

# Server Installation Instructions



# Xesar 3.0

## Installation Instructions for Windows Server 2016 Bare metal

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### 1 Preface

These instructions show the preparation of the Xesar 3.0 installation on a Windows server with the operating system Windows Server 2016.

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

**Before the installation, check and confirm that the Xesar 3.0 system requirements are met, as required by the project checklist and the system manual.**

**The current project checklist can be downloaded from Xesar homepage at <https://www.evva.com/at-de/produkte/elektronische-schliesssysteme-zutrittskontrolle/xesar/>.**

We strongly recommend you to only carry out the Xesar 3 installation in close cooperation with the customer's responsible IT administrator.

# Instructions for installing Xesar 3.0 on Windows Server 2016

## 2 Prerequisites:

The following prerequisites are necessary for the successful installation of Xesar 3.0 on a server running the Windows Server 2016 operating system:

1. A server is installed with Windows Server 2016 Standard operating system.
2. The server with Windows Server 2016 Standard is **only used for the Xesar 3 locking system software!**
3. The user must have Windows Server and network management know-how.
4. The user must have local administration rights.
5. There must be an existing DHCP service.
6. The server time zone must be configured as UTC.
7. Hyper-V support must be available, as well as a virtual switch with a possibility to connect to and access the Internet
8. Access must be available to the internet (Docker Trusted Registry with Notary Service and Licence Service, Port 443, 4443, 8072).
9. It is possible that the coding station driver must be installed. HID Omnikey 5422 is usually detected automatically.

**Important:** Due to the availability of resources in conjunction with Windows Server, we recommend at least 8GB, better is still 16GB of memory for the physical server. The VM requires at least 4GB of memory. Basically, the larger the system and the greater the amount of persons / traffic / online wall reader, the more memory should be available.

### 3 Docker Installation

1. Download Docker

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

#### **Important:**

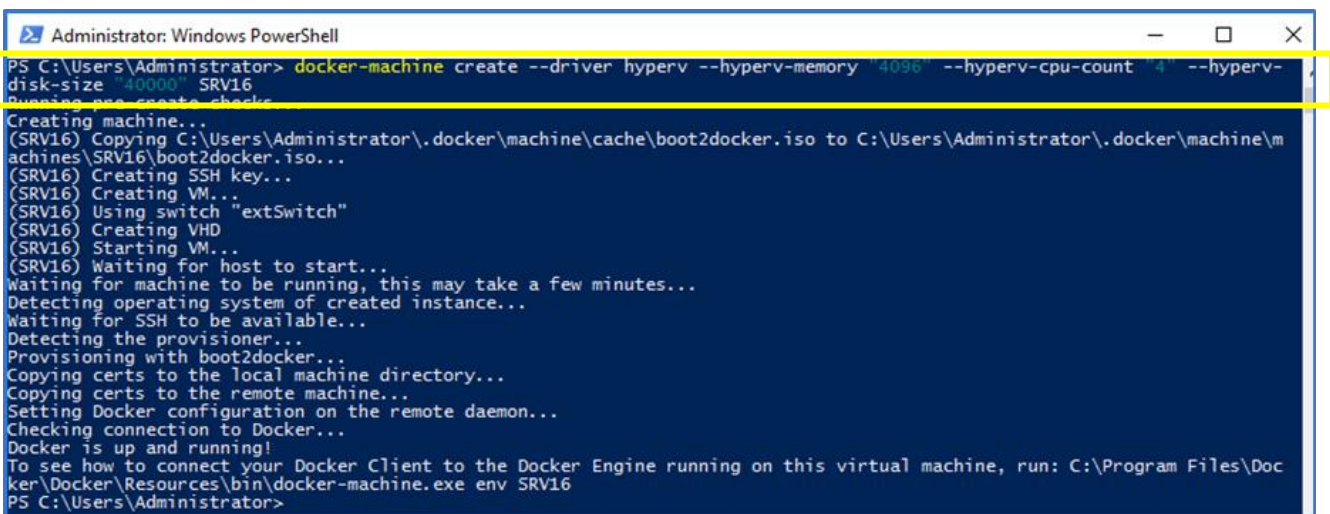
Use the current released version of Xesar 3.0:

#### ***Docker Community Edition 18.06.1-ce-win73 2018-08-29***

**Prior to a new installation of Xesar 3.0, always ask your EVVA technical office for the current Docker version.**

2. Install „Docker for Windows“ according as instructed
3. The Docker Engine does **\*NOT\*** have to run. Installation procedure just as for a single-user installation; and then cancel starting on Windows startup, using configuration option (remove checks). Service can also be stopped.
4. Open Windows PowerShell as an administrator by pressing the *Windows key* and then typing "*PowerShell*" and enter the command:

***docker-machine create --driver hyperv --hyperv-memory "4096" --hyperv-cpu-count "4" --hyperv-disk-size "40000" <name der docker machine>***



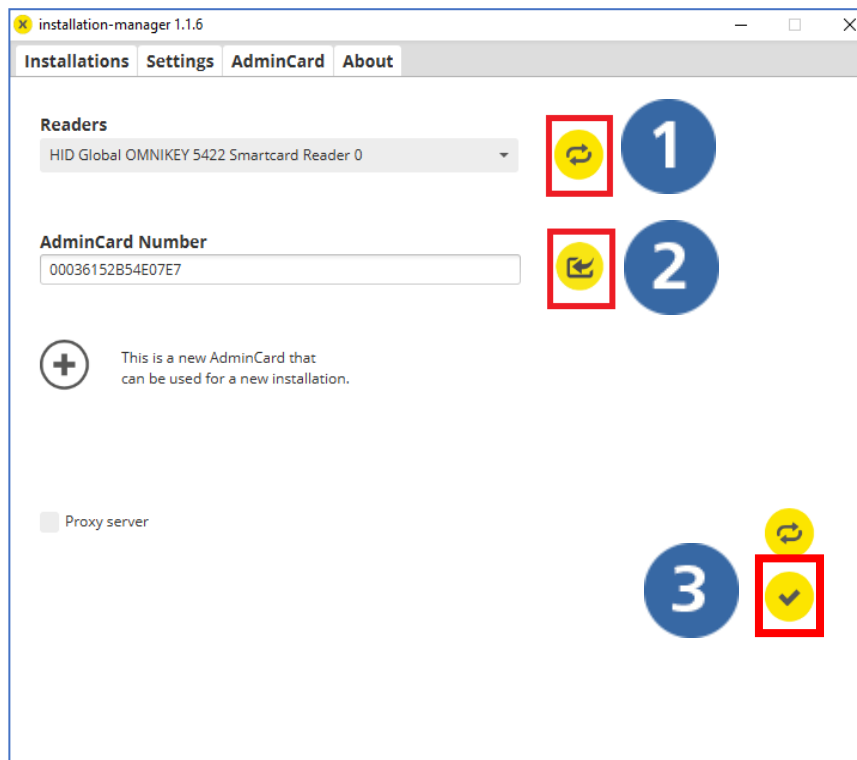
```
Administrator: Windows PowerShell
PS C:\Users\Administrator> docker-machine create --driver hyperv --hyperv-memory "4096" --hyperv-cpu-count "4" --hyperv-disk-size "40000" SRV16
Running pre-create checks...
Creating machine...
(SRV16) Copying C:\Users\Administrator\.docker\machine\cache\boot2docker.iso to C:\Users\Administrator\.docker\machine\machines\SRV16\boot2docker.iso...
(SRV16) Creating SSH key...
(SRV16) Creating VM...
(SRV16) Using switch "extSwitch"
(SRV16) Creating VHD
(SRV16) Starting VM...
(SRV16) Waiting for host to start...
waiting for machine to be running, this may take a few minutes...
Detecting operating system of created instance...
waiting for SSH to be available...
Detecting the provisioner...
Provisioning with boot2docker...
Copying certs to the local machine directory...
Copying certs to the remote machine...
Setting Docker configuration on the remote daemon...
Checking connection to Docker...
Docker is up and running!
To see how to connect your Docker Client to the Docker Engine running on this virtual machine, run: C:\Program Files\Docker\ Docker\Resources\bin\docker-machine.exe env SRV16
PS C:\Users\Administrator>
```

## 4 Xesar 3.0 Installation

1. Download the latest Xesar 3.0 software from the EVVA homepage:

<https://www.evva.com/at-de/produkte/elektronische-schliesssysteme-zutrittskontrolle/xesar/xesar-software-download/>

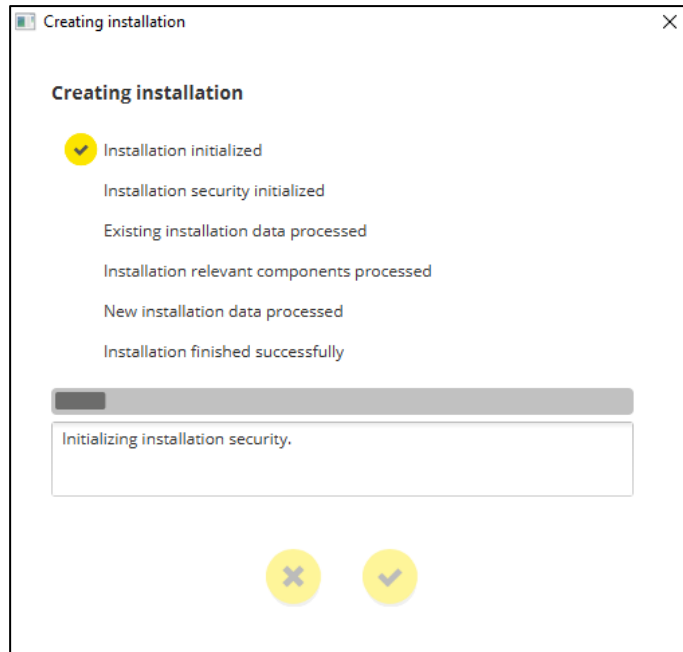
2. Open the Installation Manager. Select the AdminCard tab and load the card reader (1). Then load the AdminCard (2) and confirm the entry (3)



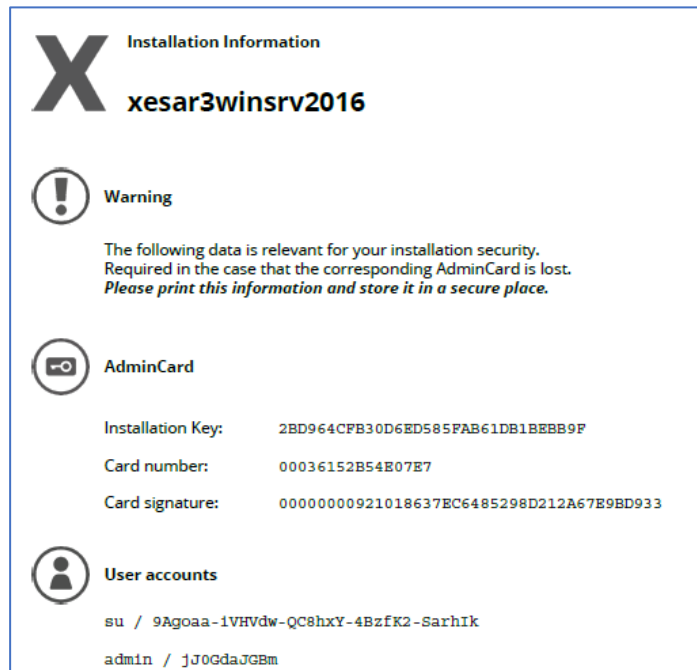
3. Select the Installation tab and add a new system with "+" (1). Fill in all the data (2), select the *docker machine* (3) and set up automatic backup (4).

The screenshot shows the 'installation-manager 1.1.6' application. The 'Installations' tab is active, displaying a table with columns: Name, AdminCard, Version, On, and Update. A red box highlights a '+' icon in the top right corner of the table, labeled with a blue circle containing the number '1'. Below the table, the 'New Installation' dialog box is open. A red box highlights the 'Name' field (containing 'xesar3winsrv2016'), 'Description' field, and port configuration fields (Web Port: 8080, Messaging Port: 1883, Security Port: 8200, OCH Port: 9081), labeled with a blue circle containing the number '2'. A blue circle containing the number '3' points to the '2.' radio button next to 'Docker Machine', which has a dropdown menu showing 'SRV16'. A blue circle containing the number '4' points to the 'Installation backup' section, which includes a 'Backup path' field (containing 'I:\Backup') and 'Automatic backup' options (On start, On stop, and Daily at 02:00). At the bottom of the dialog, there are four buttons: 'Backup', a refresh icon, a close icon, and a checkmark icon.

4. The system is being installed:



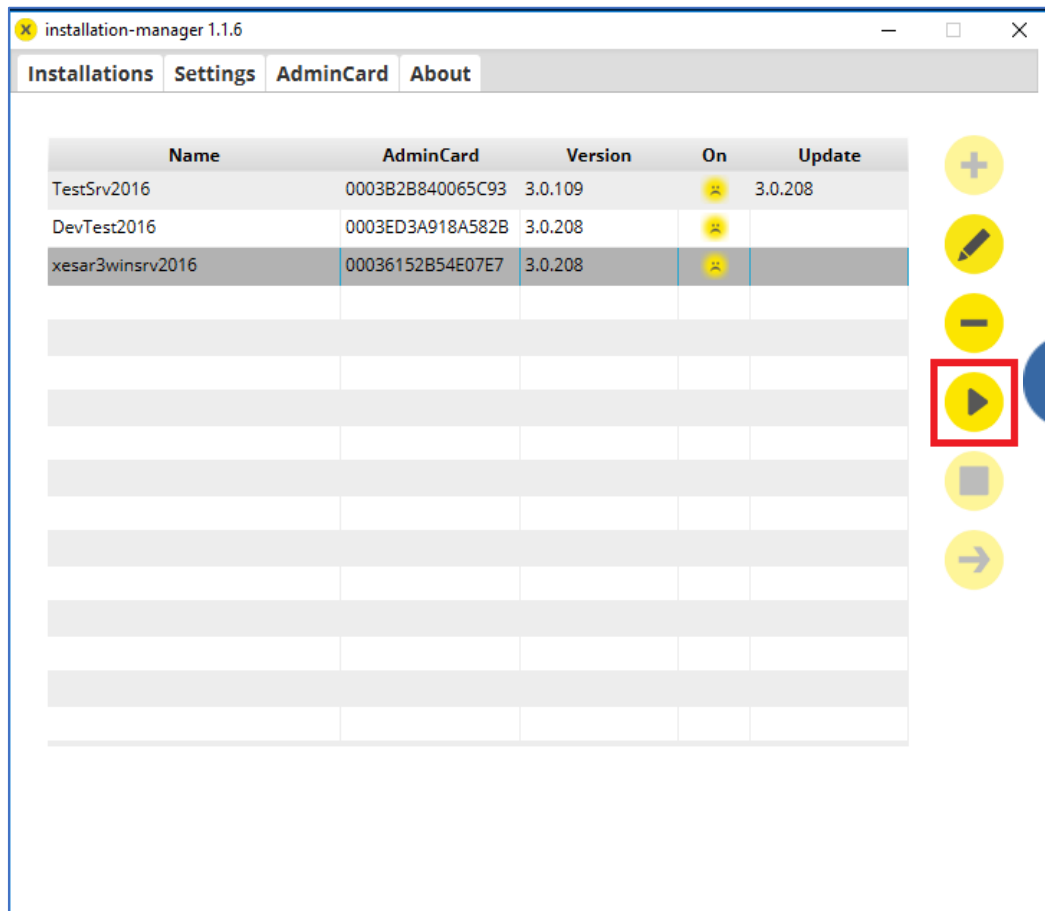
5. The most important system data are output in the document "Installation information".



**Important:**

**Without this data from the document, the system can not be restored in case of error. Print this document and keep in a safe place.**

6. Begin the installation now and open the browser with the arrow symbol (1)



7. Log in with the login data admin/password you previously received with the document *Installation Information*. Press the arrow button (2).

8. You now have the Xesar 3.0 dashboard and can operate the system.

