

NCache Command Line Tools Guide

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1 Introduction to Command Line Tools

NCache provides multiple command line tools; using these you can automate different tasks, like cache creation, deletion, addition of client nodes and server nodes, configuring caches for different features e.g. Object Query Indexing, Compact Serialization, ReadThru and WriteThru etc.

1.1 Create Cache (createcache.exe)

Create cache tool (createcache) enables the user to create a new cache on one or more server nodes using this command line utility.

At the command prompt, type the following:

```
createcache [ cache-name ][ /s | /S | /T ] [ options ]

[ cache-name ] [ /s server /S cache-size ]
[ cache-name ] [ /s server /S cache-size /T path ]
[ cache-name ] [ /s server /S cache-size /t topology /C cluster-port ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which cache will be registered.
/s /server	Specifies the NCache server names/IPs where Cache should be configured, separated by commas e.g. 20.200.21.11,20.200.21.12
For Simple Case: Cache will be created by input and default configuration settings.	
/S cache-size	Specifies the size (MB) of the cache to be created.
For Advance Case: In this case all configurations related settings will be taken from specified configuration file.	
/I /inproc	Specify the isolation level for local cache.
/T path	Specifies the path of the cache source config which will be configured.
/t /topology	For topology other than local you have to give topology and cluster port. Specifies the topology in case of clustered cache. Possible values are I. local II. mirrored III. replicated IV. partitioned V. partitioned-replica

	<u>NOTE: Mirrored and partitioned-replica are only available in Enterprise edition.</u>
/C /cluster-port	Specifies the port of the server, at which server listens.

Option	Description
For Simple case:	
/y /evict-policy	<p>Specifies the eviction policy for cache items. Cached items will be cleaned from the cache according to the specified policy if the cache reaches its limit. Possible values are</p> <ul style="list-style-type: none"> i. Priority ii. LFU iii. LRU (default) <p><u>NOTE: LFU and LRU are only available in Enterprise edition.</u></p>
/o /ratio	<p>Specifies the eviction ratio (Percentage) for cache items. Cached items will be cleaned from the cache according to the specified ratio if the cache reaches its limit.</p> <p>Default value is 5 (percent)</p>
/i /interval	<p>Specifies the time interval (seconds) after which cache cleanup is called. Default clean-interval is 15 (seconds)</p>
/R /replication-strategy	<p>Only in case of 'partition-replicas-server' being the topology, this specifies the replication strategy</p> <ul style="list-style-type: none"> i. Async (default) ii. Sync <p><u>NOTE: This option is only available in Enterprise edition.</u></p>
/d /def-priority	<p>Specifies the default priority in case of priority based eviction policy is selected.</p> <p>Possible values are</p> <ul style="list-style-type: none"> i. high ii. above-normal iii. normal (default) iv. below-normal v. low
For Both cases:	
/p /port	Specifies the port on which NCache server is listening.
/G /nologo	Suppresses display of the logo banner

/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/?	Displays a detailed help screen

Remarks

This tool performs the following basic functions:

1. Creates a local cache with minimum arguments of cache name, server and size.
2. Creates a clustered cache with cache-name, size, server, topology and cluster-port.
3. Creates cache with specified eviction settings.

Examples

The following command creates new cache named demoCache on server 20.200.21.11 having size 1024 MB and topology local for simple case.

```
createcache demoCache /s 20.200.21.11 /S 1024
```

The following command creates a local cache named demoCache of size 1024 MB on server 20.200.21.11, with the configuration that exists on the specified path.

```
createcache demoCache /s 20.200.21.11 /S 1024 /T C:\Config.xml
```

The following command creates new cache named demoCache on server 20.200.21.11 having size 1024 MB and topology replicated and occupying the port 8701 for simple case.

```
createcache demoCache /s 20.200.21.11 /S 1024 /t replicated /C 8701
```

The following command creates new cache named demoCache on server 20.200.21.11 having size 1024 MB, topology partitioned, eviction policy priority, default priority high, eviction ratio 10%, clean interval 20, occupying cluster port 8701 while specifying security credentials for simple case.

```
createcache demoCache /s 20.200.21.11 /S 1024 /t partitioned /y priority /d  
high /o 10 /i 20 /C 8701 /U david_watson /P *****
```

Following is a sample cache configuration that can be used to create a cache of same configuration. To create your own caches with this configuration just copy this configuration in a file and save it with .xml or .nconf file extension. You can also get the configuration of sample caches shipped with NCache setup using getcacheconfiguration tool which gives you configuration of the specified cache.

```
<cache-config config-id="0">
  <cache-settings cache-name="myReplicatedCache" alias=""
    inproc="False" last-modified=""
    auto-start="False">
    <logging enable-logs="True" trace-errors="True"
      trace-notices="False" trace-warnings="False"
      trace-debug="False" log-path=""/>
    <performance-counters enable-counters="True" snmp-port="0"/>
    <compression enable-compression="False" threshold="100kb"/>
    <cache-notifications item-remove="False" item-add="False" item-update="False"/>
    <cleanup interval="15sec"/>
    <storage type="heap" cache-size="1024mb"/>
    <eviction-policy enabled-eviction="False" default-priority="normal"
      policy="lru" eviction-ratio="5%"/>
    <cache-topology topology="replicated">
      <cluster-settings operation-timeout="60sec" stats-repl-interval="600sec"
        use-heart-beat="False">
        <data-replication synchronous="True"/>
        <cluster-connection-settings cluster-port="8700" port-range="1"
          connection-retries="2"
          connection-retry-interval="2secs"
          join_retry_count="24" join_retry_timeout="5"/>
      </cluster-settings>
    </cache-topology>
  </cache-settings>
</cache-config>
```

Using the caches configuration you acquired in above step, you can create your cache by just specifying the required attributes to the createcache tool. Here is an example.

Let's your configuration file name is 'Testconfig.nconf'.

At the command prompt, type the following:

```
createcache demoCache /s 20.200.21.11 /T C:\Testconfig.nconf
```

1.2 Add Query Index (addqueryindex.exe)



This tool does not change the configuration of a running cache.

Add query index tool (addqueryindex) enable users to add query indexes for the objects to be added in the cache so that later on user can search items in the cache using these indexes.

At the command prompt, type the following:

```
addqueryindex [ cache-name ] [ /a | /c | /L ] [ options ]
[ cache-name ] [ /a assembly-path /c class /L attrib-list ]
[ cache-name ] [ /a assembly-path /c class /L attrib-list /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which query index will be configured.
/a /assembly-path	Specifies the path of the assembly which will be configured.
/c /class	Specifies the fully qualified class for query indexing.
/L /attrib-list	Specifies the attributes for query indexing (\$ separated) e.g. CustomerID\$Name ...

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Indexes a class in cache.
2. Enable users to perform search on indexed attributes.

Examples

The following command adds query index for the attribute CustomerID in cache.

```
addqueryindex demoCache /a C:\Data.dll /c Data.Customer /L CustomerID$FirstName
```

The following command adds query index for the attribute CustomerID in cache existing on server 20.200.21.11.

```
addqueryindex demoCache /a C:\Data.dll /c Data.Customer /L CustomerID$FirstName  
/s 20.200.21.11
```

The following command adds query index for the attribute CustomerID in cache existing on server 20.200.21.11 and port.

```
addqueryindex demoCache /a C:\Data.dll /c Data.Customer /L CustomerID$FirstName  
/s 20.200.21.11 /p 8250
```

1.3 Add Compact Type (addcompacttype.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Add compact type tool (addcompacttype) enable users to register a custom object for compact serialization for the given caches.

At the command prompt, type the following:

```
addcompacttype [ cache-name ] [ /a | /c | /al ] [ options ]  
[ cache-name ] [ /a assembly-path /c class ]  
[ cache-name ] [ /a assembly-path /c class /al non-compact-attributes ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which compact type will be configured.
/a /assembly-path	Specifies the path of the assembly which will be configured as a compact type.
/c /class	Specifies the class for compact serialization.

Option	Description
/al /non-compact-attributes	Specifies the non-compact attribute for compact serialization with a delimiter '\$'.
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Adds a class to cache configuration as compact serialized.
2. Adds a class to cache configuration with some of the attributes marked as non-compact whereas rest are compact serialized.

Examples

The following command configures a compact serializable object for the cache.

```
addcompacttype demoCache /a C:\Data.dll /c Data.Customer
```

The following command configures a compact serializable object for the cache with some non-compact attributes.

```
addcompacttype demoCache /a C:\Data.dll /c Data.Customer /al  
CustomerID$FirstName
```

The following command configures a compact serializable object for the cache with some non-compact attributes on server 20.200.21.11.

```
addcompacttype demoCache /a C:\Data.dll /c Data.Customer /al  
CustomerID$FirstName /s 20.200.21.11
```

1.4 Add Data Share (adddatashare.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Add data share tool (adddatashare) enable users to register different custom classes and data types for data sharing.

At the command prompt, type the following:

```
adddatashare [ cache-name ] [ /T ] [ options ]
[ cache-name ] [ /T path ]
[ cache-name ] [ /T path /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which data share will be configured.
/T /path	Specifies the path of the cache source config which will be configured.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Configure data sharing between different versions of objects of same platforms.
2. Configure data sharing between different objects of different platforms

Examples

The following command configures shared types object for the cache.

```
adddatastore demoCache /T C:\Config.xml
```

The following command configures shared types object for the cache existing on server 20.200.21.11.

```
adddatastore demoCache /T C:\Config.xml /s 20.200.21.11
```

The following command configures shared types object for the cache existing on server 20.200.21.11 and port.

```
adddatastore demoCache /T C:\Config.xml /s 20.200.21.11 /p 8250
```

Following is a sample data sharing configuration that can be used to configure a cache for data sharing. To configure data sharing for your own caches with this configuration just copy this configuration in a file and save it with .xml file extension. You can also get the configuration of data sharing by mapping attributes of your different classes in NCache Manager and exporting the configuration.

```
<?xml version="1.0" encoding="utf-8"?>
<!--This is NCache export file for shared data mapping. Using this file, you can
import the shared data configuration to multiple caches by using the 'Import'
feature available under 'Data Sharing' tab of NCache Manager.-->
<data-sharing>
  <type id="1001" handle="Products" portable="true">
    <attribute-list>
      <attribute name="_ProductID" type="System.Int32" order="1" />
      <attribute name="_ProductName" type="System.String" order="2" />
      <attribute name="_Supplier" type="System.Int32" order="3" />
      <attribute name="_Category" type="System.String" order="4" />
      <attribute name="_UnitsAvailable" type="System.Int32" order="5" />
      <attribute name="ProductID" type="int" order="6" />
      <attribute name="ProductName" type="java.lang.String" order="7" />
      <attribute name="Supplier" type="int" order="8" />
      <attribute name="Category" type="java.lang.String" order="9" />
      <attribute name="UnitsAvailable" type="int" order="10" />
    </attribute-list>
    <class name="SampleData.Data.Product:1.0.0.0"
      assembly="Data, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null"
      id="1"
      type="net">
      <attribute name="_ProductID" type="System.Int32" order="1" />
      <attribute name="_ProductName" type="System.String" order="2" />
      <attribute name="_Supplier" type="System.Int32" order="3" />
      <attribute name="_Category" type="System.String" order="4" />
      <attribute name="_UnitsAvailable" type="System.Int32" order="5" />
    </class>
    <class name="com.SampleData.Data.Product:0.0" assembly="" id="2" type="java">
      <attribute name="ProductID" type="int" order="1" />
    </class>
  </type>
</data-sharing>
```

```

<attribute name="ProductName" type="java.lang.String" order="2" />
<attribute name="Supplier" type="int" order="3" />
<attribute name="Category" type="java.lang.String" order="4" />
<attribute name="UnitsAvailable" type="int" order="5" />
</class>
</type>
</data-sharing>

```

Using the data sharing configuration you acquired in above step, you can configure multiple cache(s) by just specifying the required attributes to the adddatashare tool. Here is an example.

Let's your configuration file name is 'Testconfig.xml'.

At the command prompt, type the following:

```
adddatashare demoCache /s 20.200.21.11 /T C:\Testconfig.xml
```

1.5 Add Backing Source (addbackingsource.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Add backing source tool (addbackingsource) enable users to configure read-through and write-through provider for the cache.

At the command prompt, type the following:

```

addbackingsource [ cache-name ] [ /path | /c | /pn | /R | /W ] [ options ]
[ cache-name ] [ /path assembly-path /c class /pn provider-name /R /readthru ]
[ cache-name ] [ /path assembly-path /c class /pn provider-name /W /writethru ]

```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which backing source will be configured.
/path /assembly-path	Specifies the path of the assembly which will be configured as a backing source.
/c /class	Specifies the fully qualified class from the backing source assembly which implements ReadThru/WriteThru.
/pn /provider-	Specifies the provider name.

name	
/R /readthru	Specifies if provided backing source is configured for ReadThru.
/W /writethru	Specifies if provided backing source is configured for WriteThru.

Option	Description
/b /IsBatching	Specifies that whether you want to enable batching or not.
/od /Operation-delay	Specify the time that cache suspends each operation write on data source.
/bi /Batch-interval	Specifies periodic interval for operation expiration.
/ops /Operation-per-second	Specifies the rate at which cache writes the updates to database.
/oql /Operation-Queue-Limit	Specifies maximum operation count to be re-queued in case of data source write operation failure.
/oer /Operation-Eviction-Ratio	Specifies failed operations eviction ratio
/s /server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. The default is the local machine.
/p /port	Specifies the port if the server channel is not using the default port.
/pl /parameter-list	Specifies the list of the parameters passed to the backing source provider (\$ separated) e.g. key1=value1\$key2=value2\$....
/d /default	Specifies the default provider in case of multiple providers.
/nd /no-depoly	Specify if no assembly should be deployed.
/dp /dep-asm-path	Specifies the dependent assembly folder/path
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Configures the read-through, write-through and write-behind operation for given cache.
2. Configures backing source with batching option.
3. Configures backing source with re-queue option.
4. Configures write-behind with throttling (i.e. the rate at which updates are written by cache to datasource).

Examples

The following command configures read-through provider for the demoCache.

```
addbackingsource demoCache /path C:\Provider.dll /c ReadThrough.Reader /pn MyReader /R
```

The following command configures write-through provider for the demoCache.

```
addbackingsource demoCache /path C:\Provider.dll /c WriteThrough.Writer /pn MyWriter /W
```

The following command configures write-through provider with batching enabled, for the demoCache that exists on server 20.200.21.11.

```
addbackingsource demoCache /path C:\Provider.dll /c WriteThrough.Writer /pn MyWriter /W /s 20.200.21.11 /b
```

The following command configures write-through provider with batching enabled, operation-delay 10ms, batch-interval 5s, operations-per-second 500, operation-queue-limit 5000, operation-evictions-ratio 5%, parameter-list `_connectionString="Server=localhost;Database=Northwind;Trusted_Connection=True;"` and `LoggerInfo="Server=localhost;Database=TestLogger;Trusted_Connection=True;"` for the demoCache that exists on server 20.200.21.11.

```
addbackingsource demoCache /path C:\Provider.dll /c WriteThrough.Writer /pn MyWriter /W /s 20.200.21.11 /b /od 10 /bi 5 /ops 500 /oql 5000 /oer 5 /pl _connectionString=Server=localhost;Database=Northwind;Trusted_Connection=True;$ LoggerInfo=Server=localhost;Database=TestLogger;Trusted_Connection=True;
```

1.6 Add Startup Loader (addstartuploader.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Add start up loader tool (addstartuploader) enable users to configure start up loader provider for the cache which will load the items from datasource to the cache when cache will start.

At the command prompt, type the following:

```
addstartuploader [ cache-name ] [ /a | /c ] [ options ]
[ cache-name ] [ /a assembly-path /c class ]
[ cache-name ] [ /a assembly-path /c class /s server ]
[ cache-name ] [ /a assembly-path /c class /s server /D dependent-assembly-path ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which cache loader will be configured.
/a /assembly-path	Specifies the path of the assembly which will be configured as a startup loader.
/c /class	Specifies the fully qualified class from the startup loader which implements ICacheLoader/ICache Startup Provider.

Option	Description
/l /parameter-list	Specifies the list of the parameters passed to the cache loader e.g. key1=value1\$key2=value2...
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/d /no-depoly	Specify if no assembly should be deployed.
/D /dep-asm-path	Specifies the dependent assembly folder/path
/R /retries	Specifies number of retries for loading data in cache.
/i /retry-interval	Specifies the retry interval for loading data in cache.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.

/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Configure the startup-loader for given cache.
2. Enable users to define parameters list for startup loader configuration.
3. Enable users to deploy dependent assemblies with startup loader, if any.

Examples

The following command configures startup-loader for the demoCache.

```
addstartuploader demoCache /a C:\Provider.dll /c StartupLoader.Loader
```

The following command configures startup-loader for the demoCache with some initial parameters.

```
addstartuploader demoCache /a C:\Provider.dll /c StartupLoader.Loader /l  
_connectionString=Server=localhost;Database=Northwind;Trusted_Connection=True;$  
LoggerInfo=Server=localhost;Database=TestLogger;Trusted_Connection=True;
```

The following command configures startup-loader for the demoCache with some initial parameters for the demoCache exist on the server 20.200.21.11.

```
addstartuploader demoCache /a C:\Provider.dll /c StartupLoader.Loader /l  
_connectionString=Server=localhost;Database=Northwind;Trusted_Connection=True;$  
LoggerInfo=Server=localhost;Database=TestLogger;Trusted_Connection=True; /s  
20.200.21.11
```

The following command configures startup-loader for the demoCache with some initial parameters; retries 3 and retry-interval 60 seconds for the demoCache exist on the server 20.200.21.11.

```
addstartuploader demoCache /a C:\Provider.dll /c StartupLoader.Loader /l  
_connectionString=Server=localhost;Database=Northwind;Trusted_Connection=True;$  
LoggerInfo=Server=localhost;Database=TestLogger;Trusted_Connection=True; /R 3  
/i 60 /s 20.200.21.11
```

1.7 Deploy Provider (deployprovider.exe)



This tool requires NCache service to be restarted for the changes to take effect. It is only available in Enterprise edition.

Deploy provider tool (deployprovider) enables the user to deploy provider assemblies to the deployment folder in NCache installed directory.

At the command prompt, type the following:

```
deployprovider [ cache-name ] [ /T ] [options]
[ cache-name ] [ /T assembly-path ]
[ cache-name ] [ /T assembly-path /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for assembly's deployment.
/T /path	Specifies the path of the assembly/folder for deployment.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Deploy the provider assembly to the NCache installed directory.
2. Deploy the provider assembly to the NCache installed directory on specified server.

Examples

The following command deploys the assembly for demoCache.

```
deployprovider demoCache /T C:\Provider.dll
```

The following command deploys the assembly for demoCache on server 20.200.21.11.

```
deployprovider demoCache C:\Provider.dll /s 20.200.21.11
```

1.8 Configure Cache Security (configurecachesecurity.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Configure cache security tool (configurecachesecurity) enables the user to configure cache level security for the cache.

At the command prompt, type the following:

```
configurecachesecurity [ cache-name ] [ options ]

[ cache-name ] [ /A /N new-user /s server-name /U user-name /P password /c
domain-controller ]

[ cache-name ] [ /E /s server /U user-name /P password /C domain-controller ]
[ cache-name ] [ /D /s server /U user-name /P password /C domain-controller ]

[ cache-name ] [ /R /d user-to-delete /s server-name /U username /P password /C
domain-controller ]
```

Parameters:

Argument	Description
cache-name	Name of the cache for which you want to use this tool.

Option	Description
/A	Specifies that the tool is being used for adding a user in Cache administrator's list.
/R	Specifies that the tool is being used for removing a user from Cache administrator's list.
/E	Specifies that the tool is being used for enabling security on a specific node.
/D	Specifies that the tool is being used for disabling security on a specific node.
/N /new-user	Specifies the user name to add.
/d /user-to-	Specifies the existing user which is now being deleted or removed from

delete	NCache node administrators.
/s /server-name	Specifies the server node name.
/U /user-name	Specifies the NCache administrator name.
/P /password	Specifies the NCache administrator password.
/C /domain-controller	Specifies the domain controller.

Remarks

This tool performs the following basic functions:

1. Add new users to cache administrator's list.
2. Remove user from cache administrator's list.
3. Enable security for cache.
4. Disable security for cache.

Examples

The following command adds new users to cache administrator's list.

```
configurecachesecurity demoCache /A /N david_watson /s 20.200.21.11 /U  
david_watson /P ***** /C pdc
```

The following command deletes a user from cache administrator's list.

```
configurecachesecurity demoCache /R /d david_watson /s 20.200.21.11 /U  
david_watson /P ***** /C pdc
```

The following command enables security for the cache.

```
configurecachesecurity demoCache /E /s 20.200.21.11 /U david_watson /P *****  
/C pdc
```

The following command disables security for the cache.

```
configurecachesecurity demoCache /D /s 20.200.21.11 /U david_watson /P *****  
/C pdc
```

1.9 Configure Node Security (configurenodesecurity.exe)



This tool is only available in Enterprise edition.

Configure node security tool (configurenodesecurity) enables the user to configure node level security to perform administrative or management tasks.

At the command prompt, type the following:

```
configurenodesecurity [ cache-name ] [ options ]

[ cache-name ] [ /A /N new-user /n node-name /U user-name /P password /C
domain-controller ]

[ cache-name ] [ /E /n node-name /a admin-name /P password ]
[ cache-name ] [ /D /n node-name /U user-name /P password ]

[ cache-name ] [ /R /d user-to-delete /n node-name /U user-name /P password /C
domain-controller ]
```

Parameters:

Argument	Description
cache-name	Name of the cache for which you want to use this tool.

Option	Description
/A	Specifies that the tool is being used for adding a user to NCache node administrators.
/R	Specifies that the tool is being used for removing a user from NCache node administrators.
/E	Specifies that the tool is being used for enabling security on a specific node.
/D	Specifies that the tool is being used for disabling security on a specific node.
/N /new-user	Specifies the new user name to add.
/d /user-to-delete	Specifies the existing user which is now being deleted or removed from NCache node administrators.
/n /node-name	Specifies the target node.
/U /user-name	Specifies the NCache administrator name.

/P /password	Specifies the NCache administrator password.
/C /domain-controller	Specifies the domain controller.

Remarks

This tool performs the following basic functions:

1. Add new users to NCache node administrator's list.
2. Remove user from NCache node administrator's list.
3. Enable security on a specific node.
4. Disable security on a specific node.

Examples

The following command adds new users to node administrator's list.

```
configurenodesecurity demoCache /A /N david_watson /n 20.200.21.11 /U
david_watson /P ***** /C pdc
```

The following command deletes a user from node administrator's list.

```
configurenodesecurity demoCache /R /d david_watson /n 20.200.21.11 /U
david_watson /P ***** /C pdc
```

The following command enables security for the node.

```
configurenodesecurity demoCache /E /n 20.200.21.11 /a david_watson /P *****
```

The following command disables node security.

```
configurenodesecurity demoCache /D /n 20.200.21.11 /U david_watson /P *****
/C pdc
```

1.10 Add Node (addnode.exe)

Add node tool (addnode) enable users to add a new server node to the existing clustered cache.

At the command prompt, type the following:

```
addnode [ cache-name ] [ /x | /N ] [ options ]
[ cache-name ] [ /x existing-server /N new-server ]
```

```
[ cache-name ] [ /x existing-server /N new-server /p port ]
```

Parameters:

Argument	Description
cache-name	Specifies name of Clustered Cache .Cache must exist on source server.
/x /existing	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. Cache configuration is copied from this server to the destination server.
/N /new-server	Specifies a server name where a cache with the specified cache-name needs to be registered. The cache configuration is copied from the source server name to this server.

Option	Description
/p /port	Specifies the port if the server channel is not using the default port. The default is 8251 for http and 8250 for tcp channels
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Adds a new node to the existing cache on specified server.
2. Enable users to have multiple server nodes in a clustered cache.

Examples

The following command adds a new node 20.200.21.12 to the cache existing on server 20.200.21.11.

```
addnode demoCache /x 20.200.21.11 /N 20.200.21.12
```

The following command adds a new node 20.200.21.12 to the cache existing on server 20.200.21.11 and port.

```
addnode demoCache /x 20.200.21.11 /N 20.200.21.12 /p 8250
```

The following command adds a new node 20.200.21.12 to the cache existing on server 20.200.21.11 and port with security enabled.

```
addnode demoCache /x 20.200.21.11 /N 20.200.21.12 /p 8250 /U david_watson /P
*****
```

1.11 Add Client Node (addclientnode.exe)

Add client node tool (addclientnode) enable users to add client nodes to the existing clustered cache(s).

At the command prompt, type the following:

```
addclientnode [ cache-name ] [ /s | /e ] [options]
[ cache-name ] [ /s server /e client-node ]
[ cache-name ] [ /s server /e client-node /p port-number ]
[ cache-name ] [ /s server /e client-node /p port-number /u /a ]
```

Parameters:

Argument	Description
cache-name	Specifies one or more ids of clustered cache. Cache must exist on source server.
/s /server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. Client configuration is copied from this server to the client node.
/e /client-node	Specifies a client node (node to be added as client node) where the NCache service is running.

Option	Description
/p /port	Specifies a port number for communication with the NCache server. Default is 8250.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on cache server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>

/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/u /update-server-config	Specifies whether to update the client-nodes sections of server node(s) of the specified cluster. The default value is true.(Useful when cluster nodes and clients are in different networks)
/a /acquire-server-mapping	Specifies whether to fetch the server mapping list from the server node(s). The default value is false. (Useful when cluster nodes and clients are in different networks).
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Adds a client node to the clustered cache existing on specified server.
2. Updates the server configuration, if specified.
3. Acquires server-mapping list, if specified.

Examples

The following command adds a client node 20.200.21.12 to the demoCache which exists on server 20.200.20.11.

```
addclientnode demoCache /s 20.200.21.11 /e 20.200.21.12
```

The following command adds a client node 20.200.21.12 to the demoCache which exists on server 20.200.20.11 while specifying port-number.

```
addclientnode demoCache /s 20.200.21.11 /e 20.200.21.12 /p 8250
```

The following command adds a client node 20.200.21.12 to the demoCache which exists on server 20.200.20.11 while specifying port-number and not updating server config.

```
addclientnode demoCache /s 20.200.21.11 /e 20.200.21.12 /p 8250 /u
```

1.12 Create Client Cache (createclientcache.exe)



This tool is only available in Enterprise edition.

Create cache tool (createclientcache) enables the user to create a new client cache using this command line utility.

At the command prompt, type the following:

```
createclientcache [cache-name] [ /c | /s | /N ] [options]
[ cache-name ] [ /c client-cache-name /s server /N client-node /S cache-size ]
[ cache-name ] [ /c client-cache-name /s server /N client-node /T config-path ]
```

Parameters:

Argument	Description
cache-name	Specifies the clustered cache name. A clustered cache must be specified for creating a client cache.
/s /server	Specifies the NCache server name/ip where Cluster Cache is registered.
/c /client-cache-id	Specifies the name or Id of Client Cache.
/N /client-node	Specifies a client node which is registered with the Cluster Cache
For Simple Case: Cache will be created by input and default configuration settings.	
/S cache-size	Specifies the cache size allocated to the client cache.
For Advance Case: In this case all configurations related settings will be taken from specified configuration file.	
/T path	Specifies the path of the cache source config which will be configured.

Option	Description
/p /port	Specifies a port number for communication with the NCache server.
/R /inProc	Specifies whether the client cache is inProc or outProc. Default value is outProc
/m /pessimistic	Specifies if pessimistic Client Cache Synchronization Mode should be enabled. Default is Optimistic.
/y /evict-policy	Specifies the eviction policy for cache items. Cached items will be cleaned from the cache according to the specified policy if the cache reaches its

	<p>limit. Possible values are</p> <ul style="list-style-type: none"> i. Priority ii. LFU iii. LRU (default)
/o /ratio	<p>Specifies the eviction ratio (Percentage) for cache items. Cached items will be cleaned from the cache according to the specified ratio if the cache reaches its limit.</p> <p>Default value is 5 (percent)</p>
/i /interval	<p>Specifies the time interval (seconds) after which cache cleanup is called.</p> <p>Default clean-interval is 15 (seconds)</p>
/d /def-priority	<p>Specifies the default priority in case of priority based eviction policy is selected.</p> <p>Possible values are</p> <ul style="list-style-type: none"> vi. high vii. above-normal viii. normal (default) ix. below-normal x. low
/U /user-id	<p>Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.</p>
/P /password	<p>Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.</p>
/u /update-server-config	<p>Specifies whether to update the client-nodes sections of server node(s) of the specified cluster. The default value is true.(Useful when cluster nodes and clients are in different networks)</p>
/G /nologo	<p>Suppresses display of the logo banner</p>
/?	<p>Displays a detailed help screen</p>

Remarks

This tool performs the following basic functions:

1. Creates new client cache for an existing clustered cache on the specified client node.
2. Creates client cache with the configuration existing on the specified server.
3. Creates client cache with specified eviction settings.
4. Enable user to create inProc or outProc client cache(s).

Examples

The following command creates new client cache named demoClientCache on client node 20.200.21.12 for an already registered clustered cache on server 20.200.21.11 having size 1024 MB for simple case.

```
createclientcache demoCache /c demoClientCache /s 20.200.21.11 /S 1024 /N 20.200.21.12
```

The following command creates new client cache named demoClientCache on client node 20.200.21.12 for an already registered clustered cache on server 20.200.21.11 for advance case.

```
createclientcache demoCache /c demoClientCache /s 20.200.21.11 /N 20.200.21.12 /T C:\Config.xml
```

The following command creates new client cache named demoClientCache on client node 20.200.21.12 for an already registered clustered cache on server 20.200.21.11 having size 1024 MB and pessimistic Client Cache synchronization Mode for simple case

```
createclientcache demoCache /c demoClientCache /s 20.200.21.11 /S 1024 /N 20.200.21.12 /m
```

The following command creates client cache named demoClientCache on client node 20.200.21.12 while cache exists on server node 20.200.21.11, client cache created with size 1024 MB, eviction policy priority, default priority low, eviction ratio 30%, clean interval 20, client cache mode pessimistic, isolation level inproc and specifying security credentials of user Shawn marsh.

```
createclientcache demoCache /c demoClientCache /s 20.200.21.11 /N 20.200.21.12 /S 1024 /y priority /o 30 /i 20 /d low /u /m /R /U shawn_marsh /P *****
```

Following is a sample cache configuration that can be used to create a cache of same configuration. To create your own caches with this configuration just copy this configuration in a file and save it with .xml or .nconf file extension. You can also get the configuration of sample local cache shipped with NCache setup using getcacheconfiguration tool which gives you configuration of the specified cache.

```
<cache-config config-id="0">
  <cache-settings cache-name="myCache"
    alias=""
    inproc="False"
    last-modified=""
    auto-start="False">
    <logging enable-logs="True"
      trace-errors="True"
      trace-notice="False"
      trace-warnings="False"
      trace-debug="False"
      log-path="" />
    <performance-counters enable-counters="True" snmp-port="0" />
  </cache-settings>
</cache-config>
```

```

    <compression enable-compression="False" threshold="100kb"/>
    <cache-notifications item-remove="False"
                        item-add="False"
                        item-update="False"/>
    <cleanup interval="15sec"/>
    <storage type="heap" cache-size="1024mb"/>
    <eviction-policy enabled-eviction="False"
                    default-priority="normal"
                    policy="lru"
                    eviction-ratio="5%"/>
    <cache-topology topology="local-cache"/>
</cache-settings>
</cache-config>

```

Using the caches configuration you acquired in above step, you can create your client cache by just specifying the required attributes to the createclientcache tool. Here is an example.

Let's your configuration file name is 'TestLocalCacheConfig.ncconf'.

At the command prompt, type the following:

```

createclientcache demoCache /c demoClientCache /s 20.200.21.11 /N 20.200.21.12
/T C:\TestLocalCacheConfig.ncconf

```

1.13 Get Cache Configuration (getcacheconfiguration.exe)

Get cache configuration tool (getcacheconfiguration) enables the user to get the configuration for the specified cache.

At the command prompt, type the following:

```

getcacheconfiguration [ cache-name ] [ /s ] [ options ]
[ cache-name ] [ /s server /T path ]
[ cache-name ] [ /s server /p port ]

```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which cache configuration will be generated.
/s /server	Specifies the NCache server name/ip.

Option	Description
/T /path	Specifies the path where config will be generated.

/p /port	Specifies the port on which NCache server is listening.
/G /nologo	Suppresses display of the logo banner
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Generate the config file for cache registered on specified server.
2. Generate the config file for cache on specified path.

Examples

The following command generate the configuration file for the demoCache

```
getcacheconfiguration demoCache /s 20.200.21.11
```

The following command generate the configuration file for the demoCache on specified path

```
getcacheconfiguration demoCache /s 20.200.21.11 /T C:\Desktop\config.xml
```

The following command uses port also to generate the configuration file for the demoCache on specified path

```
getcacheconfiguration demoCache /s 20.200.21.11 /T C:\Desktop\config.xml /p 8250
```

1.14 List Caches (listcaches.exe)

List caches tool (listcaches) enables the user to list the total caches registered on the server and there status.

At the command prompt, type the following:

```
listcaches [ options ]
[ /a detail ]
[ /a detail /p port ]
[ /a detail /s server ]
```

Parameters:

Option	Description
/a /detail	Displays detailed information about the cache(s) registered on the

	server.
/s /server	Specifies a server name where the NCache service is running. The default is the local machine.
/p port	Specifies the port if the server channel is not using the default port. The default port for the channel is 8250.
/G /nologo	Suppresses the startup banner and copyright message.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. List all the caches registered on the server.
2. Show the status of the caches individually if they are running or not.
3. Displays detailed information about the cache(s).

Examples

The following command displays total numbers of caches currently registered on the server.

```
listcaches
```

The following command displays total numbers of caches currently registered on the server with detailed information.

```
listcaches /a
```

The following command displays total numbers of caches currently registered on the provided server with detailed information.

```
listcaches /a /s 20.200.21.11
```

1.15 Start Cache (startcache.exe)

Start cache tool (startcache) enable users to start a cache using this command line utility.

At the command prompt, type the following:

```
startcache [ cache-name ] [ options ]  
[ cache-name ] [ /s sever ]
```

```
[ cache-name ] [ /s server /p port ]
```

Parameters:

Argument	Description
cache-name	Specifies one or more name(s) of caches separated by space registered on the server. The cache(s) with this/these name(s) is/are started on the server. Note: Space-separated cache names are to be specified in case of multiple caches.

Option	Description
/s /server	Specifies a server name where the NCache service is running. The default is the local machine
/p /port	Specifies the port if the server channel is not using the default port. The default management port is 8250
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Starts the cache on current server node.
2. Start the cache on the specified server.

Examples

The following command starts cache on local server.

```
startcache demoCache
```

The following command starts cache demoCache existing on server 20.200.21.11.


```
startcache demoCache /s 20.200.21.11
```

The following command uses port and starts cache demoCache existing on server 20.200.21.11.

```
startcache demoCache /s 20.200.21.11 /p 8250
```

1.16 Add Test Data (addtestdata.exe)

Add test data tool (addtestdata) enables the user to add some test data to the cache to verify if the cache is started and working properly. The items added to the cache expire after 5 minute.

At the command prompt, type the following:

```
addtestdata [ cache-name ] [ options ]  
[ cache-name ] [ /c item-count ]  
[ cache-name ] [ /c item-count /S item-size ]
```

Parameters:

Argument	Description
cache-name	Name of the cache for which you want to use this tool.

Option	Description
/c item-count	Number of items to be added to the cache. By default 10 items are added to the cache.
/S /size	Specifies the port if the server channel is not using the default port. The default port is 9800.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Adds test data to the cache with expiration of 5 minutes.
2. Adds items of specified size.

Examples

The following command adds 10 items to the demoCache with expiry of 5 minute.

```
addtestdata demoCache
```

The following command adds 100 items to the demoCache with expiry of 5 minute.

```
addtestdata demoCache /c 100
```

The following command adds 100 items of size 2kb to the demoCache with expiry of 5 minute.

```
addtestdata demoCache /c 100 /S 2048
```

1.17 Get Cache Count (getcachecount.exe)

Get cache count (getcachecount) enables the user to get the total count of items present in the cache.

At the command prompt, type the following:

```
getcachecount [cache-name ] [options]  
[ cache-name ] [ /s server-ip ]  
[ cache-name ] [ /s server-ip /p port ]
```

Parameters:

Argument	Description
cache-name	Name of the cache for which you want to use this tool.

Option	Description
/s /server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. The default is the local machine.
/p port	Specifies the port if the server channel is not using the default port. The default port is 9800.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Gets the total number of items currently stored in cache.
2. Gets the count of cache registered on specified server.

Examples

The following command displays total numbers of items currently in cache.

```
Getcachecount demoCache
```

The following command displays total numbers of items currently in demoCache exist on server 20.200.21.11.

```
Getcachecount demoCache /s 20.200.21.11
```

The following command uses port also and displays total numbers of items currently in demoCache exist on server 20.200.21.11.

```
getcachecount demoCache /s 20.200.21.11 /p 8250
```

1.18 Dump Cache (dumpcache.exe)

Dump cache tool (dumpcache) enables the user to dump keys to the console currently present in the cache.

At the command prompt, type the following:

```
dumpcache [ cache-name ] [ options ]
[ cache-name ] [ /k key-count ]
[ cache-name ] [ /F key-filter ]
[ cache-name ] [ /k key-count /F key-filter ]
```

Parameters:

Argument	Description
cache-name	Specifies id of cache to be dumped.

Option	Description
/k /Key-Count	Specifies the number of keys. The default value is 1000.

/F /Key-Filter	Specifies the keys that contain this substring. By default it is empty.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Dump the keys present in the cache to the console.
2. Dump the keys filtered on the basis of key filter given.

Examples

The following command dumps the 1000 keys currently present in the cache

```
dumpcache demoCache
```

The following command dumps the 500 keys currently present in the cache

```
dumpcache demoCache /k 500
```

The following command dumps the 500 keys currently present in the cache containing 11 as substring in keys.

```
dumpcache demoCache /k 20 /F 11
```

1.19 Clear Cache (clearcache.exe)

Clear cache tool (clearcache) enables the user to clear the cache by removing all the items present in the cache.

At the command prompt, type the following:

```
clearcache [cache-name ] [options]
[ cache-name ] [ /w webcontent]
[ cache-name ] [ /F forceclear]
```

Parameters:

Argument	Description
cache-name	Name of the cache for which you want to use this tool.

Option	Description
/w /webcontent	Clear JavaScript and CSS only. NOTE: This option is only available in Enterprise edition.
/F /forceclear	Force the clearing of the cache. If not specified, the user is asked before clearing the cache.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Clears the cache, and asks user before clearing cache.
2. Clears the cache forcefully, if specified.
3. Clears the web contents only, if specified.

Examples

The following command clears the demoCache.

```
clearcache demoCache
```

The following command forcefully clears the cache and does not ask the user before clearing the cache.

```
clearcache demoCache /F
```

The following command clears JavaScript or CSS content from the cache.

```
clearcache demoCache /w
```

1.20 Stress Test Tool (stresstesttool.exe)

Stress test tool (stresstesttool) enables users to quickly simulate heavy transactional load on a given cache. And, this helps you see how NCache actually performs under stress in your own environment. Please watch NCache performance counters in NCache Manager "statistics" or regular PerfMon.

At the command prompt, type the following:

```
stresstesttool[ cache-name ] [ options ]
```

```
[ cache-name ] [ /n item-count ]
[ cache-name ] [ /m item-size /t thread-count ]
[ cache-name ] [ /m item-size /t thread-count /e sliding-expiration ]
[ cache-name ] [ /m item-size /t thread-count /r reporting-interval ]
```

Parameters:

Argument	Description
cache-name	Name of the cache.

Option	Description
/n item-count	How many total items you want to add. (default: infinite)
/i test-case-iterations	How many iterations within a test case (default: 20)
/d test-case-iteration-delay	How much delay (in seconds) between each test case iteration (default: 0)
/g gets-per-iteration	How many gets within one iteration of a test case (default: 1)
/u updates-per-iteration	How many updates within one iteration of a test case (default: 1)
/m item-size	Specify in bytes the size of each cache item (default: 1024)
/e sliding-expiration	Specify in seconds sliding expiration (default: 300; minimum: 15)
/t thread-count	How many client threads (default: 1; maximum: 3)
/r reporting-interval	Report after this many total iterations (default: 5000)
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Allow users to perform heavy load on cache and check performance of the cache.
2. Performs add, get, update and delete operation on the cache.

Examples

The following command executes stresstesttool on demoCache.

```
stresstesttool demoCache
```

The following command executes stresstesttool on demoCache and will add items of size 2kb.

```
stresstesttool demoCache /m 2048
```

The following command executes stresstesttool on demoCache and will add items of size 2kb using two threads.

```
stresstesttool demoCache /m 2048 /t 2
```

1.21 Stop Cache (stopcache.exe)

Stop cache tool (stopcache) enable users to stop a cache using this command line utility.

At the command prompt, type the following:

```
stopcache [ cache-name ] [ options ]  
[ cache-name ] [ /s sever ]  
[ cache-name ] [ /s server /g graceful-shutdown ]
```

Parameters:

Argument	Description
cache-name	Specifies one or more name(s) of caches separated by space registered on the server. The cache(s) with this/these name(s) is/are stopped on the server. Note: Space-separated cache names are to be specified in case of multiple caches.

Option	Description
/s /server	Specifies a server name where the NCache service is running. The default is the local machine.
/p /port	Specifies the port if the server channel is not using the default port. The default management port is 8250
/g /graceful-shutdown	Specifies if the cache be stopped gracefully. <u>NOTE: This option is only available in Enterprise edition.</u>
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must

	be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Stops the cache on specified server.
2. Stops a cache on specified server.
3. Stops a cache gracefully.

Examples

The following command stops cache on local server.

```
stopcache demoCache
```

The following command stops cache demoCache existing on server 20.200.21.11.

```
stopcache demoCache /s 20.200.21.11
```

The following command stops cache demoCache gracefully existing on server 20.200.21.11.

```
stopcache demoCache /s 20.200.21.11 /g
```

1.22 Remove Startup Loader (removestartuploader.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Remove start up loader tool (removestartuploader) enable users to remove a pre-configured start up loader provider of the given cache.

At the command prompt, type the following:


```
removestartuploader [cache-name ] [options]
[ cache-name ] [ /s sever ]
[ cache-name ] [ /s server /p port ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which cache loader will be removed.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Removes pre-configured startup loader.
2. Removes pre-configured startup loader on specified server.

Examples

The following command removes startup-loader for the demoCache.

```
removestartuploader demoCache
```

The following command uses port to removes startup-loader for the demoCache existing on server 20.200.21.11.

```
removestartuploader demoCache /s 20.200.21.11 /p 8250
```

1.23 Remove Backing Source (removebackingsource.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Remove backing source tool (removebackingsource) enable users to remove the already configured read-through and write-through provider for the cache.

At the command prompt, type the following:

```
removebackingsource [ cache-name ] [ /n | /R | /W ] [options]
[ cache-name ] [ /n provider-name /R ]
[ cache-name ] [ /n provider-name /w ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which backing source will be removed.
/n /provider-name	Specifies the provider name.
/R /readthru	Specifies if provided backing source is configured for ReadThru.
/W /writethru	Specifies if provided backing source is configured for WriteThru.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Remove pre-configured read-through provider for given cache.
2. Remove pre-configured write-through provider for given cache.
3. Remove pre-configured read-through or write-through provider for given cache on specified server.

Examples

The following command removes the pre-configured read-through provider for the demoCache.

```
removebackingsource demoCache /n MyReader /R
```

The following command removes the pre-configured write-through provider for the demoCache.

```
removebackingsource demoCache /n MyWriter /W
```

The following command removes the pre-configured write-through provider for the demoCache exist on the server 20.200.21.11.

```
removebackingsource demoCache /n MyWriter /W /s 20.200.21.11
```

The following command removes the pre-configured write-through provider using port for the demoCache exist on the server 20.200.21.11.

```
removebackingsource demoCache /n MyWriter /W /s 20.200.21.11 /p 8250
```

1.24 Remove Data Share (removedatashare.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Remove data share tool (removedatashare) enable users to remove already defined shared types.

At the command prompt, type the following:

```
removedatashare [ cache-name ] [options]  
[ cache-name ]  
[ cache-name ] [ /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which data share will be removed.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Removes pre-configured shared types from provided cache.
2. Removes pre-configured shared types from provided on specified server.

Examples

The following command removes defined shared types for demoCache.

```
removedatashare demoCache
```

The following command removes defined shared types for demoCache existing on server 20.200.21.11.

```
removedatashare demoCache /s 20.200.21.11
```

The following command removes defined shared types for demoCache existing on server 20.200.21.11 and port.

```
removedatashare demoCache /s 20.200.21.11 /p 8250
```

1.25 Remove Compact Type (removecompacttype.exe)



This tool does not change the configuration of a running cache. It is only available in Enterprise edition.

Remove compact type tool (removecompacttype) enable users to remove already defined compact serializable objects.

At the command prompt, type the following:

```
removecompacttype [ cache-name ] [ /c ] [options]
[ cache-name ] [ /c class ]
[ cache-name ] [ /c class /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which compact type will be removed.
/c /class	Specifies the class for removing from compact serialization.

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Remove compact serialized class from cache configuration.
2. Remove compact serialized class from cache configuration on specified server.

Examples

The following command removes the compact serializable class from cache configuration.

```
removecompacttype demoCache /c Data.Customer
```

The following command removes the compact serializable class from cache configuration on server 20.200.21.11.

```
removecompacttype demoCache /c Data.Customer /s 20.200.21.11
```

The following command removes the compact serializable class from cache configuration on server 20.200.21.11.

```
removecompacttype demoCache /c Data.Customer /s 20.200.21.11 /p 8250
```

1.26 Remove Query Index (removequeryindex.exe)



This tool does not change the configuration of a running cache.

Remove query index tool (removequeryindex) enable users to remove pre-defined query indexes for the objects to be added in the cache.

At the command prompt, type the following:

```
removequeryindex [cache-name ] [ /c ] [options]  
[ cache-name ] [ /c class ]  
[ cache-name ] [ /c class /L attrib-list /s server ]
```

Parameters:

Argument	Description
cache-name	Specifies the name of the cache for which query index will be removed.
/c /class	Specifies the class for removing query index.

Option	Description
/L /attrib-list	Specifies the attributes for removing from query index (\$ separated) e.g. CustomerID\$Name ...

/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Remove pre-defined query indexes for the objects.
2. Remove pre-defined query indexes of the specified class on given server.

Examples

The following command removes query indexes for customer class.

```
removequeryindex demoCache /c Data.Customer
```

The following command removes query indexes for customer class in demoCache existing on server 20.200.21.11.

```
removequeryindex demoCache /c Data.Customer /s 20.200.21.11
```

The following command removes query indexes for some attributes of customer class in demoCache existing on server 20.200.21.11.

```
removequeryindex demoCache /c Data.Customer /L CustomerID$FirstName /s  
20.200.21.11
```

1.27 Remove Client Cache (removeclientcache.exe)



This tool is only available in Enterprise edition.

Remove cache tool (removeclientcache) enables the user remove client cache from client node using this command line utility.

At the command prompt, type the following:

```
removeclientcache [ cache-name ][ /c | /N ] [ options ]
[ cache-name ] [ /c client-cache-name /N client-node ]
[ cache-name ] [ /c client-cache-name /N client-node ]
```

Parameters:

Argument	Description
cache-name	Specifies the clustered cache name. A clustered cache must be specified for each client cache.
/c client-cache	Specifies the name or Id of Client Cache to remove.
/N /node	Specifies the node on which you want to remove client cache.

Option	Description
/s server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. Cache configuration is copied from this server to the destination server. The default is the local machine.
/p /port	Specifies a port number for communication with the NCache server.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.
/G /nologo	Suppresses display of the logo banner
/?	Displays a detailed help screen

Remarks

This tool performs the following basic functions:

1. Removes client cache for an existing clustered cache.
2. Removes client cache for an existing clustered cache on specified server.

Examples

The following command removes client cache named demoClientCache from client node 20.200.21.12.

```
removeclientcache demoCache /c demoClientCache /N 20.200.21.12
```

The following command removes client cache named demoClientCache on client node 20.200.21.12 for an already registered clustered cache on server 20.200.21.11.

```
removeclientcache demoCache /c demoClientCache /s 20.200.21.11 /N 20.200.21.12
```

The following command removes used port to remove client cache named demoClientCache on client node 20.200.21.12 for an already registered clustered cache on server 20.200.21.11.

```
removeclientcache demoCache /c demoClientCache /s 20.200.21.11 /N 20.200.21.12 /p 8250
```

1.28 Remove Client Node (removeclientnode.exe)

Remove client node tool (removeclientnode) enable users to remove client nodes from the existing clustered caches.

At the command prompt, type the following:

```
removeclientnode [ cache-name ] [ /e ] [options]
[ cache-name ] [ /e client-node ]
[ cache-name ] [ /e client-node /s server-ip ]
```

Parameters:

Argument	Description
cache-name	Specifies id of Clustered Cache. Cache must exist on source server.
/e /client-node	Specifies a client node where the NCache service is running.

Option	Description
/S /server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. Cache configuration is

	copied from this server to the destination server. The default is the local machine.
/p /port	Specifies a port number for communication with the NCache server.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. NOTE: This option is only available in Enterprise edition.
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. NOTE: This option is only available in Enterprise edition.
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Removes a client node from the given clustered cache.
2. Removes the client node from the given clustered cache on specified server.

Examples

The following command removes client node 20.200.21.12 from the demoCache.

```
removeclientnode demoCache /e 20.200.21.12
```

The following command removes a client node 20.200.21.12 from the demoCache which exists on server 20.200.20.11.

```
removeclientnode demoCache /e 20.200.21.12 /s 20.200.21.11
```

The following command uses port also and removes a client node 20.200.21.12 from the demoCache which exists on server 20.200.20.11.

```
removeclientnode demoCache /e 20.200.21.12 /s 20.200.21.11 /p 8250
```

1.29 Remove Node (removenode.exe)

Remove node tool (removenode) enable users to remove node from existing cache.

At the command prompt, type the following:

```
removenode [cache-name ] [options]
[ cache-name ] [ /s server ]
[ cache-name ] [ /s server /g graceful-shutdown ]
```

Parameters:

Argument	Description
cache-name	Specifies id of cache registered on the server. The cache with this id is unregistered on the server.

Option	Description
/s server	Specifies a server name where the NCache service is running. This server will be removed from specified cache. The default is the local machine
/g graceful-shutdown	Specifies for graceful shutdown. <u>NOTE: This option is only available in Enterprise edition.</u>
/p /port	Specifies the port if the server channel is not using the default port. The default is 8251 for http and 8250 for tcp channels.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Removes node from existing cache on a server.
2. Removes specified node from provided clustered cache.

Examples

The following command removes local node from the demoCache.

```
removenode demoCache
```

The following command removes node 20.200.21.12 from the demoCache.

```
removenode demoCache /s 20.200.21.12
```

The following command uses port to removes node 20.200.21.12 from the demoCache with graceful-shutdown.

```
removenode demoCache /s 20.200.21.12 /p 8250 /g
```

1.30 Verify License (verifylicense.exe)

Verify license tool (verifylicense) enables the user to verify the NCache License. For registered version it will display the registration details. In evaluation mode it will display the remaining day if evaluation is still valid else give the expiration message.

At the command prompt, type the following:

```
verifylicense [ options ]  
[ /G /nologo ]
```

Parameters:

Option	Description
/G /nologo	Suppresses the startup banner and copyright message.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Shows the registration details.
2. Shows evaluation period.
3. Gives expiry information

Examples

The following command displays registration details.

```
verifylicense
```

The following command displays registration details without displaying logo banner.

```
verifylicense /G
```

1.31 Remove Cache (removecache.exe)

Remove cache tool (removecache) enables the user to remove an already registered cache using this command line utility.

At the command prompt, type the following:

```
removecache [cache-name ] [options]  
[ cache-name ] [ /s sever ]  
[ cache-name ] [ /s server /p port ]
```

Parameters:

Argument	Description
cache-name	Specifies one or more ids of Clustered Cache. Cache must exist on source server.

Option	Description
/s /server	Specifies a server name where the NCache service is running and a cache with the specified cache-name is registered. Cache configuration is copied from this server to the destination server. The default is the local machine.
/p /port	Specifies a port number on which cache is running.
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>

/G /nologo	Suppresses display of the logo banner
/?	Displays a detailed help screen

Remarks

This tool performs the following basic functions:

1. Remove already registered cache.
2. Remove registered cache(s) on specified server.

Examples

The following command removes the demoCache from local server

```
removecache demoCache
```

The following command removes the demoCache from server 20.200.21.11

```
removecache demoCache /s 20.200.21.11
```

The following command uses port also and removes the demoCache from server 20.200.21.11

```
removecache demoCache /s 20.200.21.11 /p 8250
```

1.32 Start Bridge (startbridge.exe)



This tool is only available in Enterprise edition.

Start bridge tool (startbridge) enable users to start a bridge using this command line utility.

At the command prompt, type the following:

```
startbridge [ bridge-name ] [options]
[ bridge-name ] [ /s sever ]
[ bridge-name ] [ /s server /p port ]
```

Parameters:

Argument	Description
----------	-------------

bridge-name	Specifies one or more name(s) of bridges registered on the server. The bridge(s) with this/these name(s) is/are started on the server.
--------------------	---

Option	Description
/s server-name	Specifies a server name where the NBridge service is running. The default is the local machine
/p port	Specifies the port if the server channel is not using the default port. The default is 8261 for http and 8260 for tcp channels
/U user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Start the bridge.
2. Start the bridge on specified server.

Examples

The following command starts bridge on local server.

```
startbridge demoBridge
```

The following command starts bridge demoBridge existing on server 20.200.21.11.

```
startbridge demoBridge /s 20.200.21.11
```

1.33 Stop Bridge (stopbridge.exe)



This tool is only available in Enterprise edition.

Stop bridge tool (stopbridge) enable users to stop a bridge using this command line utility.

At the command prompt, type the following:

```
stopbridge [ bridge-name ] [ options ]
[ bridge-name ] [ /s sever ]
[ bridge-name ] [ /s server /p port ]
```

Parameters:

Argument	Description
bridge-name	Specifies one or more name(s) of bridges registered on the server. The bridge(s) with this/these name(s) is/are stopped on the server.

Option	Description
/s /server	Specifies a server name where the NBridge service is running. The default is the local machine
/p /port	Specifies the port if the server channel is not using the default port. The default is 8261 for http and 8260 for tcp channels
/U /user-id	Specifies the user-id used to authorize the user for this operation. It is required in case security is enabled on Server. This user-id must be the active directory user-id prefixed with the domain name. <u>NOTE: This option is only available in Enterprise edition.</u>
/P /password	Specifies the password of the user that is used to authorize the user for this operation. It is required in case security is enabled on Server. This password must be the same as the active directory user password. <u>NOTE: This option is only available in Enterprise edition.</u>
/G /nologo	Suppresses display of the logo banner.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Stops the bridge.
2. Stops the bridge on specified server.

Examples

The following command stops bridge on local server.

```
stopbridge demoBridge
```

The following command stops bridge demoBridge existing on server 20.200.21.11.

```
stopbridge demoBridge /s 20.200.21.11
```

1.34 Server Logger (serverlogger.exe)



This tool is only available in Enterprise edition.

Server logger tool (serverLogger) is used to enable detailed logging for both socket-server and all the clients.

At the command prompt, type the following:

```
serverLogger [enable | disable] [options]  
[ enable ] [ /s sever ]  
[ enable ] [ /s server /p port ]
```

Parameters:

Argument	Description
enable	Enables error and detailed logging
disable	Disables error and detailed logging

Option	Description
/s /server	Specifies the NCache server name/ip.
/p /port	Specifies the port on which NCache server is listening.
/G /nologo	Suppresses display of the logo banner.

/?	Displays a detailed help screen.
-----------	----------------------------------

Remarks

This tool performs the following basic functions:

1. Enables runtime socket level logging
2. Store the logs on the installed path.

Examples

The following command enables socket-server logs.

```
serverLogger enable
```

The following command disables socket-server logs.

```
serverLogger disable
```

The following command enables socket-server logs on server 20.200.21.11.

```
serverLogger enable /s 20.200.21.11
```

1.35 Monitor Sever (monitorserver.exe)



This tool is only available in Enterprise edition.

Monitor sever tool (monitorserver) enables the user to start and stop monitoring the activities performed on the server and log these activities in a log file.

At the command prompt, type the following:

```
monitorserver start/stop [ options ]
start [ /s server ]
stop [ /s server /p port ]
```

Parameters:

Argument	Description
Start	Specifies to start monitoring.

Stop	Specifies to stop monitoring.
-------------	-------------------------------

Option	Description
/s /server	Specifies a server name where the NCache service is running. The default is the local machine.
/p port	Specifies the port if the server channel is not using the default port. The default port for the channel is 8250.
/G /nologo	Suppresses the startup banner and copyright message.
/?	Displays a detailed help screen.

Remarks

This tool performs the following basic functions:

1. Monitor the server activities.
2. Log the activities in a log file in NCache installed directory.

Examples

The following command starts monitoring the server.

```
Monitorserver start
```

The following command stops monitoring the server.

```
Monitorserver stop
```

The following command starts monitoring the server on node 20.200.21.11.

```
Monitorserver start /s 20.200.21.11
```