

Defenders should simply build a baseline of certutil.exe. I've attached some of the variation of commands.

Verbs:	
-dump	Dump configuration information or
-dumpPFX	Dump PFX structure
-asn	Parse ASN.1 file
-decodehex	Decode hexadecimal-encoded file
-decode	Decode Base64-encoded file
-encode	Encode file to Base64
dony	Dany nanding paguast
-deny -resubmit	Deny pending request
-resubmit -setattributes	Resubmit pending request
	Set attributes for pending reques
-setextension -revoke	Set extension for pending request Revoke Certificate
-isvalid	Display current certificate dispo
-getconfig	Get default configuration string
-ping	Ping Active Directory Certificate
-pingadmin	Ping Active Directory Certificate
-CAInfo	Display CA Information
-ca.cert	Retrieve the CA's certificate
-ca.chain	Retrieve the CA's certificate cha
-GetCRL	Get CRL
-CRL	Publish new CRLs [or delta CRLs c
-shutdown	Shutdown Active Directory Certifi
-installCert	Install Certification Authority c
-renewCert	Renew Certification Authority cer
b - m -	Duma Contificate Caboura
-schema	Dump Certificate Schema
-view	Dump Certificate View
-db	Dump Raw Database
-deleterow	Delete server database row
-backup	Backup Active Directory Certifica
-backupDB	Backup Active Directory Certifica
-backupKey	Backup Active Directory Certifica
-restore	Restore Active Directory Certific
-restoreDB	Restore Active Directory Certific
-restoreKey	Restore Active Directory Certific
-importPFX	Import certificate and private ke
-dynamicfilelist	Display dynamic file List
-databaselocation	s Display database locations
-hashfile	Generate and display cryptographi
-store	Dump certificate store
-enumstore	Enumerate certificate stores
-addstore	Add certificate to store

```
-- Delete certificate from store
-delstore
                 -- Verify certificate in store
-verifystore
                 -- Repair key association or update
-repairstore
-viewstore
                 -- Dump certificate store
-viewdelstore
                 -- Delete certificate from store
-UI
                 -- invoke CryptUI
-attest
                 -- Verify Key Attestation Request
-dsPublish
                 -- Publish certificate or CRL to Act
                 -- Display AD templates
-ADTemplate
                 -- Display Enrollment Policy templat
-Template
-TemplateCAs
                 -- Display CAs for template
                 -- Display templates for CA
-CATemplates
-SetCASites
                 -- Manage Site Names for CAs
-enrollmentServerURL -- Display, add or delete enrollm
                 -- Display AD CAs
-CA
                 -- Display Enrollment Policy CAs
-Policy
                 -- Display Enrollment Policy
-PolicyCache
                 -- Display or delete Enrollment Poli
                 -- Display, add or delete Credential
-CredStore
-InstallDefaultTemplates -- Install default certificat
                 -- Display or delete URL cache entri
-URLCache
                 -- Pulse autoenrollment event or NGC
-pulse
-MachineInfo
                 -- Display Active Directory machine
-DCInfo
                 -- Display domain controller informa
-EntInfo
                 -- Display enterprise information
-TCAInfo
                 -- Display CA information
-SCInfo
                 -- Display smart card information
-SCRoots
                 -- Manage smart card root certificat
                 -- Verify public/private key set
-verifykeys
                 -- Verify certificate, CRL or chain
-verify
-verifyCTL
                 -- Verify AuthRoot or Disallowed Cer
                 -- Sync with Windows Update
-syncWithWU
-generateSSTFromWU -- Generate SST from Windows Update
-generatePinRulesCTL -- Generate Pin Rules CTL
-downloadOcsp -- Download OCSP Responses and Write
-generateHpkpHeader -- Generate HPKP header using cert
-flushCache
              -- Flush specified caches in selecte
                 -- Add ECC Curve
-addEccCurve
-deleteEccCurve -- Delete ECC Curve
-displayEccCurve -- Display ECC Curve
-sign
                 -- Re-sign CRL or certificate
-vroot
                 -- Create/delete web virtual roots a
-vocsproot
                 -- Create/delete web virtual roots f
-addEnrollmentServer -- Add an Enrollment Server appli
-deleteEnrollmentServer -- Delete an Enrollment Server
-addPolicyServer -- Add a Policy Server application
-deletePolicyServer -- Delete a Policy Server applicat
                  -- Display ObjectId or set display n
-oid
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-- Display error code message text
  -error
                   -- Display registry value
  -getreg
                   -- Set registry value
  -setreg
                   -- Delete registry value
  -delreg
  -ImportKMS
                   -- Import user keys and certificates
  -ImportCert
                   -- Import a certificate file into th
  -GetKey
                   -- Retrieve archived private key rec
      or recover archived keys
  -RecoverKey -- Recover archived private key
  -MergePFX
                   -- Merge PFX files
  -ConvertEPF
                   -- Convert PFX files to EPF file
  -add-chain
                 -- (-AddChain) Add certificate chain
  -add-pre-chain -- (-AddPrechain) Add pre-certificat
 -get-sth
                   -- (-GetSTH) Get signed tree head
  -get-sth-consistency -- (-GetSTHConsistency) Get signe
  -get-proof-by-hash -- (-GetProofByHash) Get proof by h
  -get-entries
                  -- (-GetEntries) Get entries
  -get-roots
                   -- (-GetRoots) Get roots
  -get-entry-and-proof -- (-GetEntryAndProof) Get entry
                  -- Verify certificate SCT
  -VerifyCT
  - }
                   -- Display this usage message
Usage:
  CertUtil [Options] [-dump]
  CertUtil [Options] [-dump] [File]
  Dump configuration information or file
    [-f] [-user] [-Silent] [-split] [-p Password] [-t Ti
  CertUtil [Options] -dumpPFX File
  Dump PFX structure
    [-f] [-Silent] [-split] [-p Password] [-csp Provider
 CertUtil [Options] -asn File [type]
  Parse ASN.1 file
   type -- numeric CRYPT_STRING_* decoding type
  CertUtil [Options] -decodehex InFile OutFile [type]
  Decode hexadecimal-encoded file
    type -- numeric CRYPT_STRING_* encoding type
    [-f]
 CertUtil [Options] -decode InFile OutFile
  Decode Base64-encoded file
    [-f]
  CertUtil [Options] -encode InFile OutFile
  Encode file to Base64
    [-f] [-UnicodeText]
  CertUtil [Options] -deny RequestId
  Deny pending request
```

```
[-config Machine\CAName]
CertUtil [Options] -resubmit RequestId
Resubmit pending request
  [-config Machine\CAName]
CertUtil [Options] -setattributes RequestId AttributeS
Set attributes for pending request
  RequestId -- numeric Request Id of pending request
 AttributeString -- Request Attribute name and value
          Names and values are colon separated.
          Multiple name, value pairs are newline separ
          Example: "CertificateTemplate:User\nEMail:Us
          Each "\n" sequence is converted to a newline
  [-config Machine\CAName]
CertUtil [Options] -setextension RequestId ExtensionNa
Set extension for pending request
  RequestId -- numeric Request Id of a pending request
  ExtensionName -- ObjectId string of the extension
  Flags -- 0 is recommended. 1 makes the extension cr
  2 disables it, 3 does both.
 If the last parameter is numeric, it is taken as a L
  If it can be parsed as a date, it is taken as a Date
  If it starts with '@', the rest of the token is the
 Anything else is taken as a String.
  [-config Machine\CAName]
CertUtil [Options] -revoke SerialNumber [Reason]
Revoke Certificate
  SerialNumber -- Comma separated list of certificate
  Reason -- numeric or symbolic revocation reason:
         0: CRL_REASON_UNSPECIFIED -- Unspecified (d
          1: CRL_REASON_KEY_COMPROMISE -- Key Comprom
          2: CRL_REASON_CA_COMPROMISE -- CA Compromis
          3: CRL_REASON_AFFILIATION_CHANGED -- Affili
          4: CRL_REASON_SUPERSEDED -- Superseded
          5: CRL_REASON_CESSATION_OF_OPERATION -- Ces
          6: CRL_REASON_CERTIFICATE_HOLD -- Certifica
          8: CRL_REASON_REMOVE_FROM_CRL -- Remove Fro
          9: CRL_REASON_PRIVILEGE_WITHDRAWN -- Privil
          10: CRL_REASON_AA_COMPROMISE -- AA Compromis
          -1: Unrevoke -- Unrevoke
  [-config Machine\CAName]
CertUtil [Options] -isvalid SerialNumber | CertHash
Display current certificate disposition
  [-config Machine\CAName]
CertUtil [Options] -getconfig
Get default configuration string
  [-config Machine\CAName]
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CertUtil [Options] -ping [MaxSecondsToWait | CAMachine
Ping Active Directory Certificate Services Request int
  CAMachineList -- Comma-separated CA machine name lis
          For a single machine, use a terminating comm
          Displays the site cost for each CA machine
  [-config Machine\CAName] [-Anonymous] [-Kerberos] [-
  Modifiers:
    SCEP
    CES
    CEP
CertUtil [Options] -pingadmin
Ping Active Directory Certificate Services Admin inter
  [-config Machine\CAName]
CertUtil [Options] -CAInfo [InfoName [Index | ErrorCod
Display CA Information
  InfoName -- indicates the CA property to display (se
          Use "*" for all properties
  Index -- optional zero-based property index
  ErrorCode -- numeric error code
  [-f] [-split] [-config Machine\CAName]
  InfoName argument syntax:
      file -- File version
      product -- Product version
      exitcount -- Exit module count
      exit [Index] -- Exit module description
      policy -- Policy module description
      name -- CA name
      sanitizedname -- Sanitized CA name
      dsname -- Sanitized CA short name (DS name)
      sharedfolder -- Shared folder
      error1 ErrorCode -- Error message text
      error2 ErrorCode -- Error message text and error
      type -- CA type
      info -- CA info
      parent -- Parent CA
      certcount -- CA cert count
      xchgcount -- CA exchange cert count
      kracount -- KRA cert count
      kraused -- KRA cert used count
      propidmax -- Maximum CA PropId
      certstate [Index] -- CA cert
      certversion [Index] -- CA cert version
      certstatuscode [Index] -- CA cert verify status
      crlstate [Index] -- CRL
      krastate [Index] -- KRA cert
      crossstate+ [Index] -- Forward cross cert
      crossstate- [Index] -- Backward cross cert
      cert [Index] -- CA cert
      certchain [Index] -- CA cert chain
      certcrlchain [Index] -- CA cert chain with CRLs
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xchg [Index] -- CA exchange cert
      xchgchain [Index] -- CA exchange cert chain
      xchgcrlchain [Index] -- CA exchange cert chain w
      kra [Index] -- KRA cert
      cross+ [Index] -- Forward cross cert
      cross- [Index] -- Backward cross cert
      CRL [Index] -- Base CRL
      deltacrl [Index] -- Delta CRL
      crlstatus [Index] -- CRL Publish Status
      deltacr1status [Index] -- Delta CRL Publish Stat
      dns -- DNS Name
      role -- Role Separation
      ads -- Advanced Server
      templates -- Templates
      ocsp [Index] -- OCSP URLs
      aia [Index] -- AIA URLs
      cdp [Index] -- CDP URLs
      localename -- CA locale name
      subjecttemplateoids -- Subject Template OIDs
CertUtil [Options] -ca.cert OutCACertFile [Index]
Retrieve the CA's certificate
 OutCACertFile -- output file
  Index -- CA certificate renewal index (defaults to m
  [-f] [-split] [-config Machine\CAName]
CertUtil [Options] -ca.chain OutCACertChainFile [Index
Retrieve the CA's certificate chain
 OutCACertChainFile -- output file
 Index -- CA certificate renewal index (defaults to m
  [-f] [-split] [-config Machine\CAName]
CertUtil [Options] -GetCRL OutFile [Index] [delta]
Get CRL
 Index -- CRL index or key index (defaults to CRL for
 delta -- delta CRL (default is base CRL)
  [-f] [-split] [-config Machine\CAName]
CertUtil [Options] -CRL [dd:hh | republish] [delta]
Publish new CRLs [or delta CRLs only]
 dd:hh -- new CRL validity period in days and hours
  republish -- republish most recent CRLs
 delta -- delta CRLs only (default is base and delta
  [-split] [-config Machine\CAName]
CertUtil [Options] -shutdown
Shutdown Active Directory Certificate Services
  [-config Machine\CAName]
CertUtil [Options] -installCert [CACertFile]
Install Certification Authority certificate
  [-f] [-Silent] [-config Machine\CAName]
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CertUtil [Options] -renewCert [ReuseKeys] [Machine\Par
Renew Certification Authority certificate
 Use -f to ignore an outstanding renewal request, and
  [-f] [-Silent] [-config Machine\CAName]
CertUtil [Options] -schema [Ext | Attrib | CRL]
Dump Certificate Schema
 Defaults to Request and Certificate table
  Ext -- Extension table
 Attrib -- Attribute table
 CRL -- CRL table
  [-split] [-config Machine\CAName]
CertUtil [Options] -view [Queue | Log | LogFail | Revo
Dump Certificate View
  Queue -- Request queue
  Log -- Issued or revoked certificates, plus failed r
  LogFail -- Failed requests
  Revoked -- Revoked certificates
  Ext -- Extension table
 Attrib -- Attribute table
 CRL -- CRL table
 csv -- Output as Comma Separated Values
 To display the StatusCode column for all entries:
      -out StatusCode
  To display all columns for the last entry:
      -restrict "RequestId==$"
  To display RequestId and Disposition for three reque
      -restrict "RequestId>=37, RequestId<40" -out "Req
 To display Row Ids and CRL Numbers for all Base CRLs
      -restrict "CRLMinBase=0" -out "CRLRowId,CRLNumbe
 To display Base CRL Number 3:
      -v -restrict "CRLMinBase=0,CRLNumber=3" -out "CR
  To display the entire CRL table:
     CRL
 Use "Date[+|-dd:hh]" for date restrictions
 Use "now+dd:hh" for a date relative to the current t
  [-Silent] [-split] [-config Machine\CAName] [-restri
CertUtil [Options] -db
Dump Raw Database
  [-config Machine\CAName] [-restrict RestrictionList]
CertUtil [Options] -deleterow RowId | Date [Request |
Delete server database row
  Request -- Failed and pending requests (submission d
 Cert -- Expired and revoked certificates (expiration
  Ext -- Extension table
 Attrib -- Attribute table
 CRL -- CRL table (expiration date)
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To delete failed and pending requests submitted by J
      1/22/2001 Request
  To delete all certificates that expired by January 2
      1/22/2001 Cert
 To delete the certificate row, attributes and extens
  To delete CRLs that expired by January 22, 2001:
      1/22/2001 CRL
  [-f] [-config Machine\CAName]
CertUtil [Options] -backup BackupDirectory [Incrementa
Backup Active Directory Certificate Services
  BackupDirectory -- directory to store backed up data
  Incremental -- perform incremental backup only (defa
  KeepLog -- preserve database log files (default is t
  [-f] [-config Machine\CAName] [-p Password] [-Protec
CertUtil [Options] -backupDB BackupDirectory [Incremen
Backup Active Directory Certificate Services database
  BackupDirectory -- directory to store backed up data
  Incremental -- perform incremental backup only (defa
  KeepLog -- preserve database log files (default is t
  [-f] [-config Machine\CAName]
CertUtil [Options] -backupKey BackupDirectory
Backup Active Directory Certificate Services certifica
  BackupDirectory -- directory to store backed up PFX
  [-f] [-config Machine\CAName] [-p Password] [-Protec
CertUtil [Options] -restore BackupDirectory
Restore Active Directory Certificate Services
  BackupDirectory -- directory containing data to be r
  [-f] [-config Machine\CAName] [-p Password]
CertUtil [Options] -restoreDB BackupDirectory
Restore Active Directory Certificate Services database
  BackupDirectory -- directory containing database fil
  [-f] [-config Machine\CAName]
CertUtil [Options] -restoreKey BackupDirectory | PFXFi
Restore Active Directory Certificate Services certific
  BackupDirectory -- directory containing PFX file to
  PFXFile -- PFX file to be restored
  [-f] [-config Machine\CAName] [-p Password]
CertUtil [Options] -importPFX [CertificateStoreName] P
Import certificate and private key
 CertificateStoreName -- Certificate store name. See
  PFXFile -- PFX file to be imported
 Modifiers -- Comma separated list of one or more of
          AT_SIGNATURE -- Change the KeySpec to Signat
          AT_KEYEXCHANGE -- Change the KeySpec to Key
          NoExport -- Make the private key non-exporta
```

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NoCert -- Do not import the certificate
          NoChain -- Do not import the certificate cha
          NoRoot -- Do not import the root certificate
          Protect -- Protect keys with password
          NoProtect -- Do not password protect keys
  Defaults to personal machine store.
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-Silent]
  Modifiers:
    NoExport
    ExportEncrypted
    NoCert
    NoChain -- End Entity certificate only
    NoRoot -- Exclude root certificate
    NoProtect
    Protect
    ProtectHigh
    Pkcs8
    AT_SIGNATURE
    AT_KEYEXCHANGE
    FriendlyName=
    KeyFriendlyName=
    KeyDescription=
    VSM
CertUtil [Options] -dynamicfilelist
Display dynamic file List
  [-config Machine\CAName]
CertUtil [Options] -databaselocations
Display database locations
  [-config Machine\CAName]
CertUtil [Options] -hashfile InFile [HashAlgorithm]
Generate and display cryptographic hash over a file
CertUtil [Options] -store [CertificateStoreName [CertI
Dump certificate store
  CertificateStoreName -- Certificate store name. Exa
          "My", "CA" (default), "Root",
          "ldap:///CN=Certification Authorities,CN=Pub
          "ldap:///CN=CAName,CN=Certification Authorit
          "ldap:///CN=CAName,CN=MachineName,CN=CDP,CN=
          "ldap:///CN=NTAuthCertificates,CN=Public Key
          ldap: (AD machine object certificates)
          -user ldap: (AD user object certificates)
  CertId -- Certificate or CRL match token. This can
          an SHA-1 certificate, CRL, CTL or public key
          a numeric cert index (0, 1, etc.),
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a numeric CRL index (.0, .1, etc.),
          a numeric CTL index (..0, ..1, etc.),
          a public key, signature or extension ObjectI
          a certificate subject Common Name,
          an e-mail address, UPN or DNS name,
          a key container name or CSP name,
          a template name or ObjectId,
          an EKU or Application Policies ObjectId,
          or a CRL issuer Common Name.
          Many of the above may result in multiple mat
 OutputFile -- file to save matching cert
 Use -user to access a user store instead of a machin
 Use -enterprise to access a machine enterprise store
 Use -service to access a machine service store.
 Use -grouppolicy to access a machine group policy st
  Examples:
  -enterprise NTAuth
  -enterprise Root 37
  -user My 26e0aaaf000000000004
 CA .11
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-Silent]
CertUtil [Options] -enumstore [\\MachineName]
Enumerate certificate stores
 MachineName -- remote machine name.
  [-Enterprise] [-user] [-GroupPolicy]
CertUtil [Options] -addstore CertificateStoreName InFi
Add certificate to store
 CertificateStoreName -- Certificate store name. See
 InFile -- Certificate or CRL file to add to store.
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-dc DCNam
 Modifiers:
   Certs
    CRLs
    CTLs
    Root
    NoRoot
CertUtil [Options] -delstore CertificateStoreName Cert
Delete certificate from store
 CertificateStoreName -- Certificate store name. See
 CertId -- Certificate or CRL match token. See -stor
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-Silent]
CertUtil [Options] -verifystore CertificateStoreName [
Verify certificate in store
 CertificateStoreName -- Certificate store name. See
 CertId -- Certificate or CRL match token. See -stor
  [-Enterprise] [-user] [-GroupPolicy] [-Silent] [-spl
CertUtil [Options] -repairstore CertificateStoreName C
```

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Repair key association or update certificate propertie
  CertificateStoreName -- Certificate store name. See
  CertIdList -- comma separated list of Certificate or
          See -store's CertId description.
  PropertyInfFile -- INF file containing external prop
          [Properties]
          19 = Empty ; Add archived property, OR:
                    ; Remove archived property
          11 = "{text}Friendly Name" ; Add friendly na
          127 = "{hex}"; Add custom hexadecimal prope
            _continue_ = "00 01 02 03 04 05 06 07 08 0
            _continue_ = "10 11 12 13 14 15 16 17 18 1
          2 = "{text}" ; Add Key Provider Information
            continue = "Container=Container Name&"
            _continue_ = "Provider=Microsoft Strong Cr
            _continue_ = "ProviderType=1&"
            _continue_ = "Flags=0&"
            _continue_ = "KeySpec=2"
          9 = "{text}"; Add Enhanced Key Usage proper
            _continue_ = "1.3.6.1.5.5.7.3.2,"
            _continue_ = "1.3.6.1.5.5.7.3.1,"
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-Silent]
CertUtil [Options] -viewstore [CertificateStoreName [C
Dump certificate store
 CertificateStoreName -- Certificate store name. Exa
          "My", "CA" (default), "Root",
          "ldap:///CN=Certification Authorities,CN=Pub
          "ldap:///CN=CAName,CN=Certification Authorit
          "ldap:///CN=CAName, CN=MachineName, CN=CDP, CN=
          "ldap:///CN=NTAuthCertificates,CN=Public Key
          ldap: (AD machine object certificates)
          -user ldap: (AD user object certificates)
 CertId -- Certificate or CRL match token. This can
          an SHA-1 certificate, CRL, CTL or public key
          a numeric cert index (0, 1, etc.),
          a numeric CRL index (.0, .1, etc.),
          a numeric CTL index (..0, ..1, etc.),
          a public key, signature or extension ObjectI
          a certificate subject Common Name,
          an e-mail address, UPN or DNS name,
          a key container name or CSP name,
          a template name or ObjectId,
          an EKU or Application Policies ObjectId,
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or a CRL issuer Common Name.
          Many of the above may result in multiple mat
 OutputFile -- file to save matching cert
 Use -user to access a user store instead of a machin
 Use -enterprise to access a machine enterprise store
 Use -service to access a machine service store.
 Use -grouppolicy to access a machine group policy st
  Examples:
  -enterprise NTAuth
  -enterprise Root 37
  -user My 26e0aaaf000000000004
 CA .11
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-dc DCNam
CertUtil [Options] -viewdelstore [CertificateStoreName
Delete certificate from store
  CertificateStoreName -- Certificate store name. Exa
          "My", "CA" (default), "Root",
          "ldap:///CN=Certification Authorities,CN=Pub
          "ldap:///CN=CAName,CN=Certification Authorit
          "ldap:///CN=CAName, CN=MachineName, CN=CDP, CN=
          "ldap:///CN=NTAuthCertificates,CN=Public Key
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          an SHA-1 certificate, CRL, CTL or public key
          a numeric cert index (0, 1, etc.),
          a numeric CRL index (.0, .1, etc.),
          a numeric CTL index (..0, ..1, etc.),
          a public key, signature or extension ObjectI
          a certificate subject Common Name,
          an e-mail address, UPN or DNS name,
          a key container name or CSP name,
          a template name or ObjectId,
          an EKU or Application Policies ObjectId,
          or a CRL issuer Common Name.
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 Use -enterprise to access a machine enterprise store
 Use -service to access a machine service store.
 Use -grouppolicy to access a machine group policy st
  Examples:
  -enterprise NTAuth
  -enterprise Root 37
  -user My 26e0aaaf000000000004
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CA .11
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-dc DCNam
CertUtil [Options] -UI File [import]
invoke CryptUI
CertUtil [Options] -attest RequestFile
Verify Key Attestation Request
  [-user] [-Silent] [-split]
CertUtil [Options] -dsPublish CertFile [NTAuthCA | Roc
CertUtil [Options] -dsPublish CRLFile [DSCDPContainer
Publish certificate or CRL to Active Directory
  CertFile -- certificate file to publish
  NTAuthCA -- Publish cert to DS Enterprise store
  RootCA -- Publish cert to DS Trusted Root store
  SubCA -- Publish CA cert to DS CA object
  CrossCA -- Publish cross cert to DS CA object
  KRA -- Publish cert to DS Key Recovery Agent object
  User -- Publish cert to User DS object
  Machine -- Publish cert to Machine DS object
  CRLFile -- CRL file to publish
  DSCDPContainer -- DS CDP container CN, usually the C
  DSCDPCN -- DS CDP object CN, usually based on the sa
  Use -f to create DS object.
  [-f] [-user] [-dc DCName]
CertUtil [Options] -ADTemplate [Template]
Display AD templates
  [-f] [-user] [-ut] [-mt] [-dc DCName]
CertUtil [Options] -Template [Template]
Display Enrollment Policy templates
  [-f] [-user] [-Silent] [-PolicyServer URLOrId] [-And
CertUtil [Options] -TemplateCAs Template
Display CAs for template
  [-f] [-user] [-dc DCName]
CertUtil [Options] -CATemplates [Template]
Display templates for CA
  [-f] [-user] [-ut] [-mt] [-config Machine\CAName] [-
CertUtil [Options] -SetCASites [set] [SiteName]
CertUtil [Options] -SetCASites verify [SiteName]
CertUtil [Options] -SetCASites delete
Manage Site Names for CAs
  Set, Verify or Delete CA site names
          Use the -config option to target a single CA
          SiteName is allowed only when targeting a si
          Use -f to override validation errors for the
          Use -f to delete all CA site names
  [-f] [-config Machine\CAName] [-dc DCName]
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CertUtil [Options] -enrollmentServerURL [URL Authentic
CertUtil [Options] -enrollmentServerURL URL delete
Display, add or delete enrollment server URLs associat
  AuthenticationType -- Specify one of the following c
          Kerberos -- Use Kerberos SSL credentials
          UserName -- Use named account for SSL creden
          ClientCertificate -- Use X.509 Certificate S
          Anonymous -- Use anonymous SSL credentials.
  delete -- deletes the specified URL associated with
  Priority -- defaults to '1' if not specified when ad
 Modifiers -- Comma separated list of one or more of
          AllowRenewalsOnly -- Only renewal requests c
                 CA via this URL
          AllowKeyBasedRenewal -- Allows use of a cert
                 associated account in the AD. This ap
                 ClientCertificate and AllowRenewalsOn
  [-config Machine\CAName] [-dc DCName]
CertUtil [Options] -ADCA [CAName]
Display AD CAs
  [-f] [-split] [-dc DCName]
CertUtil [Options] -CA [CAName | TemplateName]
Display Enrollment Policy CAs
  [-f] [-user] [-Silent] [-split] [-PolicyServer URLOr
CertUtil [Options] -Policy
Display Enrollment Policy
  [-f] [-user] [-Silent] [-split] [-PolicyServer URLOr
CertUtil [Options] -PolicyCache [delete]
Display or delete Enrollment Policy Cache entries
 delete -- delete Policy Server cache entries
  -f -- use -f to delete all cache entries.
  [-f] [-user] [-PolicyServer URLOrId]
CertUtil [Options] -CredStore [URL]
CertUtil [Options] -CredStore URL add
CertUtil [Options] -CredStore URL delete
Display, add or delete Credential Store entries
 URL -- target URL. Use * to match all entries
         Use https://machine* to match a URL prefix
  add -- add a Credential Store entry
         SSL credentials must also be specified
 delete -- delete Credential Store entries
  -f -- use -f to overwrite an entry or to delete mult
  [-f] [-user] [-Silent] [-Anonymous] [-Kerberos] [-Cl
CertUtil [Options] -InstallDefaultTemplates
Install default certificate templates
  [-dc DCName]
```

```
CertUtil [Options] -URLCache [URL | CRL | * [delete]]
Display or delete URL cache entries
  URL -- cached URL
  CRL -- operate on all cached CRL URLs only
  * -- operate on all cached URLs
  delete -- delete relevant URLs from the current user
  Use -f to force fetching a specific URL and updating
  [-f] [-split]
CertUtil [Options] -pulse [TaskName [SRKThumbprint]]
Pulse autoenrollment event or NGC task
  TaskName -- task to trigger
          Pregen -- NGC Key Pregen task
          AIKEnroll -- NGC AIK certificate enrollment
          defaults to autoenrollment event.
  SRKThumbprint -- Thumprint of Storage Root Key
  [-user]
  Modifiers:
    Pregen
    PregenDelay
    AIKEnroll
    CryptoPolicy
    NgcPregenKey
    DIMSRoam
CertUtil [Options] -MachineInfo DomainName\MachineName
Display Active Directory machine object information
CertUtil [Options] -DCInfo [Domain] [Verify | DeleteBa
Display domain controller information
  Default is to display DC certificates without verifi
  [-f] [-user] [-urlfetch] [-dc DCName] [-t Timeout]
  Modifiers:
    Verify
    DeleteBad
    DeleteAll
CertUtil [Options] -EntInfo DomainName\MachineName$
Display enterprise information
  [-f] [-user]
CertUtil [Options] -TCAInfo [DomainDN | -]
Display CA information
  [-f] [-Enterprise] [-user] [-urlfetch] [-dc DCName]
CertUtil [Options] -SCInfo [ReaderName [CRYPT_DELETEKE
Display smart card information
  CRYPT DELETEKEYSET -- Delete all keys on the smart c
  [-Silent] [-split] [-urlfetch] [-t Timeout]
CertUtil [Options] -SCRoots update [+][InputRootFile]
CertUtil [Options] -SCRoots save @OutputRootFile [Read
CertUtil [Options] -SCRoots view [InputRootFile | Read
```

```
CertUtil [Options] -SCRoots delete [ReaderName]
Manage smart card root certificates
  [-f] [-split] [-p Password]
CertUtil [Options] -verifykeys [KeyContainerName CACer
Verify public/private key set
  KeyContainerName -- key container name of the key to
          Defaults to machine keys. Use -user for use
  CACertFile -- signing or encryption certificate file
  If no arguments are specified, each signing CA cert
          private key.
  This operation can only be performed against a local
  [-f] [-user] [-Silent] [-config Machine\CAName]
CertUtil [Options] -verify CertFile [ApplicationPolicy
CertUtil [Options] -verify CertFile [CACertFile [Cross
CertUtil [Options] -verify CRLFile CACertFile [IssuedC
CertUtil [Options] -verify CRLFile CACertFile [DeltaCR
Verify certificate, CRL or chain
  CertFile -- Certificate to verify
  ApplicationPolicyList -- optional comma separated li
          Application Policy ObjectIds
  IssuancePolicyList -- optional comma separated list
          Policy ObjectIds
  CACertFile -- optional issuing CA certificate to ver
  CrossedCACertFile -- optional certificate cross-cert
  CRLFile -- CRL to verify
  IssuedCertFile -- optional issued certificate covere
  DeltaCRLFile -- optional delta CRL
  If ApplicationPolicyList is specified, chain buildin
          chains valid for the specified Application P
  If IssuancePolicyList is specified, chain building i
          valid for the specified Issuance Policies.
  If CACertFile is specified, fields in CACertFile are
          CertFile or CRLFile.
  If CACertFile is not specified, CertFile is used to
          chain.
  If CACertFile and CrossedCACertFile are both specifi
          CACertFile and CrossedCACertFile are verifie
  If IssuedCertFile is specified, fields in IssuedCert
          against CRLFile.
  If DeltaCRLFile is specified, fields in DeltaCRLFile
  [-f] [-Enterprise] [-user] [-Silent] [-split] [-urlf
  Modifiers:
    Strong -- Strong signature verification
    MSRoot -- Must chain to a Microsoft root
    MSTestRoot -- Must chain to a Microsoft test root
```

```
AppRoot -- Must chain to a Microsoft application r
    EV -- Enforce Extended Validation Policy
CertUtil [Options] -verifyCTL CTLObject [CertDir] [Cer
Verify AuthRoot or Disallowed Certificates CTL
  CTLObject -- Identifies the CTL to verify:
       AuthRootWU -- read AuthRoot CAB and matching ce
           cache. Use -f to download from Windows Upd
      DisallowedWU -- read Disallowed Certificates CA
           certificate store file from the URL cache.
           from Windows Update instead.
       PinRulesWU -- read PinRules CAB from the URL ca
           from Windows Update instead.
      AuthRoot -- read registry cached AuthRoot CTL.
           CertFile that is not already trusted to for
           registry cached AuthRoot and Disallowed Cer
      Disallowed -- read registry cached Disallowed C
           -f has the same behavior as with AuthRoot.
       PinRules -- read registry cached PinRules CTL.
           -f has the same behavior as with PinRulesWU
       CTLFileName -- file or http: path to CTL or CAB
  CertDir -- folder containing certificates matching C
      An http: folder path must end with a path separ
       If a folder is not specified with AuthRoot or D
       locations will be searched for matching certifi
       certificate stores, crypt32.dll resources and t
      Use -f to download from Windows Update when nec
       Otherwise defaults to the same folder or web si
 CertFile -- file containing certificate(s) to verify
       will be matched against CTL entries, and match
       Suppresses most of the default output.
  [-f] [-user] [-split]
CertUtil [Options] -syncWithWU DestinationDir
Sync with Windows Update
 DestinationDir -- folder to copy to.
       The following files are downloaded from Windows
           authrootstl.cab - contains CTL of Third Par
           disallowedcertstl.cab - contains CTL of Dis
           disallowedcert.sst - Disallowed Certificate
           pinrulesstl.cab - contains CTL of SSL Pin R
           pinrules.sst - Pin Rules Certificates.
           <thumbprint>.crt - Third Party Roots.
  [-f]
```

```
CertUtil [Options] -generateSSTFromWU SSTFile
Generate SST from Windows Update
  SSTFile -- .sst file to be created.
       The generated .sst file contains the Third Part
       downloaded from Windows Update.
  [-f] [-split]
CertUtil [Options] -generatePinRulesCTL XMLFile CTLFil
Generate Pin Rules CTL
 XMLFile -- input XML file to be parsed.
 CTLFile -- output CTL file to be generated.
 SSTFile -- optional .sst file to be created.
       The .sst file contains all of the certificates
       used for pinning.
  QueryFilesPrefix -- optional Domains.csv and Keys.cs
       The QueryFilesPrefix string is prepended to eac
       The Domains.csv file contains rule name, domain
      The Keys.csv file contains rule name, key SHA25
  [-f]
CertUtil [Options] -downloadOcsp CertificateDir OcspDi
Download OCSP Responses and Write to Directory
  CertificateDir -- directory of certificate, store an
               -- directory to write OCSP responses.
 OcspDir
 ThreadCount -- optional maximum number of threads
 Modifiers -- Comma separated list of one or more of
          DownloadOnce -- Download once and exit
          ReadOcsp -- Read from OcspDir instead of wri
  By default, certutil won't exit and must be explicit
 Modifiers:
    DownloadOnce
    ReadOcsp
CertUtil [Options] -generateHpkpHeader CertFileOrDir M
Generate HPKP header using certificates in specified f
  CertFileOrDir -- file or directory of certificates.
 MaxAge
                -- max-age value in seconds.
  ReportUri
                 -- optional report-uri.
 Modifiers -- Comma separated list of one or more of
          includeSubDomains -- append includeSubDomain
 Modifiers:
    includeSubDomains
CertUtil [Options] -flushCache ProcessId CacheMask [Mc
Flush specified caches in selected process, such as, 1
  ProcessId -- numeric id of process to flush. Set to
 CacheMask -- bit mask of caches to be flushed. Numer
          0x01: CERT WNF FLUSH CACHE REVOCATION
          0x02: CERT_WNF_FLUSH_CACHE_OFFLINE_URL
          0x04: CERT_WNF_FLUSH_CACHE_MACHINE_CHAIN_ENG
          0x08: CERT WNF FLUSH CACHE USER CHAIN ENGINE
          0x10: CERT_WNF_FLUSH_CACHE_SERIAL_CHAIN_CERT
          0x20: CERT_WNF_FLUSH_CACHE_SSL_TIME_CERTS
```

```
0x40: CERT_WNF_FLUSH_CACHE_OCSP_STAPLING
             0: ShowOnly
  Modifiers -- Comma separated list of one or more of
          Show - Show caches being flushed. Certutil m
  Modifiers:
    Show
CertUtil [Options] -addEccCurve [CurveClass:]CurveName
Add ECC Curve
    CurveClass:
                      -- ECC Curve Class Type:
                           - WEIERSTRASS [Default]
                           - MONTGOMERY
                           - TWISTED EDWARDS
    CurveName
                      -- ECC Curve Name
    CurveParameters -- ECC Curve Parameters. It is o
                           - Certificate Filename Cont
                           - File Containing ASN Encod
    CurveOID
                      -- ECC Curve OID. It is one of t
                           - Certificate Filename Cont
                           - Explicit ECC Curve OID
                     -- Schannel ECC NamedCurve Point
    CurveType
  [-f]
CertUtil [Options] -deleteEccCurve CurveName | CurveOI
Delete ECC Curve
  CurveName -- ECC Curve Name
  CurveOID -- ECC Curve OID
  [-f]
CertUtil [Options] -displayEccCurve [CurveName | Curve
Display ECC Curve
  CurveName -- ECC Curve name
  CurveOID -- ECC Curve OID
  [-f]
CertUtil [Options] -sign InFileList|SerialNumber|CRL C
CertUtil [Options] -sign InFileList|SerialNumber|CRL C
CertUtil [Options] -sign InFileList OutFileList [Subje
Re-sign CRL or certificate
  InFileList -- comma separated list of Certificate or
           and re-sign
  SerialNumber -- Serial number of certificate to crea
           Validity period and other options must not
  CRL -- Create an empty CRL
           Validity period and other options must not
  OutFileList -- comma separated list of modified Cert
           files. The number of files must match InFi
  StartDate[+|-dd:hh]+|-dd:hh -- new validity period:
```

```
optional days and hours start date offset a
           days and hours validity period
           If multiple fields are used, use a (+) or (
          Use "now[+dd:hh]" to start at the current t
          Use "now-dd:hh+dd:hh" to start at a fixed o
          time and a fixed validity period
          Use "never" to have no expiration date (for
  SerialNumberList -- comma separated serial number li
  ObjectIdList -- comma separated extension ObjectId 1
  @ExtensionFile -- INF file containing extensions to
          [Extensions]
          2.5.29.31 = ; Remove CRL Distribution Points
          2.5.29.15 = "{hex}"; Update Key Usage exten
          _continue_="03 02 01 86"
 HashAlgorithm -- Name of the hash algorithm preceded
 AlternateSignatureAlgorithm -- alternate Signature a
  A minus sign causes serial numbers and extensions to
  A plus sign causes serial numbers to be added to a C
 When removing items from a CRL, the list may contain
  and ObjectIds.
 A minus sign before AlternateSignatureAlgorithm caus
  A plus sign before AlternateSignatureAlgorithm cause
  If AlternateSignatureAlgorithm is not specifed then
  [-nullsign] [-f] [-user] [-Silent] [-Cert CertId] [-
CertUtil [Options] -vroot [delete]
Create/delete web virtual roots and file shares
CertUtil [Options] -vocsproot [delete]
Create/delete web virtual roots for OCSP web proxy
CertUtil [Options] -addEnrollmentServer Kerberos | Use
Add an Enrollment Server application
 Add an Enrollment Server application and application
 for the specified CA. This command does not install
 One of the following authentication methods with whi
 to a Certificate Enrollment Server
          Kerberos -- Use Kerberos SSL credentials
          UserName -- Use named account for SSL creden
          ClientCertificate -- Use X.509 Certificate S
          AllowRenewalsOnly -- Only renewal requests c
                               CA via this URL
          AllowKeyBasedRenewal -- Allows use of a cert
                            associated account in the
                            with ClientCertificate and
  [-config Machine\CAName]
 Modifiers:
    AllowRenewalsOnly
    AllowKeyBasedRenewal
```

CertUtil [Options] -deleteEnrollmentServer Kerberos |

```
Delete an Enrollment Server application
 Delete an Enrollment Server application and applicat
 for the specified CA. This command does not remove b
 One of the following authentication methods with whi
  to a Certificate Enrollment Server
          Kerberos -- Use Kerberos SSL credentials
          UserName -- Use named account for SSL creden
          ClientCertificate -- Use X.509 Certificate S
  [-config Machine\CAName]
CertUtil [Options] -addPolicyServer Kerberos | UserNam
Add a Policy Server application
 Add a Policy Server application and application pool
  does not install binaries or packages
 One of the following authentication methods with whi
 to a Certificate Policy Server
          Kerberos -- Use Kerberos SSL credentials
          UserName -- Use named account for SSL creden
          ClientCertificate -- Use X.509 Certificate S
          KeyBasedRenewal -- Only policies that contai
                            templates are returned to
                            applies only for UserName
                            authentication.
CertUtil [Options] -deletePolicyServer Kerberos | User
Delete a Policy Server application
 Delete a Policy Server application and application p
  command does not remove binaries or packages
 One of the following authentication methods with whi
 to a Certificate Policy Server
          Kerberos -- Use Kerberos SSL credentials
          UserName -- Use named account for SSL creden
          ClientCertificate -- Use X.509 Certificate S
          KeyBasedRenewal -- KeyBasedRenewal policy se
CertUtil [Options] -oid ObjectId [DisplayName | delete
CertUtil [Options] -oid GroupId
CertUtil [Options] -oid AlgId | AlgorithmName [GroupId
Display ObjectId or set display name
  ObjectId -- ObjectId to display or to add display na
 GroupId -- decimal GroupId number for ObjectIds to e
 AlgId -- hexadecimal AlgId for ObjectId to look up
 AlgorithmName -- Algorithm Name for ObjectId to look
 DisplayName -- Display Name to store in DS
  delete -- delete display name
  LanguageId -- Language Id (defaults to current: 1033
  Type -- DS object type to create: 1 for Template (de
          2 for Issuance Policy, 3 for Application Pol
 Use -f to create DS object.
  [-f]
CertUtil [Options] -error ErrorCode
Display error code message text
```

```
CertUtil [Options] -getreg [{ca|restore|policy|exit|te
Display registry value
  ca -- Use CA's registry key
  restore -- Use CA's restore registry key
  policy -- Use policy module's registry key
  exit -- Use first exit module's registry key
 template -- Use template registry key (use -user for
  enroll -- Use enrollment registry key (use -user for
  chain -- Use chain configuration registry key
  PolicyServers -- Use Policy Servers registry key
  ProgId -- Use policy or exit module's ProgId (regist
  RegistryValueName -- registry value name (use "Name*
 Value -- new numeric, string or date registry value
      If a numeric value starts with "+" or "-", the b
      in the new value are set or cleared in the exist
      If a string value starts with "+" or "-", and th
      is a REG_MULTI_SZ value, the string is added to
      the existing registry value.
      To force creation of a REG_MULTI_SZ value, add a
      of the string value.
     If the value starts with "@", the rest of the va
     of the file containing the hexadecimal text repr
      of a binary value.
      If it does not refer to a valid file, it is inst
      [Date][+|-][dd:hh] -- an optional date plus or m
      days and hours.
      If both are specified, use a plus sign (+) or mi
      Use "now+dd:hh" for a date relative to the curre
      Use "i64" as a suffix to create a REG_QWORD valu
 Use "chain\ChainCacheResyncFiletime @now" to effecti
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-config M
  Registry Aliases:
    Config
    \mathsf{CA}
    Policy
                   PolicyModules
    Exit
                   ExitModules
    Restore
                   RestoreInProgress
    Template
                   Software\Microsoft\Cryptography\Cer
    Enroll
                   Software\Microsoft\Cryptography\Aut
   MSCEP
                   Software\Microsoft\Cryptography\MSC
                   Software\Microsoft\Cryptography\OID
    Chain
    PolicyServers Software\Microsoft\Cryptography\Pol
    Crypt32
                   System\CurrentControlSet\Services\c
    NGC
                   System\CurrentControlSet\Control\Cr
    AutoUpdate
                   Software\Microsoft\SystemCertificat
                   Software\Policies\Microsoft\Passpor
    Passport
    MDM
                   Software\Microsoft\Policies\Passpor
```

```
CertUtil [Options] -setreg [{ca|restore|policy|exit|te
Set registry value
  ca -- Use CA's registry key
  restore -- Use CA's restore registry key
 policy -- Use policy module's registry key
 exit -- Use first exit module's registry key
 template -- Use template registry key (use -user for
  enroll -- Use enrollment registry key (use -user for
  chain -- Use chain configuration registry key
  PolicyServers -- Use Policy Servers registry key
 ProgId -- Use policy or exit module's ProgId (regist
  RegistryValueName -- registry value name (use "Name*
 Value -- new numeric, string or date registry value
      If a numeric value starts with "+" or "-", the b
      in the new value are set or cleared in the exist
      If a string value starts with "+" or "-", and th
      is a REG_MULTI_SZ value, the string is added to
      the existing registry value.
      To force creation of a REG_MULTI_SZ value, add a
     of the string value.
     If the value starts with "@", the rest of the va
     of the file containing the hexadecimal text repr
      of a binary value.
      If it does not refer to a valid file, it is inst
      [Date][+|-][dd:hh] -- an optional date plus or m
      days and hours.
      If both are specified, use a plus sign (+) or mi
      Use "now+dd:hh" for a date relative to the curre
      Use "i64" as a suffix to create a REG_QWORD valu
 Use "chain\ChainCacheResyncFiletime @now" to effecti
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-config M
CertUtil [Options] -delreg [{ca|restore|policy|exit|te
Delete registry value
  ca -- Use CA's registry key
  restore -- Use CA's restore registry key
  policy -- Use policy module's registry key
 exit -- Use first exit module's registry key
 template -- Use template registry key (use -user for
  enroll -- Use enrollment registry key (use -user for
  chain -- Use chain configuration registry key
  PolicyServers -- Use Policy Servers registry key
  ProgId -- Use policy or exit module's ProgId (regist
  RegistryValueName -- registry value name (use "Name*
 Value -- new numeric, string or date registry value
      If a numeric value starts with "+" or "-", the b
      in the new value are set or cleared in the exist
```

```
If a string value starts with "+" or "-", and th
      is a REG_MULTI_SZ value, the string is added to
      the existing registry value.
      To force creation of a REG_MULTI_SZ value, add a
     of the string value.
     If the value starts with "@", the rest of the va
      of the file containing the hexadecimal text repr
      of a binary value.
      If it does not refer to a valid file, it is inst
      [Date][+|-][dd:hh] -- an optional date plus or m
      days and hours.
      If both are specified, use a plus sign (+) or mi
      Use "now+dd:hh" for a date relative to the curre
      Use "i64" as a suffix to create a REG_QWORD valu
 Use "chain\ChainCacheResyncFiletime @now" to effecti
  [-f] [-Enterprise] [-user] [-GroupPolicy] [-config M
  Registry Aliases:
    Config
    CA
    Policy
                   PolicyModules
                   ExitModules
    Exit
    Restore
                   RestoreInProgress
                   Software\Microsoft\Cryptography\Cer
    Template
    Enroll
                   Software\Microsoft\Cryptography\Aut
    MSCEP
                   Software\Microsoft\Cryptography\MSC
    Chain
                   Software\Microsoft\Cryptography\OID
    PolicyServers Software\Microsoft\Cryptography\Pol
    Crypt32
                   System\CurrentControlSet\Services\c
    NGC
                   System\CurrentControlSet\Control\Cr
    AutoUpdate
                   Software\Microsoft\SystemCertificat
                   Software\Policies\Microsoft\Passpor
    Passport
   MDM
                   Software\Microsoft\Policies\Passpor
CertUtil [Options] -ImportKMS UserKeyAndCertFile [Cert
Import user keys and certificates into server database
 UserKeyAndCertFile -- Data file containing user priv
  certificates to be archived. This can be any of the
          Exchange Key Management Server (KMS) export
          PFX file
 CertId -- KMS export file decryption certificate mat
 Use -f to import certificates not issued by the CA.
  [-f] [-Silent] [-split] [-config Machine\CAName] [-p
CertUtil [Options] -ImportCert Certfile [ExistingRow]
Import a certificate file into the database
 Use ExistingRow to import the certificate in place o
 Use -f to import certificates not issued by the CA.
 The CA may also need to be configured to support for
```

certutil -setreg ca\KRAFlags +KRAF\_ENABLEFOREIG

```
[-f] [-config Machine\CAName]
CertUtil [Options] -GetKey SearchToken [RecoveryBlobOu
CertUtil [Options] -GetKey SearchToken script OutputSc
CertUtil [Options] -GetKey SearchToken retrieve | reco
Retrieve archived private key recovery blob, generate
    or recover archived keys
  script -- generate a script to retrieve and recover
          if multiple matching recovery candidates are
          output file is not specified).
  retrieve -- retrieve one or more Key Recovery Blobs
          exactly one matching recovery candidate is f
          file is specified)
  recover -- retrieve and recover private keys in one
          Recovery Agent certificates and private keys
  SearchToken -- Used to select the keys and certifica
          Can be any of the following:
          Certificate Common Name
          Certificate Serial Number
          Certificate SHA-1 hash (thumbprint)
          Certificate KeyId SHA-1 hash (Subject Key Id
          Requester Name (domain\user)
          UPN (user@domain)
  RecoveryBlobOutFile -- output file containing a cert
          associated private key, still encrypted to c
          Agent certificates.
  OutputScriptFile -- output file containing a batch s
          recover private keys.
  OutputFileBaseName -- output file base name.
          For retrieve, any extension is truncated and
          string and the .rec extension are appended f
          blob. Each file contains a certificate chai
          private key, still encrypted to one or more
          certificates.
          For recover, any extension is truncated and
          appended. Contains the recovered certificat
          private keys, stored as a PFX file.
  [-f] [-UnicodeText] [-Silent] [-config Machine\CANam
CertUtil [Options] -RecoverKey RecoveryBlobInFile [PFX
Recover archived private key
  [-f] [-user] [-Silent] [-split] [-p Password] [-Prot
CertUtil [Options] -MergePFX PFXInFileList PFXOutFile
Merge PFX files
  PFXInFileList -- Comma separated PFX input file list
  PFXOutFile -- PFX output file
  Modifiers -- Comma separated list of one or more of
          ExtendedProperties -- Include extended prope
          NoEncryptCert -- Do not encrypt the certific
          EncryptCert -- Encrypt the certificates
  The password specified on the command line is a comm
  list. If more than one password is specified, the l
```

```
for the output file. If only one password is provid
  password is "*", the user will be prompted for the c
  [-f] [-user] [-split] [-p Password] [-ProtectTo SAMN
CertUtil [Options] -ConvertEPF PFXInFileList EPFOutFil
Convert PFX files to EPF file
  PFXInFileList -- Comma separated PFX input file list
  EPF -- EPF output file
  cast -- Use CAST 64 encryption
  cast- -- Use CAST 64 encryption (export)
  V3CACertId -- V3 CA Certificate match token. See -s
  Salt -- EPF output file salt string
  The password specified on the command line is a comm
  list. If more than one password is specified, the l
  for the output file. If only one password is provid
  password is "*", the user will be prompted for the c
  [-f] [-Silent] [-split] [-dc DCName] [-p Password] [
CertUtil [Options] -add-chain LogId certificate OutFil
Add certificate chain
  [-f]
CertUtil [Options] -add-pre-chain LogId pre-certificat
Add pre-certificate chain
  [-f]
CertUtil [Options] -get-sth [LogId]
Get signed tree head
  [-f]
CertUtil [Options] -get-sth-consistency LogId TreeSize
Get signed tree head changes
  [-f]
CertUtil [Options] -get-proof-by-hash LogId Hash [Tree
Get proof by hash
  [-f]
CertUtil [Options] -get-entries LogId FirstIndex LastI
Get entries
  [-f]
CertUtil [Options] -get-roots LogId
Get roots
  [-f]
CertUtil [Options] -get-entry-and-proof LogId Index [T
Get entry and proof
  [-f]
CertUtil [Options] -VerifyCT Certificate SCT [precert]
Verify certificate SCT
  [-f]
```

```
CertUtil [Options] -?
  Display this usage message
Options:
  -nullsign
                    -- Use hash of data as signature
                    -- Force overwrite
  -Enterprise
                   -- (-ent) Use local machine Enterpri
                    -- Use HKEY_CURRENT_USER keys or cer
  -GroupPolicy
                   -- (-gp) Use Group Policy certificat
  -ut
                    -- Display user templates
  -mt
                   -- Display machine templates
  -Unicode
                   -- Write redirected output in Unicod
                   -- Write output file in Unicode
  -UnicodeText
                   -- Display times as GMT
  -gmt
  -seconds
                   -- Display times with seconds and mi
  -Silent
                   -- (-q) Use silent flag to acquire c
  -split
                   -- Split embedded ASN.1 elements, an
                   -- Verbose operation
  -privatekey
                   -- Display password and private key
                           -- Smart Card PIN
  -pin PIN
                    -- Retrieve and verify AIA Certs and
  -urlfetch
  -config Machine\CAName -- CA and Machine name strin
  -PolicyServer URLOrId
                           -- Policy Server URL or Id
    For selection U/I, use -PolicyServer -
    For all Policy Servers, use -PolicyServer *
                   -- Use anonymous SSL credentials
  -Anonymous
  -Kerberos
                   -- Use Kerberos SSL credentials
  -ClientCertificate ClientCertId -- Use X.509 Certifica
    For selection U/I, use -ClientCertificate -
  -UserName UserName
                           -- Use named account for SSL
    For selection U/I, use -UserName -
  -Cert CertId
                            -- Signing certificate
  -dc DCName
                            -- Target a specific Domain
  -restrict RestrictionList -- Comma separated Restricti
     Each restriction consists of a column name, a relat
     a constant integer, string or date. One column name
     by a plus or minus sign to indicate the sort order.
     Examples:
        "RequestId = 47"
        "+RequesterName >= a, RequesterName < b"
        "-RequesterName > DOMAIN, Disposition = 21"
  -out ColumnList
                           -- Comma separated Column Li
  -p Password
                            -- Password
  -ProtectTo SAMNameAndSIDList -- Comma separated SAM Na
  -csp Provider
                           -- Provider
        KSP -- "Microsoft Software Key Storage Provider"
        TPM -- "Microsoft Platform Crypto Provider"
        NGC -- "Microsoft Passport Key Storage Provider"
        SC -- "Microsoft Smart Card Key Storage Provider
  -Location AlternateStorageLocation -- (-loc) Alternate
        AIK -- "C:\ProgramData\Microsoft\Crypto\PCPKSP\W
                            -- URL fetch timeout in mill
  -t Timeout
```

```
-symkeyalg SymmetricKeyAlgorithm[,KeyLength] -- Name c
            -sid WELL_KNOWN_SID_TYPE -- Numeric SID
                      22 -- Local System
                      23 -- Local Service
                      24 -- Network Service
            -sslpolicy ServerName -- SSL Policy matching Serve
          Hash algorithms: MD2 MD4 MD5 SHA1 SHA256 SHA384 SHA512
          CertUtil -?
                                  -- Display a verb list (command
          CertUtil -dump -?
                                  -- Display help text for the "d
          CertUtil -v -?
                                  -- Display all help text for al
          CertUtil: -? command completed successfully.
        = 1
        nuts7 commented on Oct 11, 2023
       Hi, #337 🙄
       wietze linked a pull request on Oct 19, 2023 that will close
           this issue
           Add NTLM auth coerce technique
                                                            ! I Closed
           (certutil.exe) #337
            wietze closed this as completed 30 days ago
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