



Wildcard SSL Certificate Renewal Process

Virtual Desktop Service

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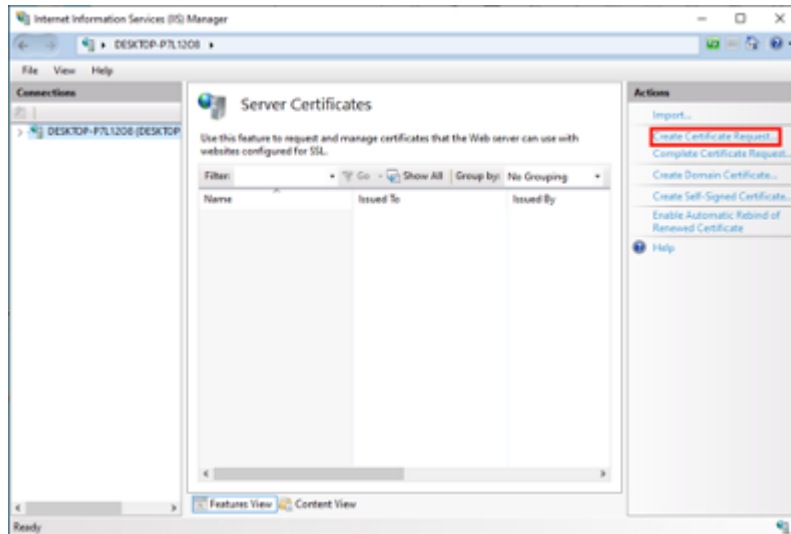
Table of Contents

- Wildcard SSL Certificate Renewal Process 1
 - Create a certificate signing request (CSR): 1
 - Installing and configuring CSR: 3
 - Assigning SSL certificate:..... 4

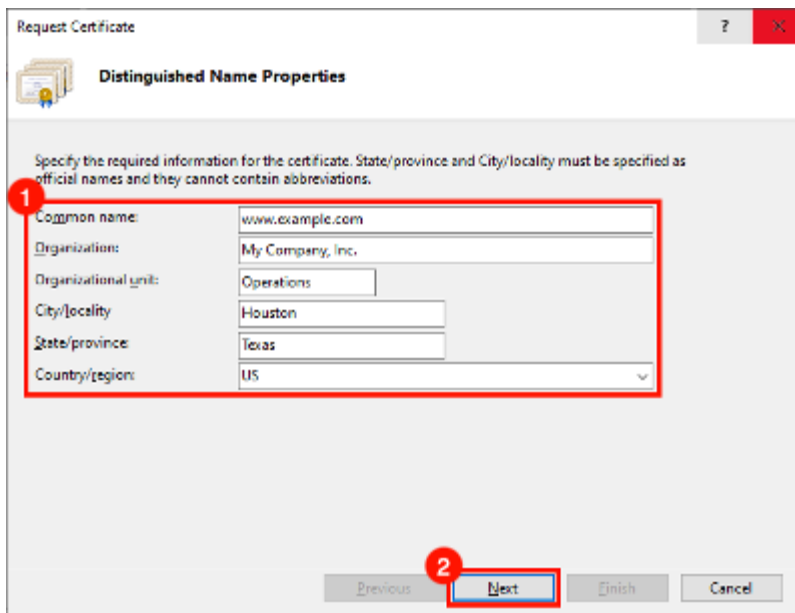
Wildcard SSL Certificate Renewal Process

Create a certificate signing request (CSR):

1. Connect to CWMGR1
2. Open IIS Manager from Administrator Tools
3. Select CWMGR1 and open Server Certificates
4. Click on Create Certificate Request in the Actions pane



5. Fill out the Distinguished Name Properties in the Request Certificate Wizard and click Next:
 - a. Common Name: FQDN of Wildcard - *.domain.com
 - b. Organization: Your company's legally registered name
 - c. Organizational unit: 'IT' works fine
 - d. City: City where company is located
 - e. State: State where company is located
 - f. Country: Country where company is located



The dialog box is titled "Request Certificate" and "Distinguished Name Properties". It contains a text box for "Common name" with the value "www.example.com", a text box for "Organization" with the value "My Company, Inc.", a text box for "Organizational unit" with the value "Operations", a text box for "City/locality" with the value "Houston", a text box for "State/province" with the value "Texas", and a dropdown menu for "Country/region" with the value "US". A red box highlights the entire form area, and a red circle with the number "1" is next to the "Common name" text box. At the bottom, there are buttons for "Previous", "Next", "Finish", and "Cancel". A red box highlights the "Next" button, and a red circle with the number "2" is next to it.

Request Certificate

Distinguished Name Properties

Specify the required information for the certificate. State/province and City/locality must be specified as official names and they cannot contain abbreviations.

Common name: www.example.com

Organization: My Company, Inc.

Organizational unit: Operations

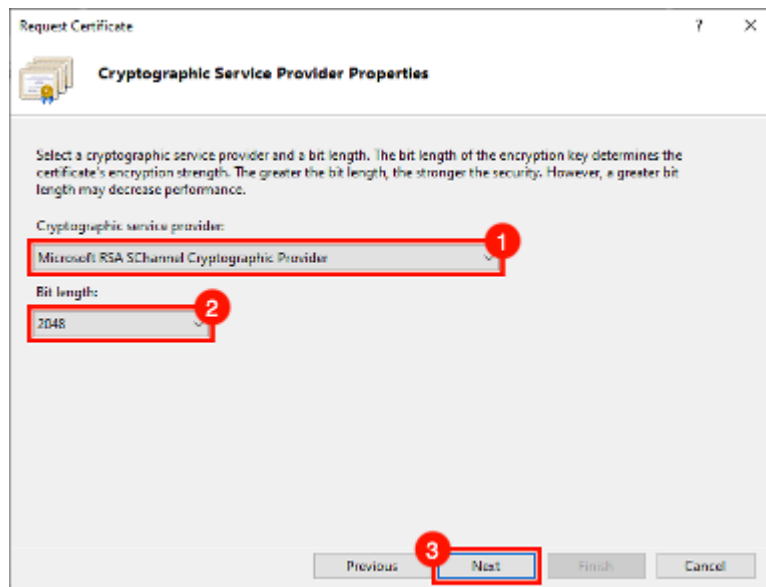
City/locality: Houston

State/province: Texas

Country/region: US

Previous Next Finish Cancel

6. On the Cryptographic Service Provider Properties page, verify the below appears and click Next:



The dialog box is titled "Request Certificate" and "Cryptographic Service Provider Properties". It contains a text box for "Cryptographic service provider" with the value "Microsoft RSA SChannel Cryptographic Provider", and a text box for "Bit length" with the value "2048". A red box highlights the "Cryptographic service provider" text box, and a red circle with the number "1" is next to it. Another red box highlights the "Bit length" text box, and a red circle with the number "2" is next to it. At the bottom, there are buttons for "Previous", "Next", "Finish", and "Cancel". A red box highlights the "Next" button, and a red circle with the number "3" is next to it.

Request Certificate

Cryptographic Service Provider Properties

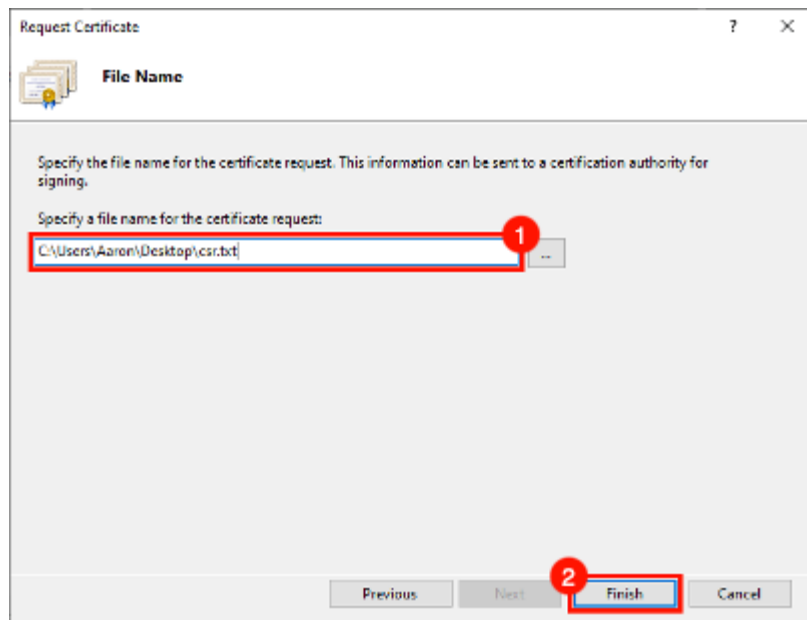
Select a cryptographic service provider and a bit length. The bit length of the encryption key determines the certificate's encryption strength. The greater the bit length, the stronger the security. However, a greater bit length may decrease performance.

Cryptographic service provider: Microsoft RSA SChannel Cryptographic Provider

Bit length: 2048

Previous Next Finish Cancel

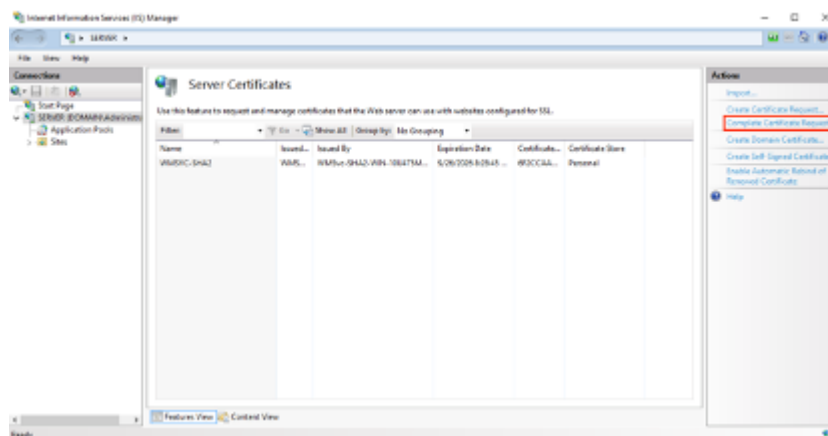
7. Specify a file name and browse to a location where you want to save the CSR. If you do not specify a location, the CSR will be in C:\Windows\System32:



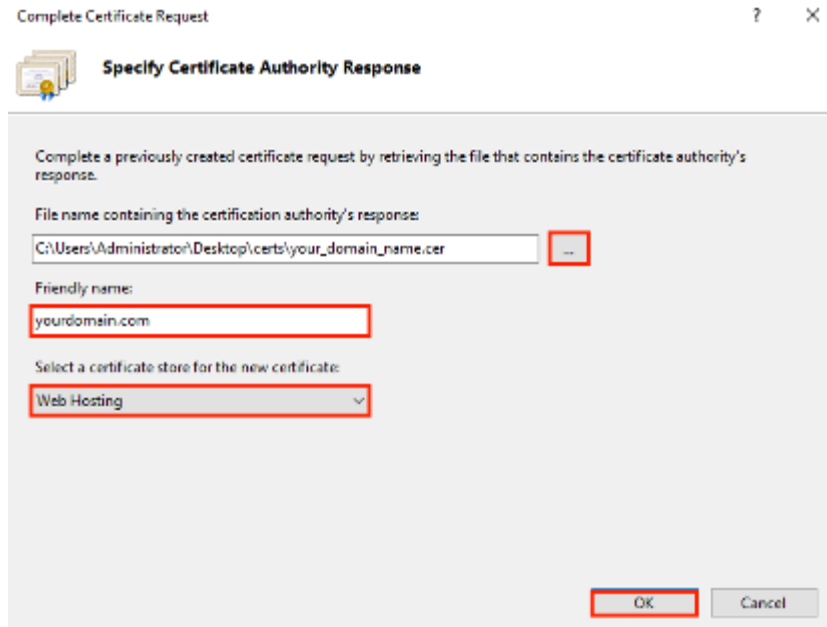
8. Click Finish when completed. You will use this text file to submit your order to certificate registrar
9. Reach out to registrar support to purchase a new Wildcard SSL for your certificate: *.domain.com
10. After receiving your SSL certificate, save the SSL certificate .cer file in a location on CWMGR1 and follow the below steps.

Installing and configuring CSR:

1. Connect to CWMGR1
2. Open IIS Manager from Administrator Tools
3. Select CWMGR1 and open 'Server Certificates'
4. Click on Complete Certificate Request in the Actions pane



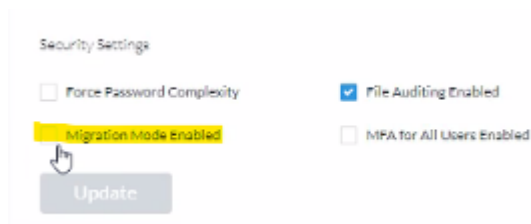
5. Complete the below fields in the Complete Certificate Request and click OK:



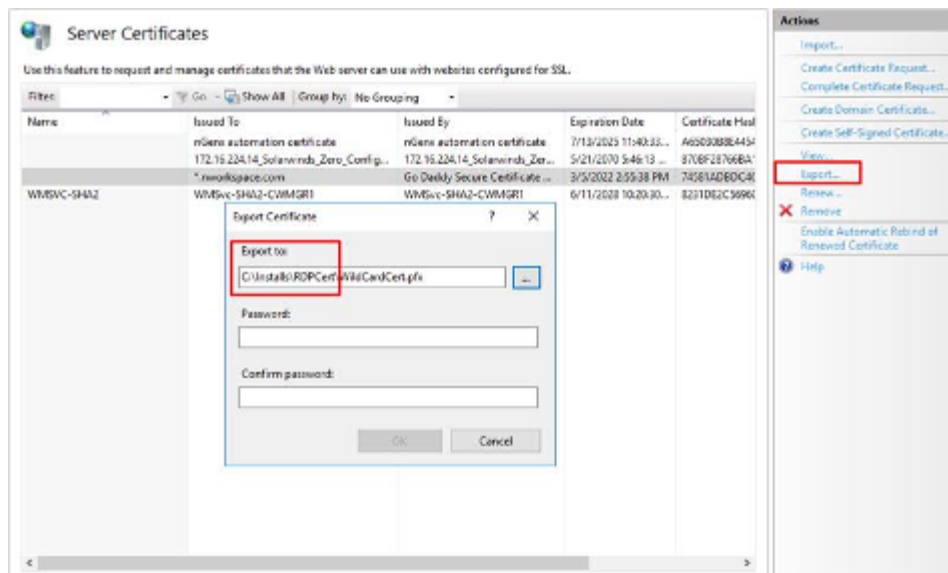
- a. File Name: Select .cer file that was saved previously
- b. Friendly name: *.domain.com
- c. Certificate store: Select either Web Hosting or Personal

Assigning SSL certificate:

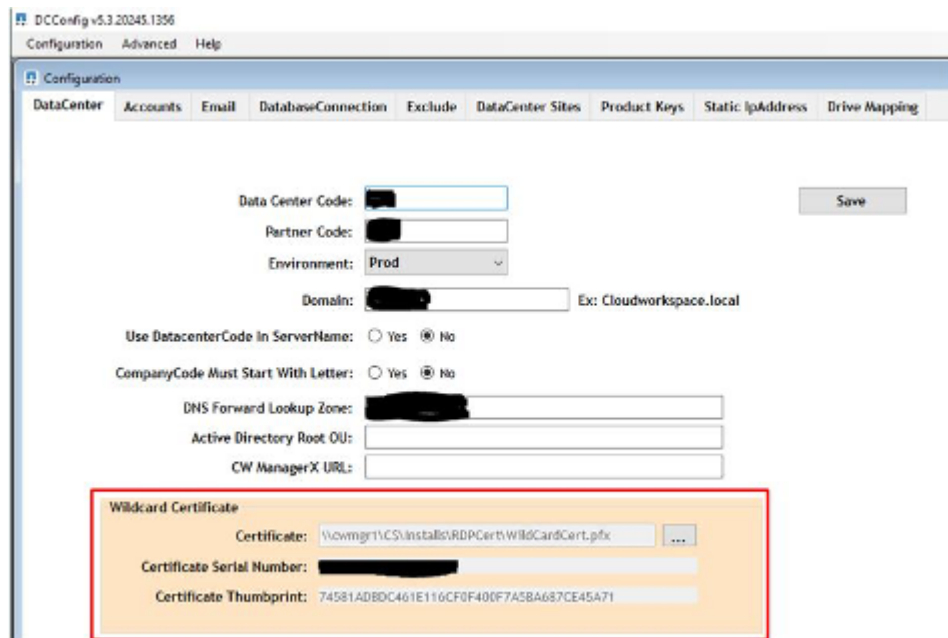
1. Verify that Migration Mode is not enabled. This can be found on the Workspace Overview page under Security Settings in VDS.



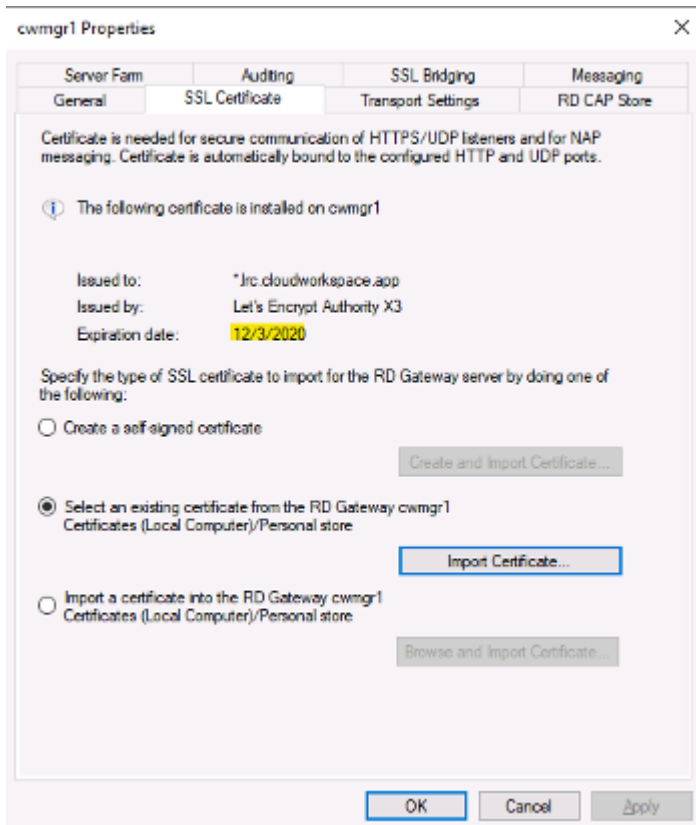
2. Connect to CWMGR1
3. Open IIS Manager from Administrator Tools
4. Select CWMGR1 and open 'Server Certificates'
5. Click on Export in the Actions pane
6. Export the certificate in .pfx format
7. Create a password. Store password as it will be needed to import or re-use .pfx file in the future
8. Save .pfx file to the C:\installs\RDPcert directory
9. Click OK and close IIS Manager



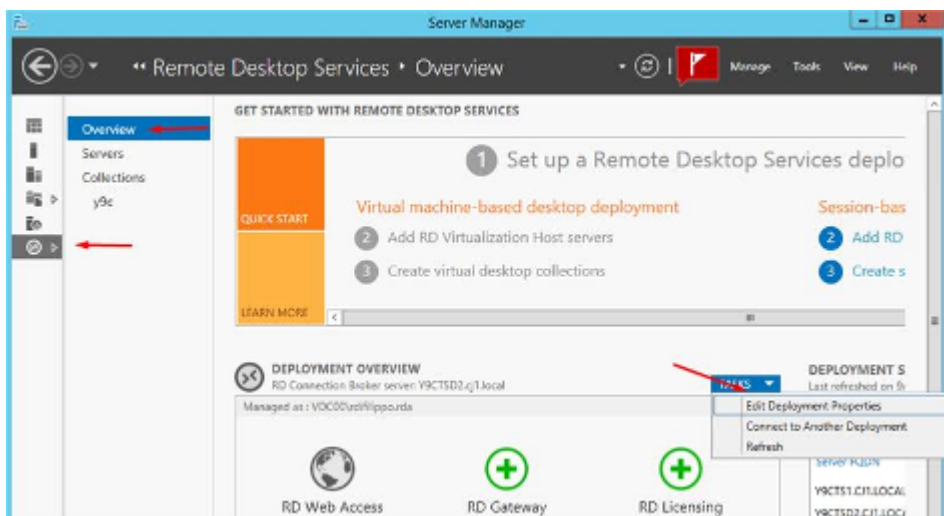
10. Open DCConfig
11. Under Wildcard Certificate, update the Certificate path to new .pfx file
12. Enter .pfx password when prompted
13. Click Save



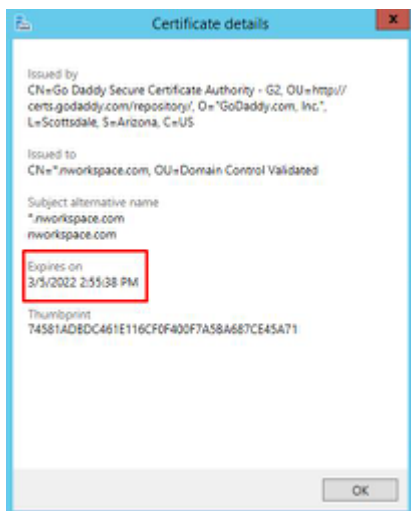
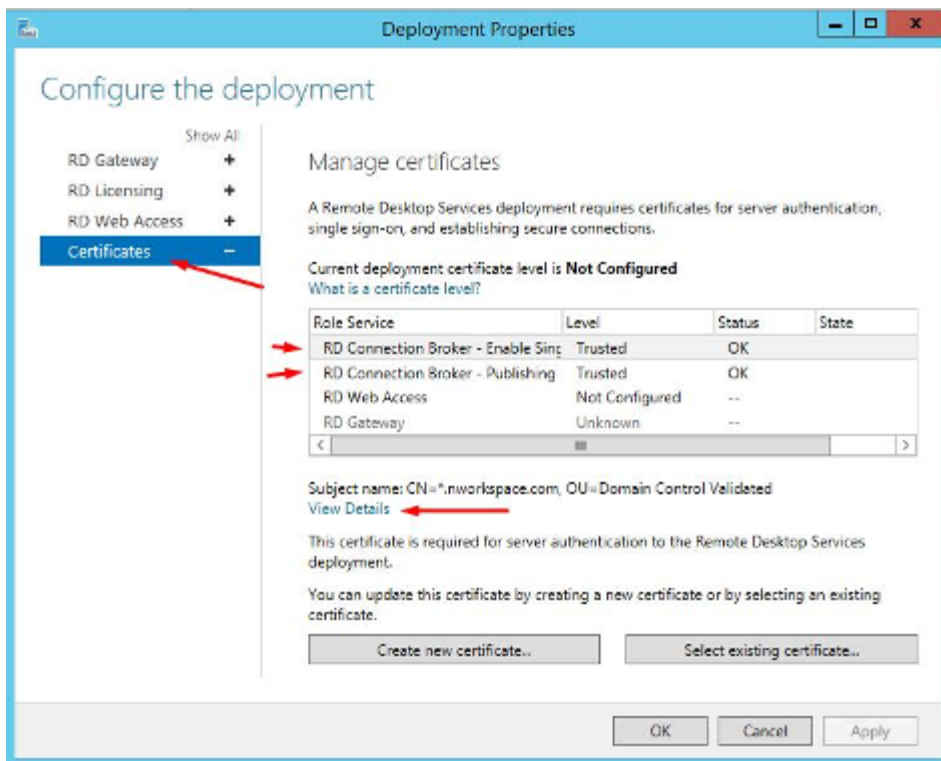
14. If the certificate is valid for 30 more days, allow automation to apply the new certificate during the morning Daily Actions task throughout the week
15. Periodically check the Platform servers to verify that the new certificate has propagated. Validate and test user connectivity to confirm.
 - a. On the server, go to Admin Tools
 - b. Select Remote Desktop Services > Remote Desktop Gateway Manager
 - c. Right click on gateway server name, select Properties. Click on the SSL Certificate tab to review expiration date



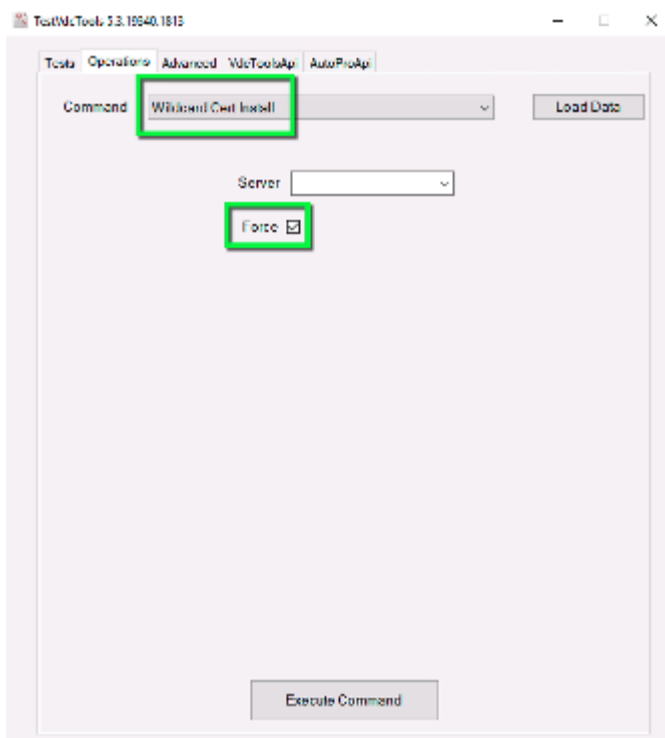
16. Periodically check the client VMs that are running the Connection Broker role
 - a. Go to Server Manager > Remote Desktop Services
 - b. Under Deployment Overview, select Tasks dropdown and choose Edit Deployment Properties



- c. Click on Certificates, select certificate and click View Details. Expiration date will be listed.



17. If less than 30 days or you prefer to push out the new certificate immediately, force the update with TestVdcTools. This should be done during a maintenance window as connectivity for any users logged in and your connection to CWMGR1 will be lost.
 - a. Go to C:\Program Files\CloudWorkspace\TestVdcTools, click the Operations tab and select the Wildcard Cert-Install command
 - b. Leave the server field blank
 - c. Check the Force box
 - d. Click Execute Command
 - e. Verify certificate propagates using the steps listed above



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