ConBee 🕖

Installation

The deCONZ application is a tool to configure, control and monitor Zigbee networks with the ConBee II.

The following sections describe the installation steps of deCONZ for various platforms.









Supported platforms

Raspberry Pi OS	Ubuntu	Docker	macOS
Windows 11	Windows 10	Windows 7	

Connection

To ensure a strong radio signal, the ConBee II should preferably be connected to a USB 2.0 socket with an USB extension cable.



- Prevents interference with housing and peripherals
- Provides maximum signal range and reliability

Note

Connection problems may occur if the ConBee II is attached directly to the USB port or is located near USB 3.0 devices such as external hard drives or memory sticks.

Raspberry Pi OS

Supported Raspberry Pi models and distributions

- Raspberry Pi (all models, except Pico)
- Raspberry Pi OS

Note

The following steps describe the manual installation of deCONZ. Alternatively a preinstalled SD-card image can be used.

Installation

1. Set user USB access rights

```
sudo gpasswd -a $USER dialout
```

Note: Changes to access rights only become active after logging out and in or after a restart.

2. Import Phoscon public key

Note: The "apt-key deprecation" warning is uncritical and can be ignored.

3. Configure the APT repository for deCONZ

Stable

```
sudo sh -c "echo 'deb http://phoscon.de/apt/deconz \
    $(lsb_release -cs) main' > \
    /etc/apt/sources.list.d/deconz.list"
```

Beta (alternative)

```
sudo sh -c "echo 'deb http://phoscon.de/apt/deconz \
    $(lsb_release -cs)-beta main' > \
    /etc/apt/sources.list.d/deconz.list"
```

4. Update APT package list

sudo apt update

5. Install deCONZ

After the installation deCONZ can be started via the application menu.

Menu > Programming > deCONZ

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	Leave Join In	Network 🔛 CRE	LQI	1 Nodes	Phoscon App	WebAp
de Info	Ø	×				
pe Coordinator						
ime						
st Seen 22:36:57						
Common Info	A	9				
NWK	0x0000					
IEEE Nodo Doscriptor	0x00212emr0					
Frequency Band	2400 - 2483 5					
User Descriptor	true					
Complex Descriptor	false					
Manufacturer Code	0x1014					
Max Buffer Size	89					
Max Incoming Transfer Size	61					
Max Outgoing Transfer Size	61		_			
MAC Capabilities			0x0000			
Alternate PAN Coordinator	true		00212effff	03d49b		
Device Type	FFD		0021201111			
Power Source	Mains					
Receiver On When Idle	true					
Security Support	false					
Server Mask	6.1					
Primary Trust Center	false					
Backup Trust Center	false					
Primary Binding Table Cache	false					
Brimony Discovery Coshe	false					
Packup Discovery Cache	false	-				
Network Manager	true					
Descriptor Capabilities						
Extended Active Endpoint List	false					
Extended Simple Descriptor Lis	t false 💌					
ade Info Cluster Info		-				
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Now the first Zigbee devices can be paired via the Phoscon App. Further information can be found in the Phoscon App documentation.

Troubleshooting

If problems occur during the installation, the Support section answers frequently asked questions (FAQ) and provides further assistance.

Ubuntu

Supported Ubuntu versions

- Ubuntu 16.04 LTS 64-Bit PC (AMD64)
- Ubuntu 18.04 LTS 64-Bit PC (AMD64)
- Ubuntu 20.04 LTS 64-Bit PC (AMD64)

Installation

1. Set user USB access rights

```
sudo gpasswd -a $USER dialout
```

Note: Changes to access rights only become active after logging out and in or after a restart.

2. Import Phoscon public key

3. Configure the APT repository for deCONZ

Stable

```
sudo sh -c "echo 'deb [arch=amd64] http://phoscon.de/apt/deconz \
    $(lsb_release -cs) main' > \
    /etc/apt/sources.list.d/deconz.list"
```

Beta (alternative)

```
sudo sh -c "echo 'deb [arch=amd64] http://phoscon.de/apt/deconz \
    $(lsb_release -cs)-beta main' > \
    /etc/apt/sources.list.d/deconz.list"
```

4. Update APT package list

```
sudo apt update
```

5. Install deCONZ

sudo apt install deconz

After the installation deCONZ can be started via the application menu.

😣 🗖 🗊 File Edit Panels Plugin	ns Help	
-e= r all	Leave Join In Network 📖 CRE LQI 1 Nodes Phoscon Ap	webApp
Node Info		
Type Coordinator		
Name		
Last Seen 22:59:39		
Common Info	A	
NWK	0x0000	
IEEE	0x00212effff03d49b	
Node Descriptor		
Frequency Band	2400 - 2483.5 MHz	
User Descriptor	true	
Complex Descriptor	false	
Manufacturer Code	0x1014	
Max Buffer Size	89 E Ox0000	
Max Incoming Transfer Size	61 00212effff03d49b	
Max Outgoing Transfer Size	61	Ū.
MAC Capabilities		
Alternate PAN Coordinator	true	
Device Type	FFD	
Power Source	Mains	
Receiver On When Idle	true	
Security Support	false	
Server Mask		
Primary Trust Center	false	
Backup Trust Center	false	
Primary Binding Table Cache	false	
Backup Binding Table Cache	false	
Primary Discovery Cache	false 🚽	
Node Info Cluster Info		
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Now the first Zigbee devices can be paired via the Phoscon App. Further information can be found in the Phoscon App documentation.

Auto start of the deCONZ GUI (optional)

1. Open the Startup Application Preferences via the application menu

gnome-session-properties

2. Add a new entry with the following commandline:

```
deCONZ --http-port=80 --auto-connect=1
```

	Edit Startup Program 😣
Name:	deCONZ-GUI
Command:	deCONZhttp-port=80auto-connect=1 Browse
Comment:	
	Cancel Save

Troubleshooting

If problems occur during the installation, the Support section answers frequently asked questions (FAQ) and provides further assistance.

Linux Headless

The SD card images as well as the standard installation method start automatically with graphical user interface.

Switch off graphical user interface (headless)

To switch off the graphical user interface (GUI), the following commands must be entered in the console:

1. Stop the GUI service immediately.

sudo systemctl disable --now deconz-gui

2. Start the headless service now and every time the system starts.

Switch on graphical user interface (GUI)

To switch on the graphical user interface (GUI), the following commands must be entered in the console:

1. Stop the headless service immediately.

```
sudo systemctl disable --now deconz
```

2. Start the GUI service now and every time the system starts.

sudo systemctl enable --now deconz-gui

Docker

Supported host systems

- Linux x86_64/amd64
- Linux armv7 (e.g. Raspberry Pi)
- Linux arm64

To run deCONZ in a Docker container, we recommend the Docker image **deconzcommunity/deconz-docker**, which is maintained by the community.

The installation steps are described on https://github.com/deconz-community/deconz-docker.

macOS installation

1. Download deCONZ.

https://deconz.dresden-elektronik.de/macos

2. Unzip and start deCONZ.

Unzip the file "deCONZ_macOS.zip" in "Downloads" and start the application "deCONZ.app".

Windows 11 installation

1. Download deCONZ software

https://deconz.dresden-elektronik.de/win

2. Install USB driver

The drivers are installed automatically after connecting the ConBee II. If necessary, the drivers are downloaded from the Internet.

Windows 10 installation

1. Download deCONZ software

https://deconz.dresden-elektronik.de/win

2. Install USB driver

The drivers are installed automatically after connecting the ConBee II. If necessary, the drivers are downloaded from the Internet.

Windows 7 installation

1. Download deCONZ software

https://deconz.dresden-elektronik.de/win

2. Download and extract the driver ZIP file

ConBee_II_USB_Driver_V1_00.zip

3. Manual driver installation

After plugging in the ConBee II, Windows automatically starts the search for a suitable driver.



4. Select "Skip Windows Update driver software download".



Enter the key combination <Win> + <Pause> and select "Device Manager" in the dialog that appears.



6. Right click on "ConBee II" and select "Update driver" in the context menu.



7. Select the option "Search for driver software on the computer".

	×
🚱 🧕 Treibersoftware aktualisieren - ConBee II	
Auf dem Computer nach Treibersoftware suchen	
An diesem Ort nach Treibersoftware suchen:	
D:\ConBee_II_USB_Driver_V1_00 Durchsuchen	
✓ Unterordner einbeziehen	
Aus einer Liste von Gerätetreibern auf dem Computer auswählen Diese Liste enthält installierte Treibersoftware, die mit diesem Gerät kompatibel sind und aus derselben Kategorie stammen.	
Weiter Abbre	then

8. Select the directory with the extracted drivers and follow the instructions.

💽 Windows-Sicherheit	X
Möchten Sie diese Gerätesoftware installieren?	
Name: dresden elektronik ingenieurtechnik GmbH Herausgeber: dresden elektronik ingenieurtechnik gmbh	
Software von "dresden elektronik ingenieurtechnik gmbh" immer vertrauen	nstallieren Nicht installieren
Sie sollten nur Treibersoftware von vertrauenswürdigen Herausgebern installieren. W Gerätesoftware bedenkenlos installiert werden kann?	ie kann festgestellt werden, welche

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🕞 🧕 Treibersoftware aktualisieren - ConBee II	×
Treibersoftware wird installiert	



