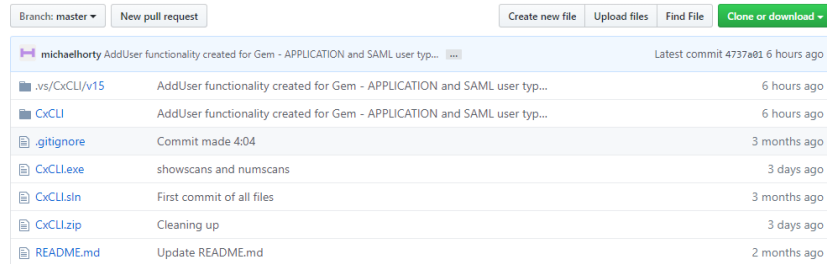


CxCLI: Setup Guide

CxSAST Automation using legacy SOAP APIs – versions 8.4.1 to 8.8 tested

Step 1: Download ZIP file from [CxTS Wiki](#) or [GitHub](#)



File	Commit	Time
vs/CxCLI/v15	AddUser functionality created for Gem - APPLICATION and SAML user typ...	6 hours ago
CxCLI	AddUser functionality created for Gem - APPLICATION and SAML user typ...	6 hours ago
.gitignore	Commit made 4:04	3 months ago
CxCLI.exe	showscans and numscans	3 days ago
CxCLIsln	First commit of all files	3 months ago
CxCLI.zip	Cleaning up	3 days ago
README.md	Update README.md	2 months ago

All files for execution ➡

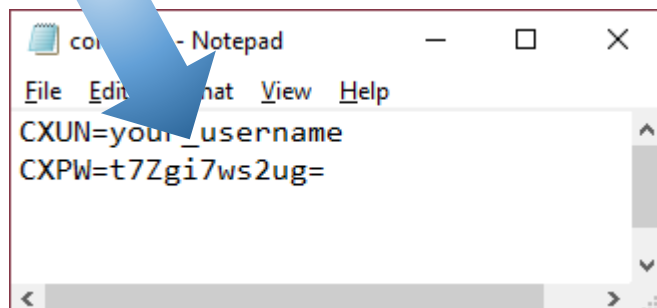
Step 2: Create a folder, unzip files into it

config.txt	➡	Contains username and password for CxSAST
CxCLI.exe	➡	The main executable
CxCLI.exe.config	➡	Binds the .exe with the SOAP WSDL of CxSAST server
CxCLI.exe.configSSLVERSION	➡	This config file should be used if CxSAST is SSL

Step 3: Define your credentials in *config.txt* using CxCLI's *encrypt* command

```
c:\CxCLI>cxcli encrypttext=yourpassword  
encrypted_text=t7Zgi7ws2ug=
```

Step 4: Update the *config.txt* text file with your credentials (App or LDAP)



CxCLI: Setup Guide

(page 2)

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Step 5: If the CxSAST server uses SSL, rename *CxCLI.exe.configSSLVERSION* to *CxCLI.exe.config*

Step 6: Update the *CxCLI.exe.config* file with the URL of the CxSAST server

Non-SSL
CxCLI.exe.config
changes

```
File Edit Format View Help
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <startup>
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.2" />
  </startup>
  <system.diagnostics>
    <trace autoflush="false" indentsize="4">
      <listeners>
        <add name="configConsoleListener" type="System.Diagnostics.ConsoleTraceListener">
        </add>
      </listeners>
    </trace>
  </system.diagnostics>
  <system.serviceModel>
    <bindings>
      <basicHttpBinding>
        <binding name="CxPortalWebServiceSoap" maxBufferPoolSize="2147483647"
          maxBufferSize="2147483647" maxReceivedMessageSize="2147483647" />
        <binding name="CxSDKWebServiceSoap" maxBufferPoolSize="2147483647"
          maxReceivedMessageSize="2147483647" />
      </basicHttpBinding>
    </bindings>
    <client>
      <endpoint address="http://localhost/cxwebinterface/Portal/CxWebService.asmx"
        binding="basicHttpBinding" bindingConfiguration="CxPortalWebServiceSoap"
        contract="CxPortal.CxPortalWebServiceSoap" name="CxPortalWebServiceSoap" />
      <endpoint address="http://localhost/cxwebinterface/SDK/CxSDKWebService.asmx"
        binding="basicHttpBinding" bindingConfiguration="CxSDKWebServiceSoap"
        contract="CxSDKNs.CxSDKWebServiceSoap" name="CxSDKWebServiceSoap" />
    </client>
  </system.serviceModel>
</configuration>
```

SSL version of
CxCLI.exe.config
changes

```
File Edit Format View Help
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <startup>
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.2" />
  </startup>
  <system.serviceModel>
    <bindings>
      <basicHttpBinding>
        <binding name="httpsBinding" allowCookies="true" maxReceivedMessageSize="2147483647" maxBuffe
          <readerQuotas maxDepth="2147483647" maxStringContentLength="2147483647" maxArrayLength="2147483647"
          <security mode="Transport">
            <transport clientCredentialType="None" />
          </security>
        </binding>
      </basicHttpBinding>
    </bindings>
    <services>
      <service name="CxPortalWebServiceSoap" behaviorConfiguration="CxPortalWebServiceSoap">
        <endpoint contract="CxPortal.CxPortalWebServiceSoap" binding="basicHttpBinding" bindingConfiguration="
      </service>
      <service name="CxSDKWebServiceSoap" behaviorConfiguration="CxSDKWebServiceSoap">
        <endpoint contract="CxSDKNs.CxSDKWebServiceSoap" binding="basicHttpBinding" bindingConfiguration="htt
      </service>
    </services>
    <client>
      <endpoint address="https://localhost/cxwebinterface/Portal/CxWebService.asmx"
        binding="basicHttpBinding" bindingConfiguration="httpsBinding"
        contract="CxPortal.CxPortalWebServiceSoap" name="CxPortalWebServiceSoap" />
      <endpoint address="https://localhost/cxwebinterface/SDK/CxSDKWebService.asmx"
        binding="basicHttpBinding" bindingConfiguration="httpsBinding"
        contract="CxSDKNs.CxSDKWebServiceSoap" name="CxSDKWebServiceSoap" />
    </client>
  </system.serviceModel>
</configuration>
```

Step 7: Test it! *CxCLI help* (Help file shown on next pages)

>CxCLI.exe help

Help file updated with each new CxCLI command

CxCLI allows SOAP interaction with CxServer via Windows Command Line

Submit KEY/VALUE (K/V) pairs in the form key=value, example user=mhorty
Optional - use quotes around values to preserve text with spaces

For all calls, loggingenabled=true details activity inside currutil_log.txt

COMMAND	K/V Pairs	DETAIL
help		Produces this help file
encrypt	text	TEXT=text to encrypt - Returns encrypted data (ie for CxPassword in config.txt)
userexist	user,match	MATCH=username/mail, USER=user data - Returns true if user exists
getpresets		Get list of Presets by ID
getpresetdef	id	id=[PresetID] - Returns details of Preset
addpreset	name,queries	Name of Preset,Queries separated by commas to Add Preset
cancelscans		Cancels all active scans in Queued Status
showscans	type,mins	TYPE=queued/failed/completed, MINS(optional)=Summarize for past X minutes
numscans	type,mins	TYPE=queued/failed/completed, MINS(optional)=Summarize for past X minutes
enableusers	file,match	MATCH=username/mail, FILE=text file of users, 1 per line
disableusers	file,match	MATCH=username/mail, FILE=text file of users, 1 per line
deleteusers	file,match	MATCH=username/mail, FILE=text file of users, 1 per line
userexpire	days	DAYS=show users expiring within X days
setuserexpire	days,newdate	DAYS=Users expiring within X days,NEWDATE=MM/DD/YYYY
edituser	addgroup,match	MATCH=username/mail, ADDGROUP=group(s) to add user to
edituser	subtractgroup,match	MATCH=username/mail, SUBTRACTGROUP=group(s) to remove user from
edituser	changerole,match	MATCH=username/mail, CHANGEROLE=Scanner or Reviewer - Change role of user
edituser	status,match	MATCH=username/mail, STATUS=enable/disable/delete - Change status of user
adduser	** ADDUSER HAS MANY PARAMETERS **	
---The following parameters are REQUIRED:		
usertype	- either APPLICATION,LDAP or SAML	
username	- Username of user *without* prefix (eg LDAP\ or SAML\)	
role	- ServerManager,CompanyManager,SPManager,Scanner,Reviewer	
firstname	- First name	
lastname	- Last name	
team	- Fully qualified team name(s) eg	
CxServer\SP\Company\Team1,CxServer\SP\Company\Team2		
email	- User email address	
password	- User password (required only if APPLICATION user type	
---The following parameters are OPTIONAL:		
activeuser	- Boolean, Determines if user is active [DEFAULT=TRUE]	
audituser	- Boolean, Determines if user has CxAudit permission [DEFAULT=FALSE]	
expiredays	- Number of days before user expires [DEFAULT=365]	
langlcid	- Language type [DEFAULT=1033 (English/US)]	
country	- Country	
phone	- Phone	
cellphone	- Cellphone	

Example, encrypt your password:
 CMD>cxcli encrypt text=passwordtext
 encrypted_text=yADi4Mkw3cUqC8mtiUOyh/dZ5TuzCl5i4Gx0hmVftw8=

Example, check user's existence:
 CMD>cxcli userexist user=mhorty match=username
 TRUE

```
-----
C:\>cxcli userexpire days=365
miketyson mt@cx.com expires in 76 days
jerryseinfeld jf@cx.com expires in -119 days *EXPIRED*
janedoe jd@cx.com expires in -119 days *EXPIRED*
```

```
C:\>cxcli setuserexpire days=-100 newdate=4/15/2019
For users expiring in <-100 days, set to 4 days (4/15/2019)
jerryseinfeld jf@cx.com now expires in 4 days: True
janedoe jd@cx.com now expires in 4 days: True
```

Examples, enable/disable/delete users from file:

```
-----
CMD>cxcli disableusers file="c:\Folder Name\some_file_1_username_per_line.txt" match=username
Matching username on 3 entries
User SAML\testuser1: testuser@cx.com disabled
User tnuertest: tnu@cx.com disabled
User miketyson: mt@cx.com disabled
```

```
CMD>CxCLI enableusers file="c:\Folder Name\some_file_1_email_per_line.txt" match=mail
Matching mail on 3 entries
User SAML\testuser1: testuser@cx.com enabled
User tnuertest: tnu@cx.com enabled
User miketyson: mt@cx.com enabled
```

Examples, various functions of edituser:

```
-----
-----Roles
CMD>CxCLI edituser user=mt@cx.com match=mail changerole=Reviewer
changerole = reviewer miketyson: mt@cx.com
No change necessary
```

```
CMD>cxcli edituser user=miketyson match=username changerole=Scanner
changerole = scanner miketyson: mt@cx.com
Changing role from Scanner To Scanner
Submitting Role Change: True
```

```
-----Groups
CMD>CxCLI edituser user=def111@cx.com match=mail addgroup=TeamA
Submitting change - True
```

```
CMD>cxcli edituser user=def111@cx.com match=mail subtractgroup=TeamA,ProjectComponent1
subtractgroup = teama,projectcomponent1 def111:def111@cx.com
Submitting change - True
```

```
CMD>CxCLI edituser user=def111@cx.com match=mail addgroup=NonExistTeam
addgroup = nonexistteam def111def111@cx.com
Submitting change - ERROR: def111 -General error occurred. Please refer to application admin -
Could Not update groups
```

-----Status

```
CMD>CxCLI edituser user=502752445 match=username status=delete
status = delete 502752445:Service.account@cust.com
User 502752445:Service.account@cust.com  deleted
```

```
CMD>CxCLI edituser user=def111@cx.com match=mail status=enable
status = enable def111:def111@cx.com
User def111:def111@cx.com  enabled
```

```
CMD>CxCLI edituser user=def111@cx.com match=mail status=disable
status = disable def111:def111@cx.com
User def111:def111@cx.com  disabled
```

Examples, add users:

```
c:\>cxcli adduser username=testcxcli55 firstname=Test55 lastname=CxCLI role=Scanner
email=testcxcli55@cx.com team=CxServer\SP\Company\Users usertype=application
password=Password12345!
DEFAULT audituser=false
DEFAULT activeuser=true
DEFAULT langlcid=1033 (English)
DEFAULT expiredays=365
Adding user application testcxcli55 testcxcli55@cx.com Test55 CxCLI 0(Scanner)
CxServer\SP\Company\Users 1 1033 False True 365
User added: True
```

```
c:\>cxcli adduser username=testcxcli66 firstname=Test56 lastname=CxCLI role=ServerManager
email=testcxcli66@cx.com team=CxServer usertype=application password=Password12345!
DEFAULT audituser=false
DEFAULT activeuser=true
DEFAULT langlcid=1033 (English)
DEFAULT expiredays=365
Adding user application testcxcli66 testcxcli66@cx.com Test56 CxCLI 5(ServerManager) CxServer
1 1033 False True 365
User added: True
```