

Xesar








Installation Instructions | Windows Server 2016 Bare Metal

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1 Explanation of symbols

The following symbols are used to support illustration:

Symbol	Meaning
	Attention, risk of material damage in the event of non-compliance with the corresponding safety measures
	Notices and additional information
	Hints and recommendations
	Avoidance of errors and error messages
	Options
	Links
	Step in instructions

2 Installation instructions Windows Server 2016 Bare Metal

You will find information below on the preparation of the Xesar 3.0 installation on a Windows server with the Windows Server 2016 operating system.



The creation of the necessary IT and server environment is not part of these installation instructions. These must be provided by the customer and is not the responsibility of EVVA.

- » Check the system requirements for Xesar 3.0. **Before the installation, you must confirm that the system requirements for Xesar 3.0 according to the project checklist and system manual have been met.**

Follow the current project checklist from EVVA:



<https://www.evva.com/uk-en/products/electroniclockingsystem-saccesscontrolsystems/xesar/>



We strongly recommend that you only carry out the Xesar 3.0 installation in close cooperation with the customer's responsible IT administrator.

2.1 Requirements

The following requirements must be met for successful installation of Xesar 3.0 on a server running the Windows Server 2016 operating system:

- A server with Windows Server 2016 Standard operating system installed
- The server with Windows Server 2016 Standard is only used for the Xesar 3.0 locking system software
- The user (customer) has Windows Server and network administration expertise
- The user (customer) has local administration rights
- There is an existing DHCP service (Dynamic Host Configuration Protocol)
- The Server time zone is set to UTC (Coordinated Universal Time)
- A Hyper-V support must be available, as well as a virtual switch with connectivity and access to the Internet
- Internet access must be available (Docker Trusted Registry with Notary Service and Licence Service, Port 443, 4443, 8072)
- The driver for the coding station must be installed, if necessary (HID Omnikey 5422 is usually detected automatically)



Due to the resource availability associated with the Windows Server, we recommend 16 GB (min. 8 GB) for the physical server. The VM requires at least 4 GB of memory.

As a general rule, the larger the system and the more people / traffic and on-line wall reader, the more memory should be available.

2.2 Docker Installation

» Download Docker



<https://docs.docker.com/docker-for-windows/release-notes/#stable-releases-of-2018>



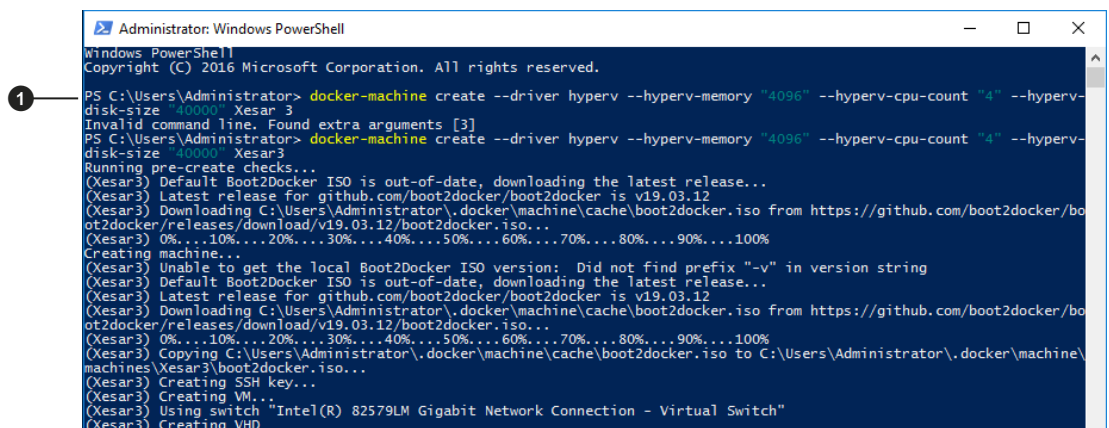
Use the latest approved version for Xesar 3.0:
currently Docker Community Edition 18.06.1-ce-win73 2018-08-29



Contact your EVVA Technical Service for information on the latest approved Docker version before every reinstallation of Xesar 3.0.

» Install "Docker for Windows" according to instructions

- » The Docker Engine does ***NOT*** have to be running.
The installation procedure relates to single-user installation; Cancel starting Windows as configuration option (deselect checkbox); service can also be stopped.
- » Open Windows PowerShell as administrator
 - » Press Windows key
 - » Enter **PowerShell**
 - » Enter command ❶:
`docker-machine create --driver hyperv --hyperv-memory "4096" --hyperv-cpu-count "4" --hyperv-disk-size "40000" <name der docker machine>`



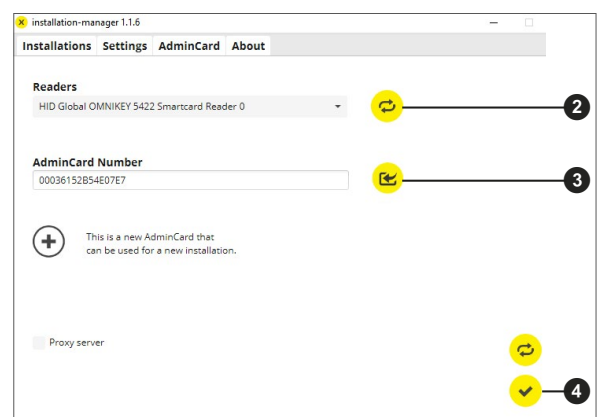
```

Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

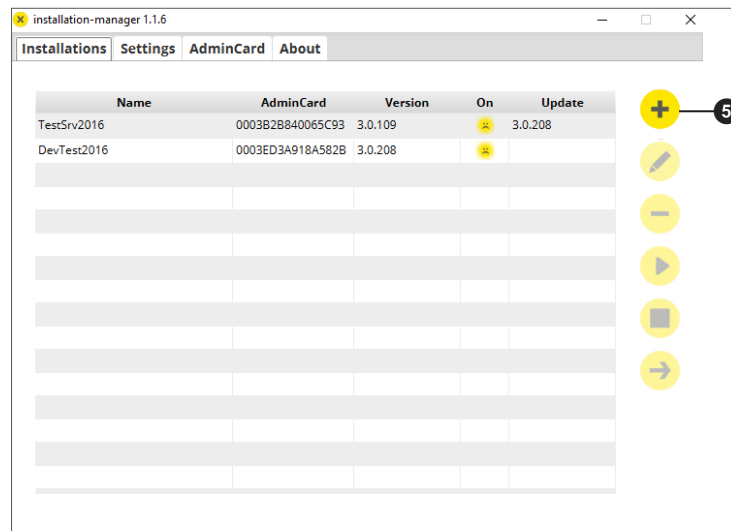
PS C:\Users\Administrator> docker-machine create --driver hyperv --hyperv-memory "4096" --hyperv-cpu-count "4" --hyperv-disk-size "40000" Xesar 3
Invalid command line. Found extra arguments [3]
PS C:\Users\Administrator> docker-machine create --driver hyperv --hyperv-memory "4096" --hyperv-cpu-count "4" --hyperv-disk-size "40000" Xesar3
Running pre-create checks...
(Xesar3) Default Boot2Docker ISO is out-of-date, downloading the latest release...
(Xesar3) Latest release for github.com/boot2docker/boot2docker is v19.03.12
(Xesar3) Downloading C:\Users\Administrator\.docker\machine\cache\boot2docker.iso from https://github.com/boot2docker/boot2docker/releases/download/v19.03.12/boot2docker.iso...
(Xesar3) 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
Creating machine...
(Xesar3) Unable to get the local Boot2Docker ISO version: Did not find prefix "-v" in version string
(Xesar3) Default Boot2Docker ISO is out-of-date, downloading the latest release...
(Xesar3) Latest release for github.com/boot2docker/boot2docker is v19.03.12
(Xesar3) Downloading C:\Users\Administrator\.docker\machine\cache\boot2docker.iso from https://github.com/boot2docker/boot2docker/releases/download/v19.03.12/boot2docker.iso...
(Xesar3) 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%
(Xesar3) Copying C:\Users\Administrator\.docker\machine\cache\boot2docker.iso to C:\Users\Administrator\.docker\machine\machines\Xesar3\boot2docker.iso...
(Xesar3) Creating SSH key...
(Xesar3) Creating VM...
(Xesar3) Using switch "Intel(R) 82579LM Gigabit Network Connection - Virtual Switch"
(Xesar3) Creating VHD
  
```

2.3 Xesar 3.0 installation

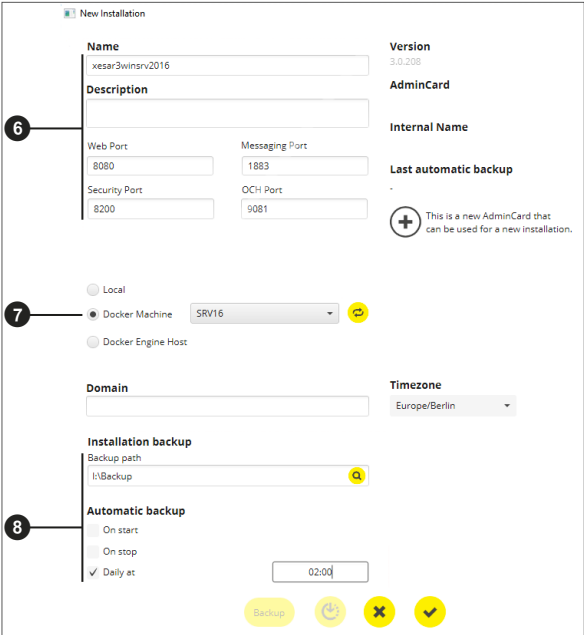
- » Download the latest Xesar 3.0 software
 - » <https://www.evva.com/uk-en/products/electroniclockingsystem-saccesscontrolsystems/xesar/xesarsoftwaredownload/>
- » Open the Installation Manager
- » Select the tab **AdminCard**
- » Load the card reader ❷
- » Load the AdminCard ❸
- » Confirm the entry ❹



- » Select the tab **Installations**
- » Using the “+” button, ⑤ add a new system



- » Fill in the data ⑥
- » Select the Docker Machine ⑦
- » Set up the automatic backup ⑧



New Installation

Name: xesar3winsrv2016

Description: [Empty field]

Version: 3.0.208

AdminCard: [Empty field]

Internal Name: [Empty field]

Last automatic backup: [Empty field]

Web Port: 8080

Messaging Port: 1883

Security Port: 8200

OCH Port: 9081

Local:

Docker Machine: SRV16

Docker Engine Host:

Domain: [Empty field]

Timezone: Europe/Berlin

Installation backup

Backup path: H:\Backup

Automatic backup

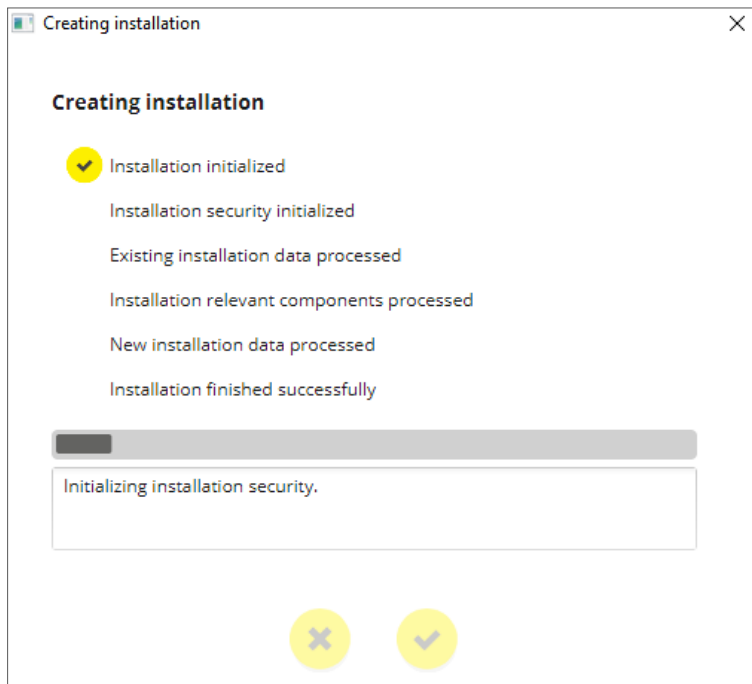
On start:

On stop:

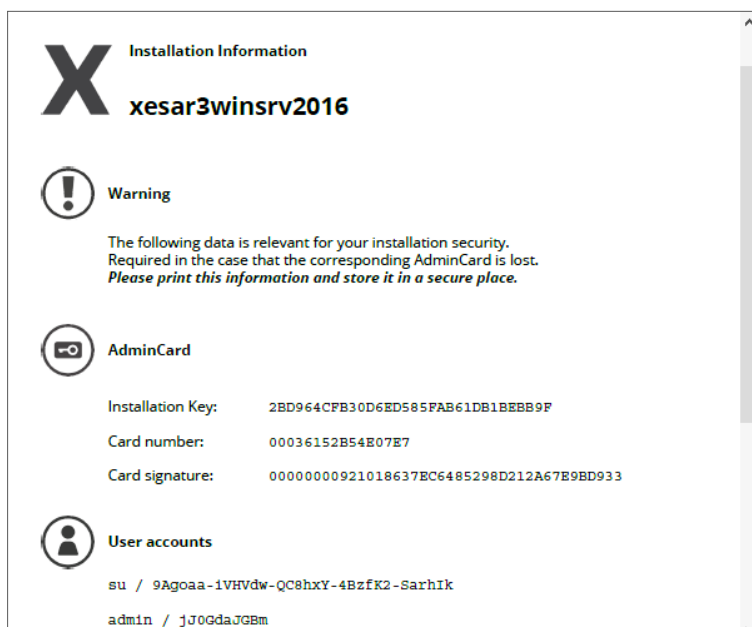
Daily at: 02:00

Buttons: Backup, Refresh, Cancel, Confirm

The system is created (important installation information is shown).



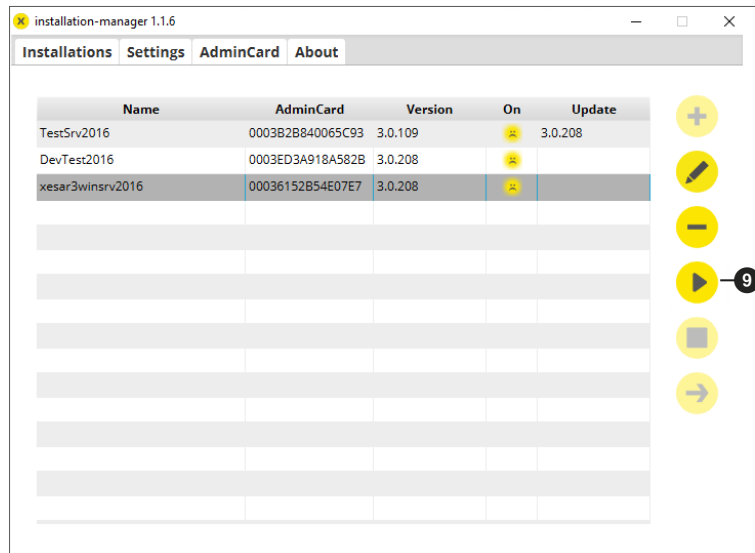
The most important system data are output in the document "Installation Information".



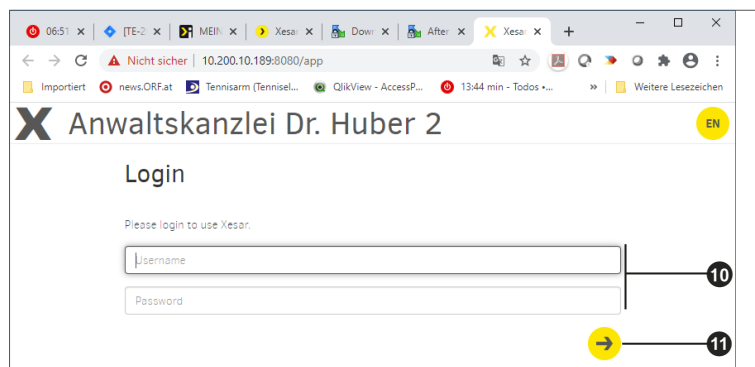
Important:

Without this data, the system can not be restored in the event of a fault. Print "Installation Information" document and keep in a safe place.

- » Select the desired system
- » Start by clicking on the arrow **9**



- » Log in with the login details you received in the "Installation Information" document (admin / password) **10**
- » Click on the arrow **11**



You are now taken to the Xesar 3.0 dashboard and can operate the installation.

www.evva.com