

Deploying MXvirtual in Azure Cloud

Getting Started Guide

Version 1.0

September 2018



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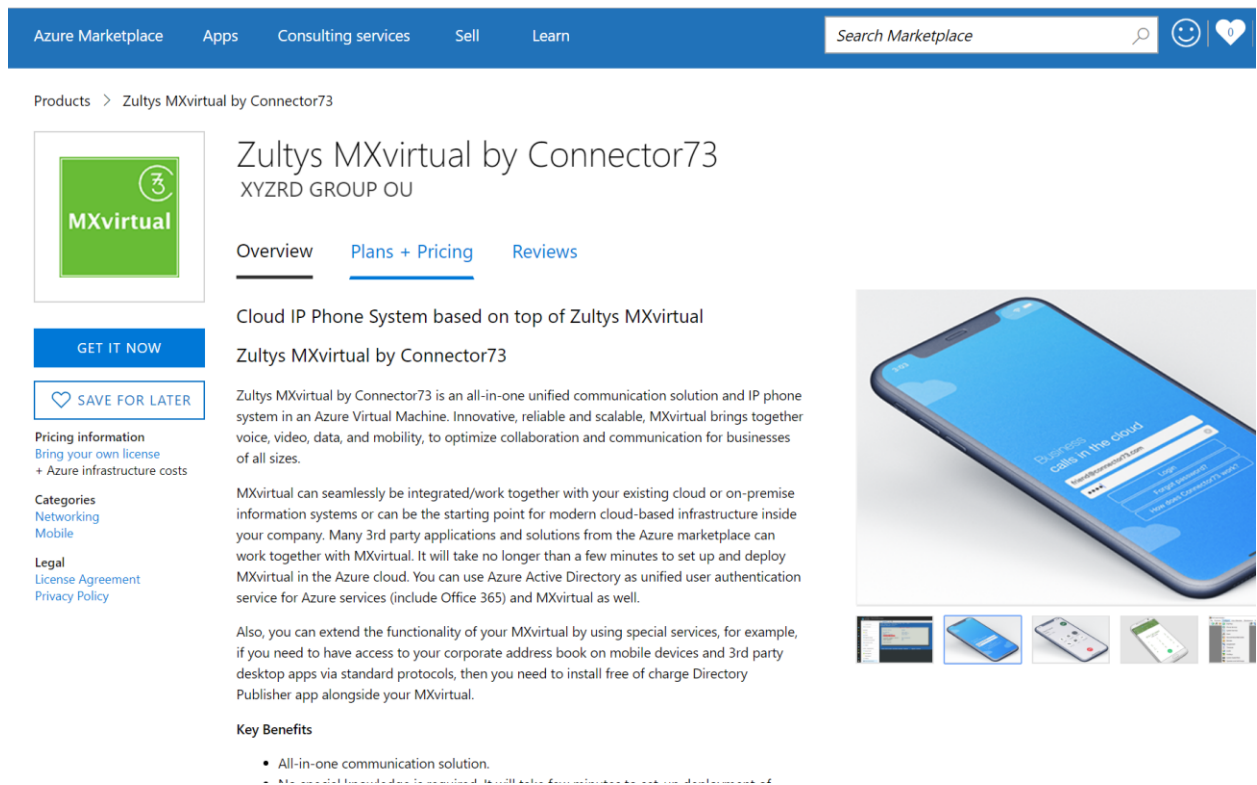
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1 Introduction

MXvirtual is an IP Phone System and Unified Communications solution “Virtual Appliance” designed to operate in the Microsoft Azure cloud server and thus requires no physical hardware. MXvirtual requires an Activation License and Software Licenses which are necessary for the day-to-day operation of an MXvirtual system. Following deployment of an MXvirtual Instance onto a Microsoft Azure, it must be Activated before the system can be licensed and configured for day-to-day use.

1.1 Setup MXvirtual in Azure


1. Go to Azure Marketplace and navigate for **Zultys Mxvirtual by Connector73**



The screenshot shows the Azure Marketplace interface. At the top is a navigation bar with links for 'Azure Marketplace', 'Apps', 'Consulting services', 'Sell', and 'Learn', along with a search bar and user icons. Below the navigation bar, the breadcrumb 'Products > Zultys MXvirtual by Connector73' is visible. The main content area features the product tile for 'Zultys MXvirtual by Connector73' by XYZRD GROUP OU. The tile includes a green icon with a '3' and the text 'MXvirtual'. Below the icon are buttons for 'GET IT NOW' and 'SAVE FOR LATER'. To the right of the icon, there are tabs for 'Overview', 'Plans + Pricing', and 'Reviews'. The 'Overview' tab is selected, showing a description: 'Cloud IP Phone System based on top of Zultys MXvirtual'. Below this, it states 'Zultys MXvirtual by Connector73 is an all-in-one unified communication solution and IP phone system in an Azure Virtual Machine. Innovative, reliable and scalable, MXvirtual brings together voice, video, data, and mobility, to optimize collaboration and communication for businesses of all sizes.' Further down, it explains that MXvirtual can be integrated with existing cloud or on-premise systems and can be the starting point for modern cloud-based infrastructure. It mentions that many 3rd party applications and solutions from the Azure marketplace can work together with MXvirtual, and it will take no longer than a few minutes to set up and deploy MXvirtual in the Azure cloud. It also notes that Azure Active Directory can be used for unified user authentication service for Azure services (including Office 365) and MXvirtual as well. Below this, it states that the functionality of MXvirtual can be extended using special services, such as access to corporate address books on mobile devices and 3rd party desktop apps via standard protocols, which requires installing a free Directory Publisher app alongside MXvirtual. A 'Key Benefits' section follows, listing 'All-in-one communication solution.' and 'Microsoft Azure cloud-based, built on Microsoft Azure infrastructure and deployment of'. To the right of the text is a large image of a smartphone displaying the MXvirtual interface, with a smaller row of images below it showing various mobile devices and desktop screens.

2. Go to **Plans + Pricing** tab and select latest version of Zultys MXvirtual by Connector73.

Products > Zultys MXvirtual by Connector73



Zultys MXvirtual by Connector73

XYZRD GROUP OU

[Overview](#) [Plans + Pricing](#) [Reviews](#)

The cost of running this product is a combination of the selected software plan charges plus the Azure infrastructure costs for the virtual machine. Your Azure infrastructure price might vary if you have enterprise agreements or other discounts.

To view pricing in a different currency, [change the billing country/region](#). Costs might vary by deployment region.

Select a software plan

| | | |
|--|------|---|
| Zultys MXvirtual by Connector73 (14.0.6) Cloud IP Phone System | BYOL | ▼ |
| Zultys MXvirtual by Connector73 Cloud IP Phone System | BYOL | |
| Zultys MXvirtual by Connector73 (14.0.6) Cloud IP Phone System | BYOL | |

Region: ▼ The publisher recommends the following 2 virtual machine instances for use with this software plan.

[GET IT NOW](#)

[SAVE FOR LATER](#)

Pricing information
[Bring your own license](#)
+ Azure infrastructure costs

Categories
[Networking](#)
[Mobile](#)

Legal
[License Agreement](#)
[Privacy Policy](#)

3. Click on **"GET IT NOW"**. Enter contact information. After, it will redirect you to Azure portal. You have to be **logged in** with your **Microsoft account**.
4. In Azure portal, click on **"Create"** below the description of "Zultys MXvirtual by Connector73" and continue with deployment process. If you **do not have subscription**, Azure Portal will navigate you to create a new account. After that you need to re-login to Azure Portal, then continue from **Create a resource; Search marketplace** "Zultys MXvirtual by Connector73".
5. **Enter** basic information. Choose Authentication type as **Password**. SSH is closed on VM by default.

6. **Choose** virtual machine **size**. Based on location and subscription different VM sizes are available. We recommend using VM size Standard B2s. **More on VM sizes** [here](#).

Home > New > Zultys MXvirtual from Connector73 > Create virtual machine > Basics

Create virtual machine

1 Basics
Configure basic settings

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Summary
Zultys MXvirtual from Connect...

* Name
mxvirtual-1 ✓

VM disk type ⓘ
Premium SSD ▼

* Username
xyzrd_admin ✓

* Authentication type
SSH public key Password

* Password
..... ✓

* Confirm password
..... ✓

Subscription
Visual Studio Professional ▼

* Resource group ⓘ
☒ Create new ☐ Use existing
mxvirtual-1-resgroup ✓

* Location
West Europe ▼

OK

7. **Configure** optional features. Configure network settings. There is preconfigured network security group (NSG) rules. If desired new rules can be added.

Settings

High availability

Availability zone ⓘ
None

* Availability set ⓘ
None

Storage

Use managed disks ⓘ
No Yes

Network

* Virtual network ⓘ
(new) mxvirtual-1-resgroup-vnet

* Subnet ⓘ
default (10.0.19.0/24)

* Public IP address ⓘ
(new) mxvirtual-1-ip

ⓘ

This VM image has preconfigured NSG rules

Network Security Group ⓘ
Basic Advanced

* Network security group (firewall) ⓘ

OK

Settings

* Public IP address ⓘ
(new) mxvirtual-1-ip

ⓘ

This VM image has preconfigured NSG rules

Network Security Group ⓘ
Basic Advanced

* Network security group (firewall) ⓘ

Auto-shutdown

Enable auto-shutdown ⓘ
Off On

Monitoring

Boot diagnostics ⓘ
Disabled Enabled

* Diagnostics storage account ⓘ
(new) mxvirtual1resgroup973

Managed service identity

Register with Azure Active Directory ⓘ
No Yes

OK

➡More on Virtual Networks [here](#). ➡More on Network Security Groups [here](#). ➡More on Public IP addresses [here](#).

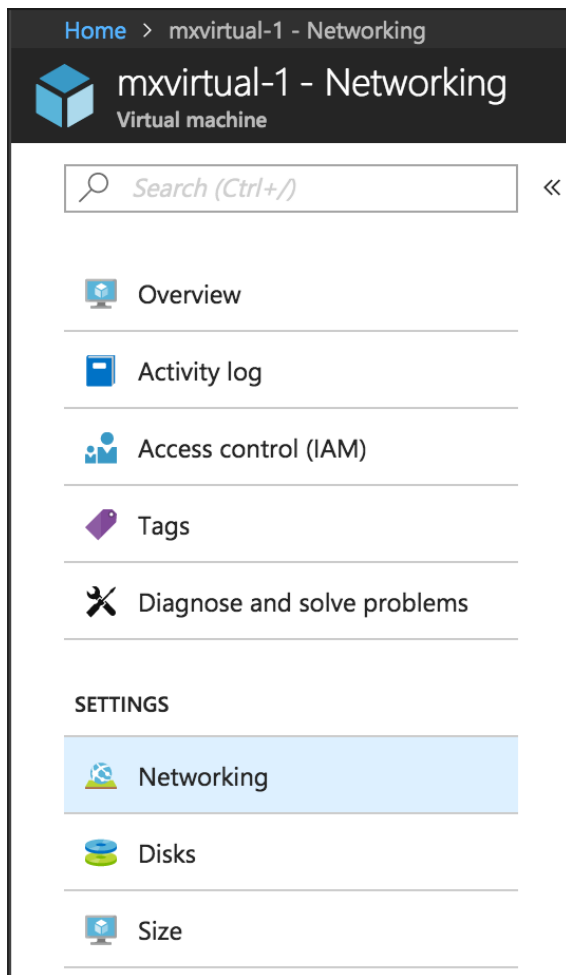
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8. After deployment is **complete** you need to add extra NSG rules.

- Inbound TCP ports 7100 – 7171
- Inbound UDP ports 20000 – 24999

9. Go to **deployed VM** -> Settings -> Networking -> **Add inbound security rule**



Add inbound security rule

mxvirtual-1-nsg

Basic

* Source ⓘ
Any

* Source port ranges ⓘ
*

* Destination ⓘ
Any

* Destination port ranges ⓘ
20000-24999 ✓

* Protocol
Any TCP **UDP**

* Action
Allow Deny

* Priority ⓘ
1130 ✓

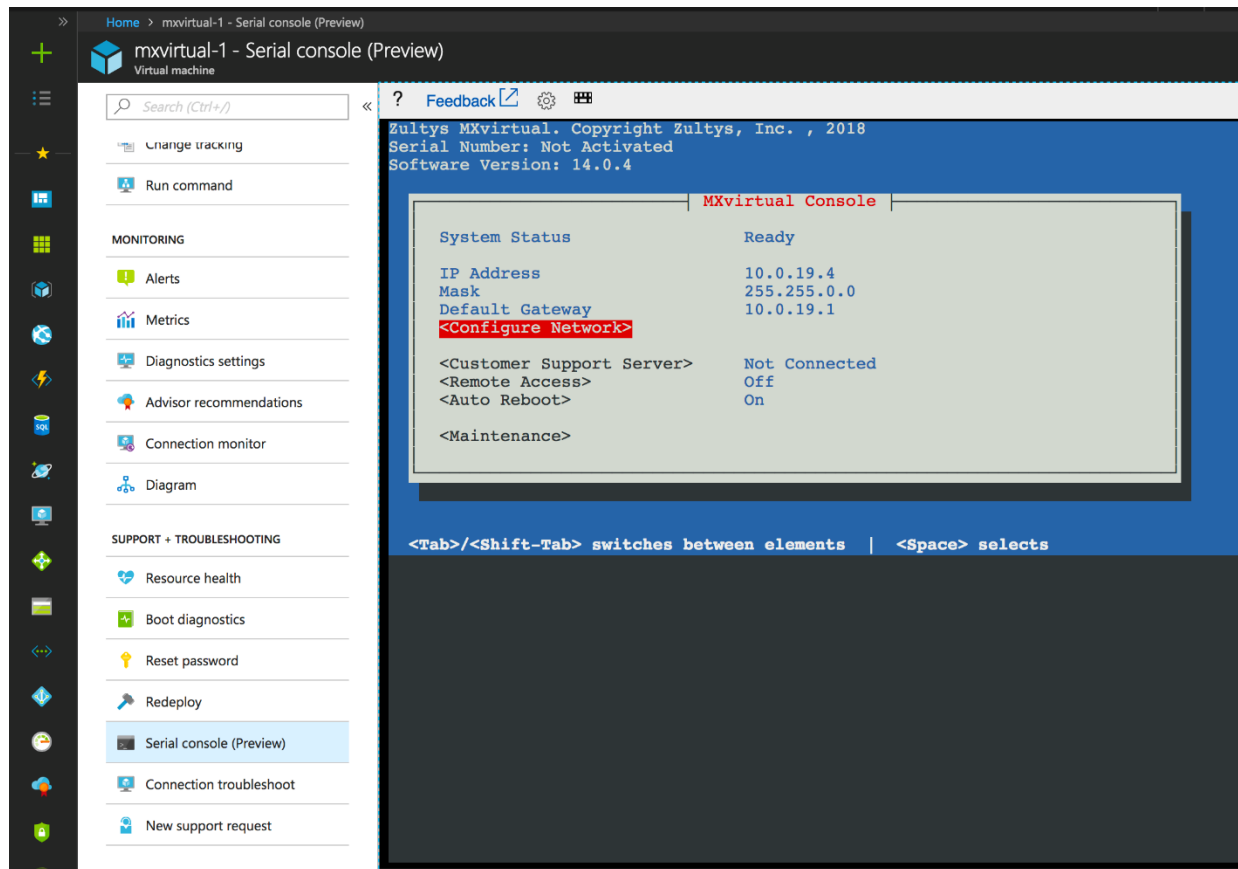
* Name
udp20000

Description

Add

Add

10. To access **serial console**, go to deployed VM -> Support + Troubleshooting -> Serial console



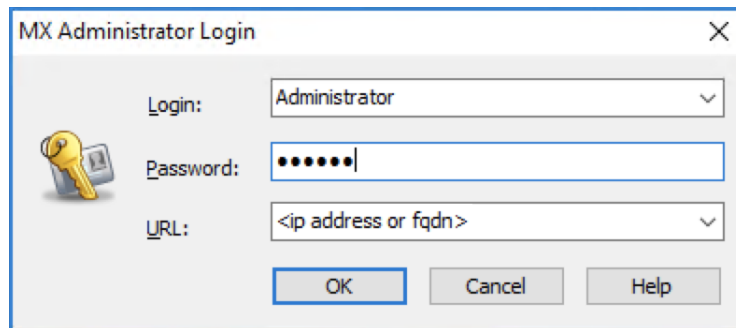
11. MXvirtual is configured from the **MX Administrator application**. To download and install the MX Administrator application for MXvirtual, open a browser, navigate to the main IP address of MXvirtual. (Public IP address of deployed VM).

12. Click on the **Administration UI link** to begin downloading the software.

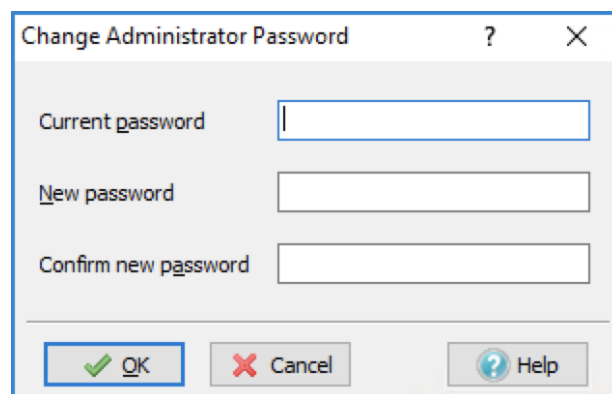


13. Once the installation is **complete**, the login window appears. Use default credentials at first login:

- **Login:** Administrator
- **Password:** zultys



14. **Change** the password immediately. In MX Administrator go to *File -> Administrator password*



2 MXirtual Activation and Software Licenses.

Following deployment of an MXvirtual Instance onto a Microsoft Azure it must be Activated before the system can be licensed and configured for day-to-day operation. During the Activation process, MX system transmits the Activation License containing a unique Serial Number to the Zultys Activation Server (ZAS) via the Internet. Once the Activation process is complete, Software Licenses generated for the matching Serial Number may be applied and MXvirtual configured for use.

Note: If MXvirtual is unable to contact the ZAS, it will be Conditionally Activated. If connectivity to the ZAS is not established within 3 days, the system will enter Activation Suspended state.

1. In **MX Administrator** navigate to *Maintenance -> Activation*.
2. Click on **Activate**. Enter Activation window appears. Copy the License Activation key you received from Zultys and paste it here. Make sure that the entire text of License Activation file has been **duplicated**.

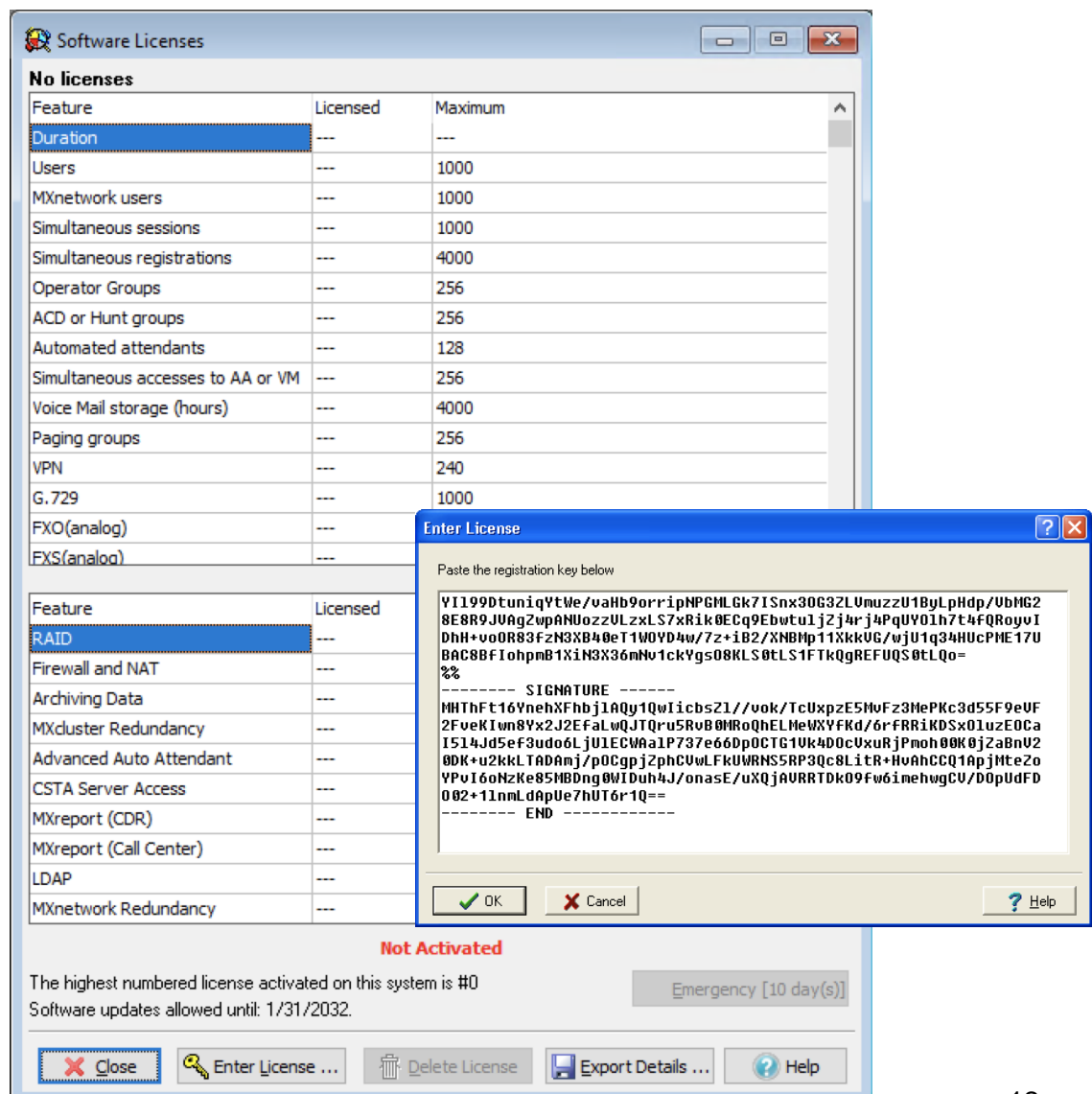


Possible Activation States

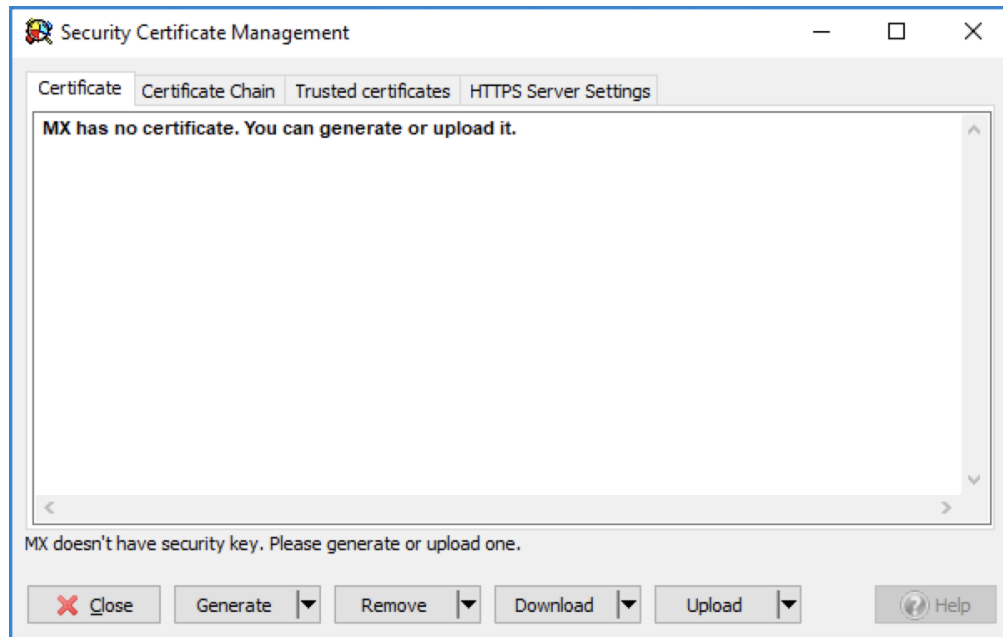
| State | Description |
|-------------------------------|---|
| Not Activated | MXvirtual has never been Activated. It has no Serial Number and thus cannot have Software Licenses applied. |
| Activated | MXvirtual has been Activated. Software Licenses for the related serial number may be applied. |
| Activated, Unconfirmed | MXvirtual is conditionally Activated, indicating that an Activation License has been applied but the system has been unable to connect to the Activation Server to confirm the validity of the License. If connection to Activation Server is not established within 3 days, the system's Activation will be suspended. |
| System Compromised | Another MXvirtual system is using the same Activation License. This MXvirtual is considered the primary License Holder; the other system using the Activation License will be suspended. |

| | |
|-----------------------------|---|
| System Replicated | Another MXvirtual system is using the same Activation License. The other MXvirtual is considered the primary License Holder. The other MXvirtual using this Activation License must be shut down; otherwise the Activation on this MXvirtual will be Revoked. |
| Activation Suspended | Activation has been suspended because MXvirtual is unable to connect to the Activation Server to confirm the validity of the Activation License. |
| Activation Revoked | The Activation License has been revoked because MXvirtual was using a duplicated Activation License. |

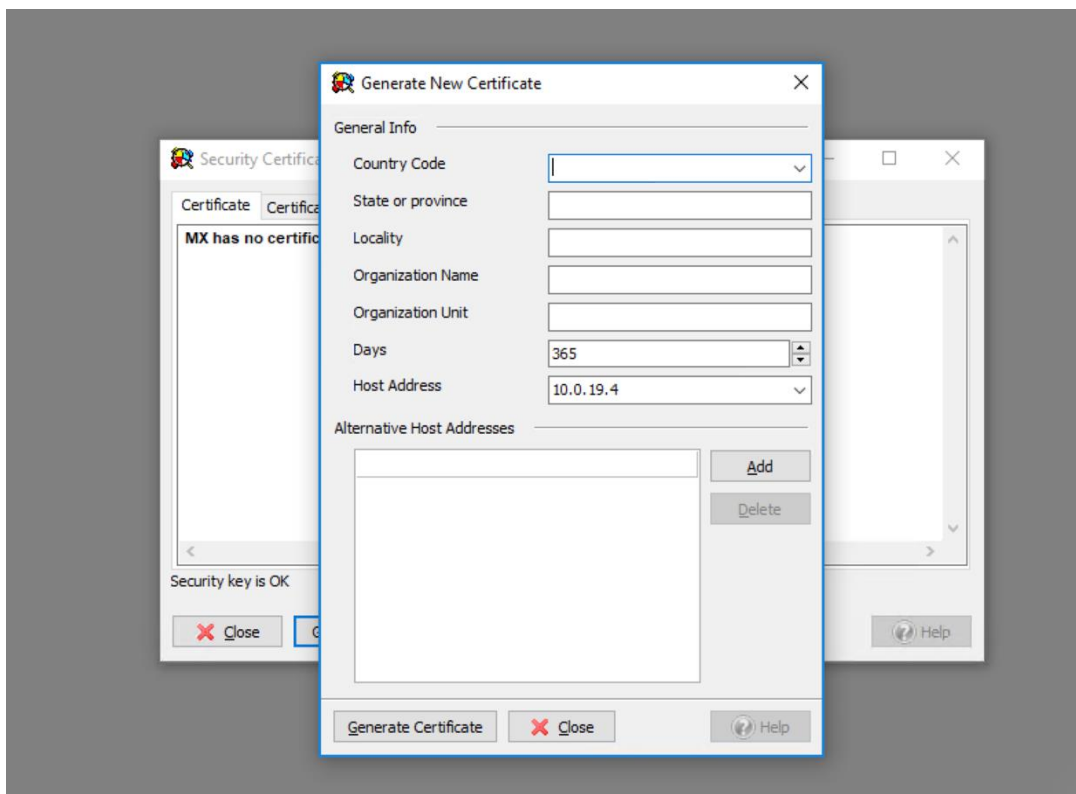
- After successful activation Software licenses can be installed. Navigate to **Maintenance -> Software Licenses**
- Click on **Enter License** button. Copy the Software License you received from Zultys and paste it here



5. SSL Certificate Installation.
6. To install SSL certificate, navigate to **Maintenance -> Security Certificate Management**.



15. You can install self-signed certificate. For this click on **Generate** and generate new Security key. Afterwards generate self-signed certificate.



7. To install certificate from trusted CA you need to manually upload files. From Maintenance -> Security Certificate Management click on **Upload** button. Then upload "Security key", "Certificate" and "Certificate Chain" files obtained from CA.

➡ More information is available in MX Administrator's manual from [Help -> Administrator's Manual](#).