

# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

## Purpose

This document describes how to use SSL/TLS with AD and LDAP in Nagios Network Analyzer 2026.

## Prerequisites

You will need the following prerequisites in order to follow the documentation:

- Nagios Network Analyzer 2026R1 or newer
- A separate Microsoft Windows-based AD infrastructure that is accessible to the Nagios Network Analyzer machine
  - OR
- A separate LDAP infrastructure (like OpenLDAP) that is accessible to the Nagios Network Analyzer machine

## Certificate Overview

A "brief" explanation of certificates is required to be able to explain which certificate needs to be uploaded to your Nagios Network Analyzer server and why.

You will be familiar with certificates when shopping online using your web browser. When you connect to a server using SSL/TLS, the server you are connecting to will provide a certificate to use for encryption and security. Your computer will verify that the certificate provided is actually valid, but how does it do this? The certificate you are presented with is generated by a trusted source, a certificate authority (CA). Your computer has a copy of the CA certificate and can validate that the certificate you are being provided with is actually a valid certificate. Your computer's operating system keeps the public list of CA certificates up to date; it's not something that you need to worry about.

Certificates are also used for user authentication on private networks, such as communicating with an AD/LDAP server. If you have a Windows computer that is joined to an AD, certificates are used by the domain controller(s) to securely transmit username and password information. In this scenario the domain controller(s) have certificates that are issued by a private CA in the Windows domain. For all of this to work, the CA certificate of the Windows domain needs to exist on your local computer. Computers that participate in a Windows domain automatically have a copy of this CA certificate.

# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

Why did all of that need explaining? When Nagios Network Analyzer connects to an LDAP/AD server to authenticate a user, the domain controller you are authenticating with provides the Nagios Network Analyzer server with a certificate to use for encryption and security. Because Nagios Network Analyzer is running on a Linux server, there is no way that it would have a copy of your Windows domain CA certificate, so it will not be able to verify the certificate of the domain controller you are authenticating against. The purpose of this documentation is to upload the CA certificate onto your Nagios Network Analyzer so that Nagios Network Analyzer can trust the certificate the domain controller provides.

It does need to be made clear that it is the CA certificate that is required. Even in simple single-server AD domains (like Windows Server Essentials), the CA certificate is a different certificate to the certificate of the server itself. This might be clearer in a larger AD domain. You might have three separate domain controllers; however, they all have certificates issued to them by the CA. To be able to authenticate against all three servers you need to upload the CA to your Nagios Network Analyzer. This documentation will walk you through the steps to obtain and upload the CA certificate.

## Obtaining The Certificate - Microsoft Windows

These steps are based on obtaining the CA certificate from your Microsoft Windows CA server. There are two methods explained here:

- [Method 1: Console / RDP Session To CA Server](#)
- [Method 2: CA Server Web Interface](#)

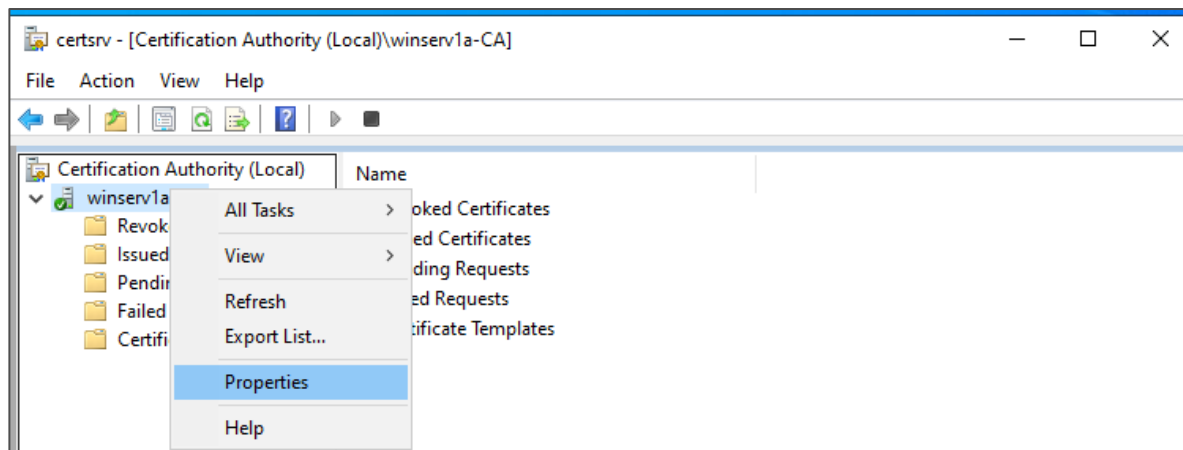
### Method 1: Console / RDP Session To CA Server

Using this method, you will need a console or RDP session to your CA server.

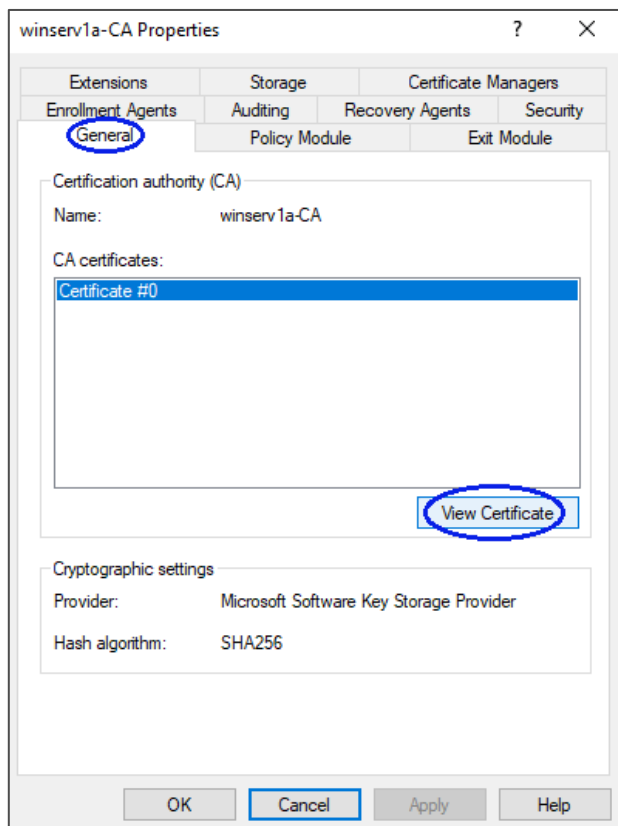
1. Navigate to **Administrative Tools** (commonly found in the Control Panel) and open **Certification Authority**.

# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

2. When the **Certification Authority** opens, right click on the CA server and select **Properties**.

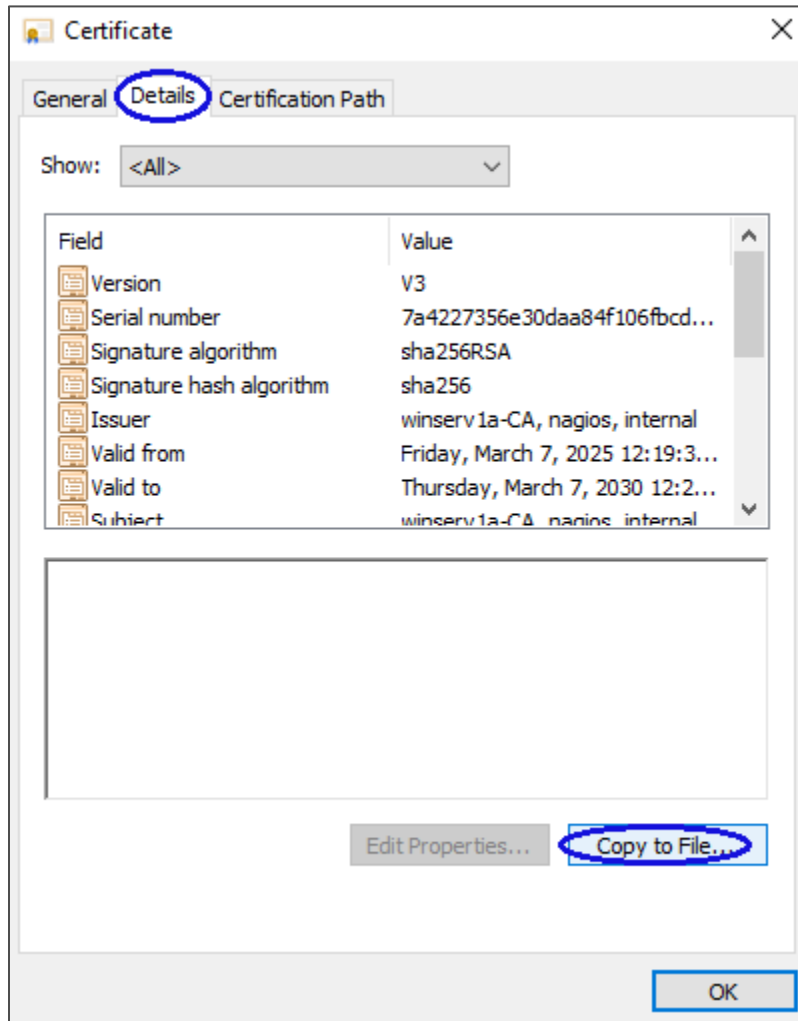


3. The **Properties** window will open to the **General** tab.
4. Click the **View Certificate** button.



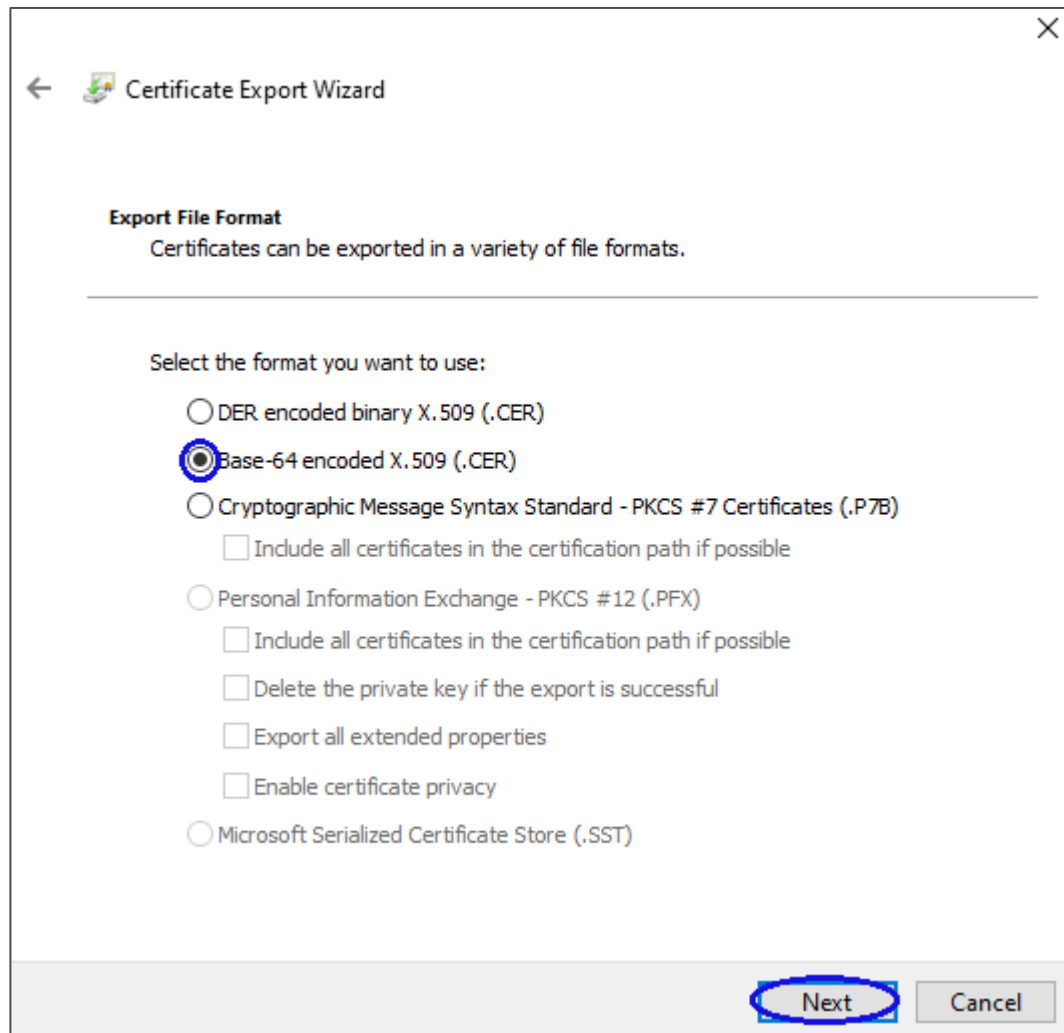
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5. When the **Certificate** window opens, click the **Details** tab.
6. Click the **Copy to File** button.



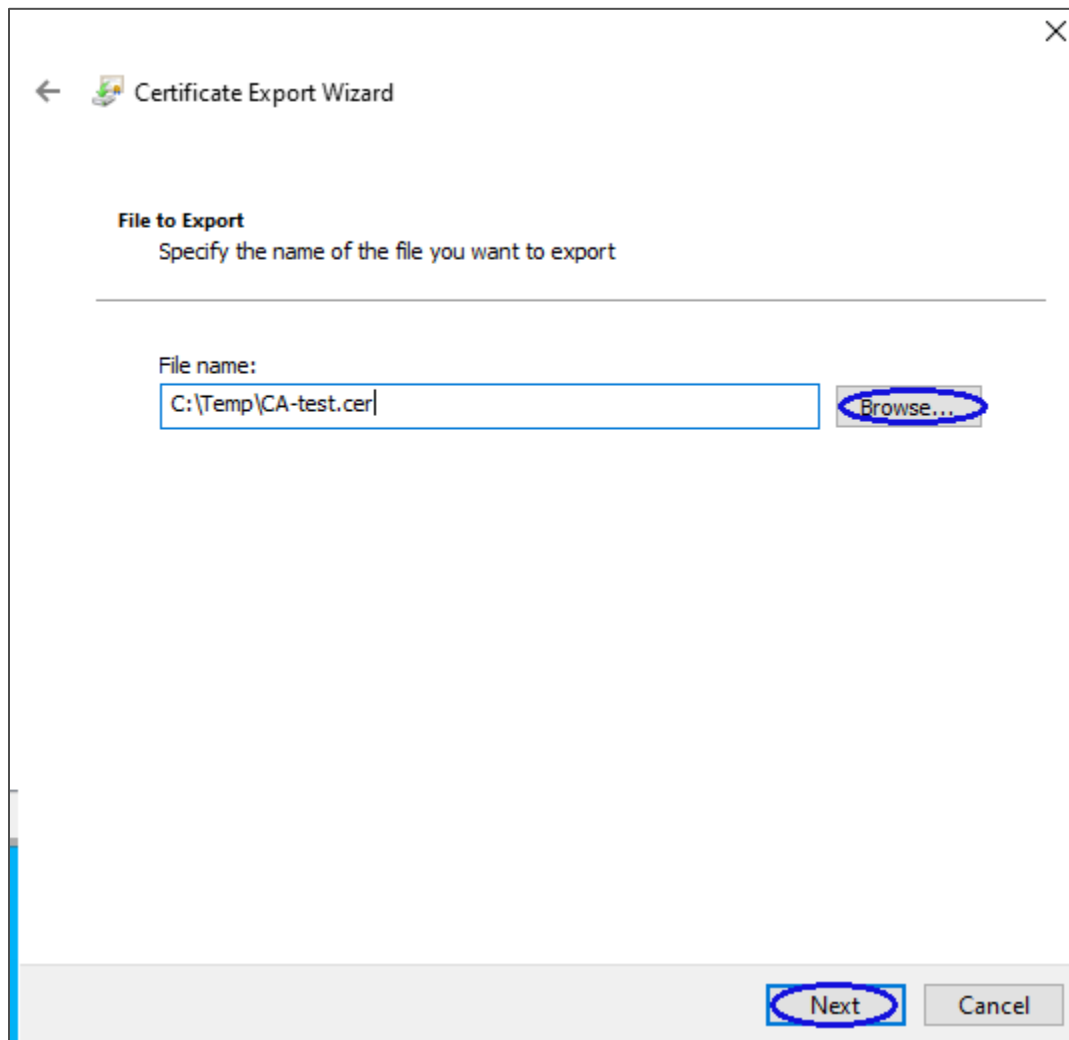
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7. When the **Certificate Export Wizard** window opens, click **Next**.
8. Select **Base-64 encoded X.509 (.CER)** and then click **Next**.



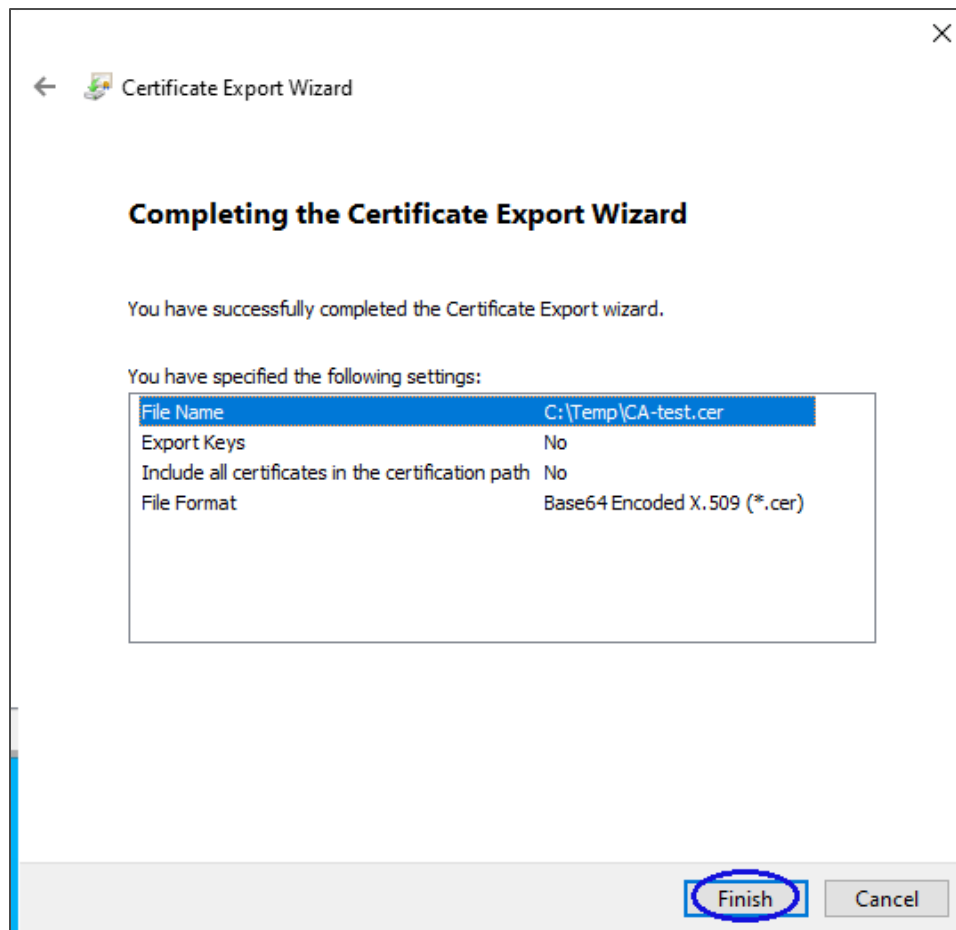
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9. Use the **Browse** button to select a location to save the certificate file to, and provide a name for the certificate.
10. Click **Next** to continue.

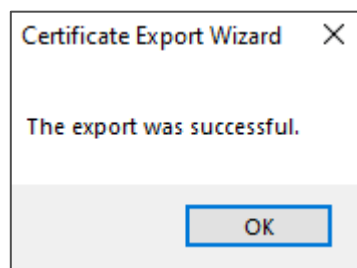


# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

11. Click the **Finish** button to export the certificate.



12. You will receive a message to confirm the certificate export was a success. Click **OK**. Close all of the open windows and proceed to the [Upload Certificate](#) section of this document. Make sure you have access to the exported .cer file on the computer you will use to upload the certificate to Nagios Network Analyzer.

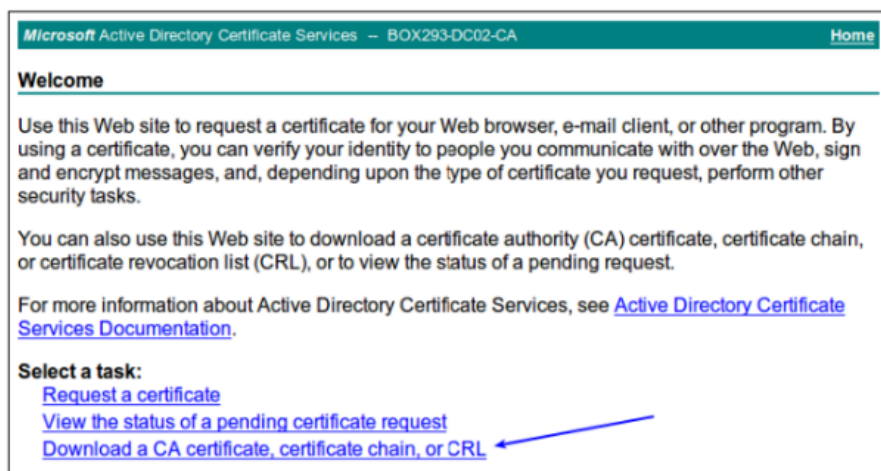


# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

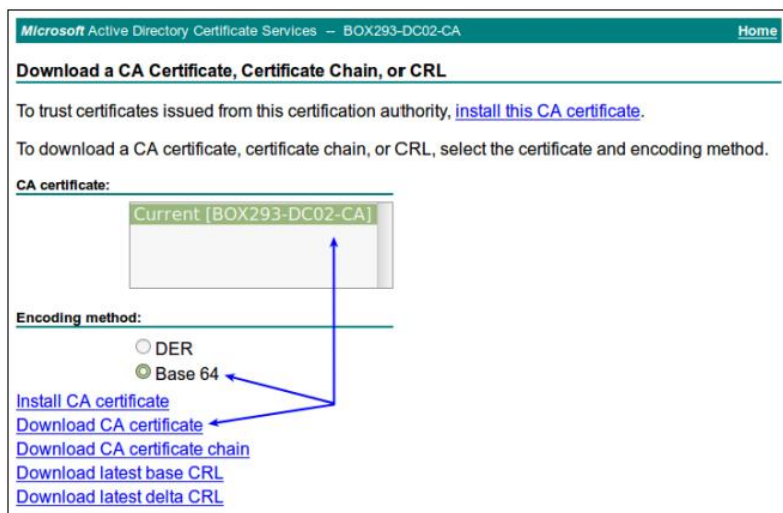
## Method 2: CA Server Web Interface

If the CA server publishes the Certificate Services web page, you can download the CA certificate directly from there.

1. Navigate to `http://<caservername>/certsrv`. Replace `<caservername>` with the address of your CA server. Provide valid credentials when prompted. You will be presented with a page similar to this screenshot.



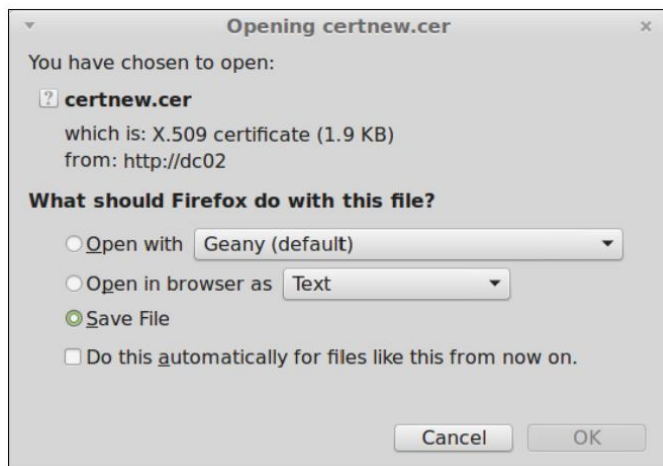
2. Click the **Download a CA certificate, certificate chain, or CRL** link.
3. Select the CA certificate from the list of available certificates.
4. Select **Base 64**.
5. Click the **Download CA certificate** link.





# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

6. You will be prompted by your web browser to save the file; it should be named `certnew.cer`. This will vary depending on the web browser you are using.



Proceed to the [Upload Certificate](#) section of this document. Make sure you have access to the exported `.cer` file on the computer you will use to upload the certificate to Nagios Network Analyzer.

## Obtaining The Certificate - LDAP Server

There are many implementations of LDAP servers, making it difficult to document the exact location of your CA certificate file. One method is to search the `cn=config` for the `olcTLSCACertificateFile` attribute. Execute the following command on your LDAP server:

```
slapcat -b cn=config | grep olcTLSCACertificateFile
```

An example of the output is as follows:

```
olcTLSCACertificateFile: /etc/openldap/certs/ca_contoso2_cert.pem
```

You can see the location of the CA certificate file in the output. In the [Upload Certificate](#) section of this document, you will be required to copy and paste the contents of this file. To view the contents, execute the following command:

```
cat /etc/openldap/certs/ca_contoso2_cert.pem
```

Proceed to the [Upload Certificate](#) section of this document.

# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

## Upload Certificate

In this step you will upload the CA certificate to the Nagios Network Analyzer server.

1. Open the certificate you exported in a text editor such as Notepad. It will appear similar to this screenshot.
2. Select all of the text (**Ctrl + A**) and copy (**Ctrl + C**) it to your clipboard.

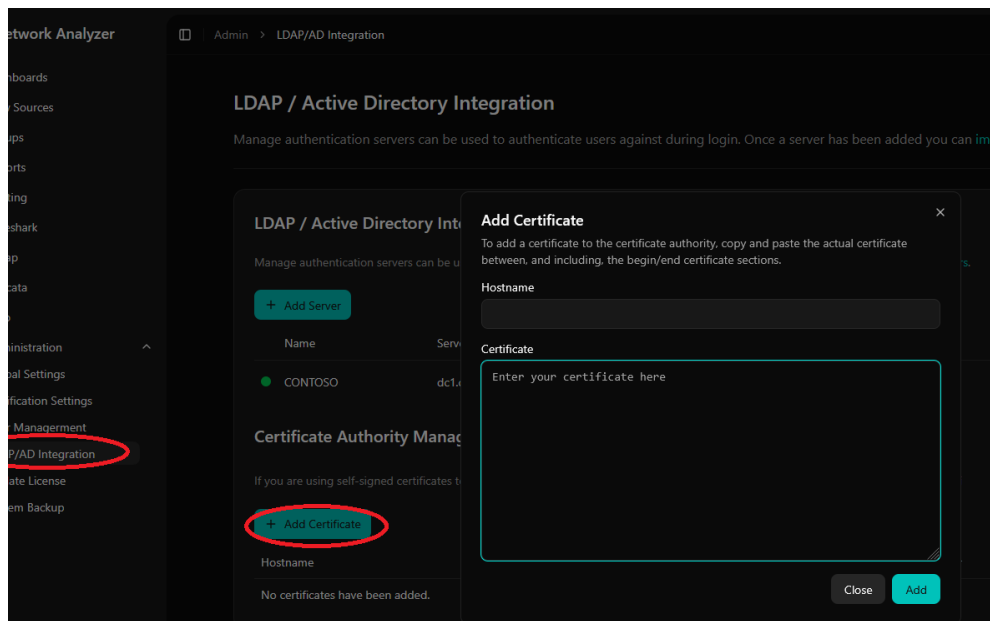
Make sure to include the

-----BEGIN CERTIFICATE----- and

-----END CERTIFICATE----- lines.

```
-----BEGIN CERTIFICATE-----
MIIFazCCA10gAwIBAgIQRkee45LY7JtEa3Z9QmbKpJANBgkqhkiG9w0BAQUFADBI
MRUwEwYKZiMiZPyLG0BGRYfB69jYwxfJAUBgoJkiaJk/IsZAEZFgZCT1gyOTMx
FzAVBgNVBAMTDkJPWDISMy1EQzAyLUNBMB4XDTE2MDcwNjASMzQyNFoXDTI2MDcw
NjASNDQyM1owSDEVMBMGcmSj0mT8ixkARKwBwkvY2FsMRyYFAKZiMiZPyLG0B
GRYGOk9YmjkzMRcwFQYDQDEw5CT1gyOTMxREMwMi1D0TCCA1IwDQYJKoZIhvcN
AQEBBQADggIPADCCAgcCggIBAMhxiI/3sYSB9LqCWiHG5fjQ9sd+wwLXYWPTgxZ
5F+CacNIHvYDuwA0TzLZLC08VvHymMOMRF1/Vro6JZB2IXBMXuRfMrxoSErudq
Wn1uFNdAp/cRHNHu6WDJ1h4UwAitNpmxIB6SK9Dqu5YzFqC1RzsGDDJVB05vmjg+
NcytPX3N2EYd7fn2vn1GuxYfV9d+qg/PFJ1w0kVuiB3L4iFIg86naCEc3RrDz6k2
/6wbqf034+wziXtcEezvpvxvofDg2LhYbDA8+rFP5GJU0LH0khAwv45209VT3gsG
PSQVP2td9opWf4mPx80Dz7o1z6I8eGtdQoBw0y+ki/Uu5/tGwQjCfD/5Nf/83L
0fmTahtGX800vYfU5HXKtc4kqGVL4akjTaQrryNgd30RnoiesBcdKrkEs+6brAM
w1HHQg6EK8xoh/tfRbpef0DqP9NEFJHwzBxwHMRG7zT/ivkp/E/WBX0yISMdLJV
lNPKf6ur2E2Zi1KtdokRtHiea0538fLnyNwApXwnikaQDhio0dgbjDHvwhf7K00Q
3hjDXBnCIhMDNqD1kv4NiJ94jV0yyQk3q6b/XCI19+hWNQnqv6m3As/Wv12zUweCY
Wn193w9nzVTUKRSFLJqmKsK5A8u2HdVBHQKCM3Hm/3/cLq9+A+1ukYTcRm5/0cb
TkcrAgMBAAGjUTBPMASGA1UdDwQEAwIBhjAPBgNVHRMBAf8EBTADAQH/MB0GA1Ud
DgQWB8T0uyFW8jsRFvG8Y6wx1Lbu0XhoVDA0BgkrBGEAYI3FQEEAwIBADANBgkq
hkiG9w0BAQUFAAOCAgEACHz2b5jLHDVwxzt93rRGK/LfwvPyZh/4gUKRmYyGrkv
2wZARBUlfd3Fch8nzaFsx+LVZtJUZTjsKIMFgn09vHukMCCoIMBn2GH2w30N9P
SHSbrjvLMkClv0LeoJumTRx1mKYKhFFgLDK9Ma4T7XpICDURH8W/RiAYA0IA9b3
F0e2qVhPXMbxv3/1K8q1icArfLoqNga0GpCndYEUvp5YPSUK97cBH+ZVQfm40j
VCKd0Z3vMtaEcLhRSL+VfPlzVEjRhDjDzyf7VMC1jeTnGrbpc2LDQJWeWcM25os
VqyeBKN9Fv0Tj+1wD0QozKzVmzf8DWPegEkl9lt3lMaT9la31lPcvb0bHD1Rl
pyRlyZp7fmocz1X6i6xZldH9zd50XjGEV45BU/AkV6hiEzaZohXVR2xhnJt0rAZP
co9kfXQaMQNE3cpnnKEvs1fwxTDoPfo+EeaquYLPh0f8kOKF3iXZfo1i5kKQk+
GE0jXeFo8KJyewq4yF0dqv7vLJzFRdf0Lb4z1BA88sPARUScdI2ooocxK/8nf3M
TmYKLh/s+4i+3aaMRj0tpB9hIrK8C2gute4RL+0/6mPDvUced0icqMI+Bh+QG88V
/QxbAST1jfkua418VmbVNZVT0dxonuaxiCvqI+uAMHbAwZqXF21peJ0KYctfNjE=
-----END CERTIFICATE-----
```

3. Open Nagios Network Analyzer and navigate to **Administration > LDAP/AD Integration**.
4. Click the **Add Certificate** button.
5. The **Add Certificate** window will appear.



# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

6. Paste the text from your clipboard into the **Certificate** field. The formatting may look different from the text editor, but this is expected.
7. Once pasted, the **Hostname** field will automatically populate with the CA name.
8. Click the **Add** button to finish uploading this certificate to Nagios Network Analyzer.

Add Certificate

To add a certificate to the certificate authority, copy and paste the actual certificate between, and including, the begin/end certificate sections.

Hostname

contoso2-DC1-CA

Certificate

```
-----BEGIN CERTIFICATE-----
MIIDWTAKZWIECMTJ3SRV/2MDU0gqCOT1WV5Z15VNDLUpaEbyfXRTQSpTIPuPqRNE/n
R10CFZfj2LAohFcSrt9LqKu1v7QwQgmCgy9Q39I5rqrZBzI1o5WYHS6fv1+ZCT3
+v5yMDqntd2YkNKyN8ZbG62pRCEIsbB2BECAwEAAaNRME8wCwYDVROBPAQDAgAGGM8
GA1UdEwEBwQFMAMBaff8wHQYDVROBByEFPCt+QhZNdUaNSna+UHum3MBAGCS5GA
QQBgjCVAQQDAgEAMAAQGCsQGSIB3DQEBECWAA4IBAQCgNlMXM1XxHwTnew0udj1dke
TFW1Z1T1k6aNCvxt1hu+fHsIDnYdIzdIqGhpuuW0DBphRCaZ9vZTwcu0UzB14Bz
QLUhIKT+nA+ywsgr7h31E8dF0EAEPcTohg81xMPwbgrgifvrEFTvZ1kgfCSgpZH8A
U7bM2YEyn5vnPKa8cQJvCRQOIxR8XnRhxaH10jzK1JjU0937faqlskJt3hDe8m35z
vogpZH8AU7bM2YETHhiQkjEc4VIRKsmkNwXviTua4LXE2sr8CgpZH8AU7bM2YEGpZ
H8AU7bM2YEGpZH8AU7bM2YEGpZH8bj4XNLuxaECe7EntTAjS6cGYdrtcraUQSqBx
yYA8g4s/GZGpD9g/bk/CFpDayIDJ
-----END CERTIFICATE-----
```

Close

Add

9. Once the certificate is uploaded, it will appear in the list of certificates in the **Certificate Authority Management** section.

### Certificate Authority Management

If you are using self-signed certificates to connect over SSL/TLS, you will need to add the domain controllers' certificates to the local certificate authority.

+ Add Certificate

Hostname	Issuer (CA)	Expiration Date
contoso2-DC1-CA	contoso2-DC1-CA	Wed Feb 02 2033 13:29:57 GMT-0600 (Central Standard Time)

This completes uploading the certificate to Nagios Network Analyzer.

# How To Use SSL/TLS For AD And LDAP In Nagios Network Analyzer 2026

## Configure Authentication Server

This guide does not explain how to add an Authentication Server to Nagios Network Analyzer, please refer to the [Authenticating And Importing Users With AD and LDAP](#) documentation.

The following screenshot shows the Security setting that requires authentication to use SSL/TLS with certificates.



You do not actually define which CA certificate is used. When Nagios Network Analyzer is presented with a certificate from the LDAP/AD server, the Nagios Network Analyzer checks it's local CA store for the CA certificate to validate the certificate provided by the LDAP/AD server.

## Finishing Up

This completes the documentation on how to use SSL/TLS with AD and LDAP in Nagios Network Analyzer. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)