- The following command displays command syntax and options for the utility suppressing the display of logo banner.
9. Licensing Model

The licensing model of NosDB is built on core based licensing for Windows platform and Virtual Machines.

The model is as follows for a single physical machine:

<table>
<thead>
<tr>
<th>Number of cores detected</th>
<th>Number of licenses required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>1</td>
</tr>
<tr>
<td>5-8</td>
<td>2</td>
</tr>
<tr>
<td>9-12</td>
<td>3</td>
</tr>
<tr>
<td>13 onwards</td>
<td>4</td>
</tr>
</tbody>
</table>

In case you are using a Virtual Machine:

<table>
<thead>
<tr>
<th>Number of cores detected</th>
<th>Number of licenses required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>2</td>
</tr>
<tr>
<td>9-12</td>
<td>3</td>
</tr>
<tr>
<td>13 onwards</td>
<td>4</td>
</tr>
</tbody>
</table>

Note that you can purchase a maximum of 4 licenses for a single machine.

However, in case you increase the number of your cores to a number where the requirement for an additional license becomes valid, you get a friendly warning (can be viewed through Event Viewer tool in Windows) that you need to purchase a new license as your core count has exceeded its range limit.

Let’s suppose you were using NosDB with 8 cores and increase the core number to 9. NosDB will not stop working or interrupt your application, but it will be detected that a new license is required.

For this, you can request to reactivate your NosDB License through the GUI **NSActivateWizard** tool or Command Line Tool **NSActivate.exe**.
Selecting this option will lead you through the same process as activating the NosDB Purchase License.