NCache Command Line Tools Guide

May 29, 2017
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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. Add Backing Source (addbackingsource.exe)

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which backing source will be configured.</td>
</tr>
<tr>
<td>/path /assembly-path</td>
<td>Specifies the path of the assembly which will be configured as a backing source.</td>
</tr>
<tr>
<td>/c /class</td>
<td>Specifies the fully qualified class from the backing source assembly which implements ReadThru/WriteThru.</td>
</tr>
<tr>
<td>/pn /provider-name</td>
<td>Specifies the provider name.</td>
</tr>
<tr>
<td>/R /readthru</td>
<td>Specifies if provided backing source is configured for ReadThru.</td>
</tr>
<tr>
<td>/W /writethru</td>
<td>Specifies if provided backing source is configured for WriteThru.</td>
</tr>
</tbody>
</table>

Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/b /IsBatching</td>
<td>Specifies that whether you want to enable batching or not.</td>
</tr>
<tr>
<td>/od /Operation-delay</td>
<td>Specify the time that cache suspends each operation write on data source.</td>
</tr>
<tr>
<td>/bi /Batch-interval</td>
<td>Specifies periodic interval for operation expiration.</td>
</tr>
<tr>
<td>/ops /Operation-per-second</td>
<td>Specifies the rate at which cache writes the updates to database.</td>
</tr>
<tr>
<td>/oql /Operation-Queue-Limit</td>
<td>Specifies maximum operation count to be re-queued in case of data source write operation failure.</td>
</tr>
<tr>
<td>/oer /Operation-Eviction-Ratio</td>
<td>Specifies failed operations eviction ratio</td>
</tr>
</tbody>
</table>
/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-deploy 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:

- Configures the read-through, write-through and write-behind operation for given cache.
- Configures backing source with batching option.
- Configures backing source with re-queue option.
- 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.

```
```
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;
```

### 2. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies one or more ids of clustered cache. Cache must exist on source server.</td>
</tr>
<tr>
<td>/s /server</td>
<td>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.</td>
</tr>
<tr>
<td>/e /client-node</td>
<td>Specifies a client node (node to be added as client node) where the NCache service is running.</td>
</tr>
</tbody>
</table>

#### Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/p /port</td>
<td>Specifies a port number for communication with the NCache server. Default is 8250.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
</tbody>
</table>
### Remarks

This tool performs the following basic functions:

- Adds a client node to the clustered cache existing on specified server.
- Updates the server configuration, if specified.
- 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.

```
```

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.

```
```

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.

```
```

### 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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which compact type will be configured.</td>
</tr>
<tr>
<td>/a /assembly-path</td>
<td>Specifies the path of the assembly which will be configured as a compact type.</td>
</tr>
<tr>
<td>/c /class</td>
<td>Specifies the class for compact serialization.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/al /non-compact-attributes</td>
<td>Specifies the non-compact attribute for compact serialization with a delimiter '$'.</td>
</tr>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

- Adds a class to cache configuration as compact serialized.
- 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.

```plaintext
addcompacttype demoCache /a C:\Data.dll /c Data.Customer /a1 CustomerID$FirstName /s 20.200.21.11
```

### 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) enables users to register different custom classes and data types for data sharing.

At the command prompt, type the following:

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

#### Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which data share will be configured.</td>
</tr>
<tr>
<td>/T /path</td>
<td>Specifies the path of the cache source config which will be configured.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

#### Remarks

This tool performs the following basic functions:

- Configure data sharing between different versions of objects of same platforms.
Configure data sharing between different objects of different platforms

**Examples**

The following command configures shared types object for the cache.

```
addin.datashare demoCache /T C:\Config.xml
```

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

```
addin.datashare 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.

```
addin.datashare 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.
Let's specifying the required attributes to the NCache command line tool. Here is an example:

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 suppose 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
```
5. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies name of Clustered Cache. Cache must exist on source server.</td>
</tr>
<tr>
<td>/x /existing</td>
<td>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.</td>
</tr>
<tr>
<td>/N /new-server</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/p /port</td>
<td>Specifies the port if the server channel is not using the default port. The default is 8251 for http and 8250 for tcp channels</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/P /password</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

### Remarks

This tool performs the following basic functions:

- Adds a new node to the existing cache on specified server.
- 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.

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

```
```

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.

```
```

### 6. 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

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

#### Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>NOTE: This option is only available in Enterprise edition.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>NOTE: This option is only available in Enterprise edition.</td>
</tr>
</tbody>
</table>
Remarks

This tool performs the following basic functions:

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

Examples

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

```plaintext
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.

```plaintext
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.

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

7. 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) enables 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:

```plaintext
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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which cache loader will be configured.</td>
</tr>
</tbody>
</table>
**Option** | **Description**
--- | ---
/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`.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/l parameter-list</td>
<td>Specifies the list of the parameters passed to the cache loader e.g. <code>key1=value1$key2=value2...</code></td>
</tr>
<tr>
<td>/s server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/d no-deploy</td>
<td>Specify if no assembly should be deployed.</td>
</tr>
<tr>
<td>/D dep-asm-path</td>
<td>Specifies the dependent assembly folder/path.</td>
</tr>
<tr>
<td>/R retries</td>
<td>Specifies number of retries for loading data in cache.</td>
</tr>
<tr>
<td>/i retry-interval</td>
<td>Specifies the retry interval for loading data in cache.</td>
</tr>
<tr>
<td>/U user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P password</td>
<td>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.</td>
</tr>
<tr>
<td>/G nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

- Configure the startup-loader for given cache.
- Enable users to define parameters list for startup loader configuration.
- 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;$
```
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.

```
LoggerInfo=Server=localhost;Database=TestLogger;Trusted_Connection=True; /s 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
```

8. 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 minutes.

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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Name of the cache for which you want to use this tool.</td>
</tr>
</tbody>
</table>

**Option**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/c item-count</td>
<td>Number of items to be added to the cache. By default 10 items are added to the cache.</td>
</tr>
<tr>
<td>/S /size</td>
<td>Specifies the port if the server channel is not using the default port. The default port is 9800.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

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

**Examples**
The following command adds 10 items to the demoCache with expiry of 5 minutes.

```
addtestdata demoCache
```

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

```
addtestdata demoCache /c 100
```

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

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

## 9. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Name of the cache for which you want to use this tool.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/w /webcontent</td>
<td>Clear JavaScript and CSS only. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/F /forceclear</td>
<td>Force the clearing of the cache. If not specified, the user is asked before clearing the cache.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

### Remarks

This tool performs the following basic functions:

- Clears the cache, and asks user before clearing cache.
- Clears the cache forcefully, if specified.
- 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
```

### 10. **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 ]
```

<table>
<thead>
<tr>
<th>cache-name</th>
<th>Specifies the name of the cache for which cache will be registered.</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server names/IPs where Cache should be configured, separated by commas e.g. 20.200.21.11,20.200.21.12</td>
</tr>
</tbody>
</table>

**For Simple Case: Cache will be created by input and default configuration settings.**

<table>
<thead>
<tr>
<th>/S cache-size</th>
<th>Specifies the size (MB) of the cache to be created.</th>
</tr>
</thead>
</table>

**For Advance Case: In this case all configurations related settings will be taken from specified configuration file.**

<table>
<thead>
<tr>
<th>/I /inproc</th>
<th>Specify the isolation level for local cache.</th>
</tr>
</thead>
<tbody>
<tr>
<td>/T path</td>
<td>Specifies the path of the cache source config which will be configured.</td>
</tr>
<tr>
<td>/t /topology</td>
<td>For topology other than local you have to give topology and cluster port.</td>
</tr>
</tbody>
</table>
Specifies the topology in case of clustered cache. Possible values are
   I. local
   II. mirrored
   III. replicated
   IV. partitioned
   V. partitioned-replica

NOTE: Mirrored and partitioned-replica are only available in Enterprise edition.

<table>
<thead>
<tr>
<th>/c /cluster-port</th>
<th>Specifies the port of the server, at which server listens.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/d /def-priority</td>
<td>Specifies the default priority in case of priority based eviction policy is selected. Possible values are</td>
</tr>
<tr>
<td></td>
<td>i. high</td>
</tr>
<tr>
<td></td>
<td>ii. above-normal</td>
</tr>
<tr>
<td></td>
<td>iii. normal (default)</td>
</tr>
<tr>
<td></td>
<td>iv. below-normal</td>
</tr>
<tr>
<td></td>
<td>v. low</td>
</tr>
</tbody>
</table>

For Simple case:

| /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 limit. Possible values are |
|                 | i. Priority |
|                 | ii. LFU     |
|                 | iii. LRU (default) |

NOTE: LFU and LRU are only available in Enterprise edition.

<table>
<thead>
<tr>
<th>/o /ratio</th>
<th>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. Default value is 5 (percent)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>/i /interval</th>
<th>Specifies the time interval (seconds) after which cache cleanup is called. Default clean-interval is 15 (seconds)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>/R /replication-strategy</th>
<th>Only in case of 'partition-replicas-server' being the topology, this specifies the replication strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>i. Async (default)</td>
</tr>
<tr>
<td></td>
<td>ii. Sync</td>
</tr>
</tbody>
</table>

NOTE: This option is only available in Enterprise edition.

For Both cases:

<table>
<thead>
<tr>
<th>/p /port</th>
<th>Specifies the port on which NCache server is listening.</th>
</tr>
</thead>
<tbody>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>NOTE: This option is only available in Enterprise edition.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
</tbody>
</table>
NOTE: This option is only available in Enterprise edition.

/? Displays a detailed help screen

Remarks

This tool performs the following basic functions:

- Creates a local cache with minimum arguments of cache name, server and size.
- Creates a clustered cache with cache-name, size, server, topology and cluster-port.
- 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.

```command
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.

```command
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.

```command
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.

```command
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 .ncconf 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.

```xml
<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"/>
  </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 suppose your configuration file name is 'Testconfig.ncconf'.

At the command prompt, type the following:

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

### 11. 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:

```bash
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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Name of the cache for which you want to use this tool.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>/A</td>
<td>Specifies that the tool is being used for adding a user in Cache administrator’s list.</td>
</tr>
<tr>
<td>/R</td>
<td>Specifies that the tool is being used for removing a user from Cache administrator’s list.</td>
</tr>
<tr>
<td>/E</td>
<td>Specifies that the tool is being used for enabling security on a specific node.</td>
</tr>
<tr>
<td>/D</td>
<td>Specifies that the tool is being used for disabling security on a specific node.</td>
</tr>
<tr>
<td>/N</td>
<td>Specifies the user name to add.</td>
</tr>
<tr>
<td>/d</td>
<td>Specifies the existing user which is now being deleted or removed from NCache node administrators.</td>
</tr>
<tr>
<td>/s</td>
<td>Specifies the server node name.</td>
</tr>
<tr>
<td>/U</td>
<td>Specifies the NCache administrator name.</td>
</tr>
<tr>
<td>/P</td>
<td>Specifies the NCache administrator password.</td>
</tr>
<tr>
<td>/C</td>
<td>Specifies the domain controller.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

- Add new users to cache administrator’s list.
- Remove user from cache administrator’s list.
- Enable security for cache.
- 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
```
12. Configure MapReduce (configuremapreduce.exe)

This tool is only available in Enterprise edition.

Configure MapReduce tool (configuremapreduce) enables the user to configure MapReduce tasks for processing and generating large data sets with a parallel, distributed algorithm on a cluster through NCache.

At the command prompt, type the following:

```
configuremapreduce [ cache-name ] [ options ]
[ cache-name ] [ /s server ]
[ cache-name ] [ /s server /p port ]
[ cache-name ] [ /m maxTasks /c chunk /q queue /e exception]
```

Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cache-name</td>
<td>Specifies the id/name of cache for which MapReduce will be configured.</td>
</tr>
</tbody>
</table>

Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s</td>
<td>Specifies a server name where the NCache service is running.</td>
</tr>
<tr>
<td></td>
<td>The default is the local machine.</td>
</tr>
<tr>
<td>/p</td>
<td>Specifies the port if the server channel is not using the default port.</td>
</tr>
<tr>
<td></td>
<td>The default port for the channel is 8250.</td>
</tr>
<tr>
<td>/m</td>
<td>Specifies the maximum number of tasks to be executed in parallel.</td>
</tr>
<tr>
<td>/c</td>
<td>Specifies the number of elements a chunk should contain before it is</td>
</tr>
<tr>
<td></td>
<td>transmitted to combiner or reducer.</td>
</tr>
<tr>
<td>/q</td>
<td>Specifies the maximum number of tasks that can be queued if the server is</td>
</tr>
<tr>
<td></td>
<td>busy.</td>
</tr>
<tr>
<td>/E</td>
<td>Specifies maximum avoidable exceptions while executing the task.</td>
</tr>
<tr>
<td>/U</td>
<td>Specifies the user-id used to authorize the user for this operation.</td>
</tr>
<tr>
<td></td>
<td>It is required in case security is enabled on Cache Server. This user-id</td>
</tr>
<tr>
<td></td>
<td>must be the active directory user-id prefixed with the domain name.</td>
</tr>
<tr>
<td>/P</td>
<td>Specifies the password of the user that is used to authorize the user for</td>
</tr>
<tr>
<td></td>
<td>this operation. It is required in case security is enabled on Cache Server.</td>
</tr>
<tr>
<td></td>
<td>This password must be the same as the active directory user password.</td>
</tr>
<tr>
<td>/G</td>
<td>Suppresses the startup banner and copyright message.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

Remarks

This tool performs the following basic functions:

1. Configure MapReduce to run tasks in parallel over the cache server.
2. Queue any tasks if the server is busy.
3. Log task failure errors in the cache log after a specified limit of exceptions are avoided during task execution.

Examples

The following command configures MapReduce execution on demoCache with default options.

```
configuremapreduce demoCache
```

The following command will configure MapReduce on demoCache with 10 tasks to be executed in parallel with chunks of 100 elements each, 30 tasks to be enqueued and maximum 10 exceptions to be avoided.

```
configuremapreduce demoCache /m 10 /c 100 /q 30 /e 10
```

13. 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.

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

This tool performs the following basic functions:

- Add new user to NCache node administrator’s list.

  ```
  /M[newuserpassword] new-user-password /s[servername] server-name /U[adminid] admin-
  name /P[password] password /C[domaincontroller] domain-controller /w
  ```

- Remove user from NCache node administrator’s list.

  ```
  configurenodesecurity /R[removeuser] /d[deleteuser] user-to-delete /n[nodename]
  node-name /U[adminid] admin-name /P[password] password /C[domaincontroller] domain-
  controller
  ```

- Enable security on a specific node.

  ```
  configurenodesecurity /E[enablesecurity] /n[nodename] node-name /U[adminid] admin-
  name /P[password] password
  ```

- Disable security on a specific node.
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Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Name of the cache for which you want to use this tool.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/A</td>
<td>Specifies that the tool is being used for adding a user to NCache node administrators.</td>
</tr>
<tr>
<td>/R</td>
<td>Specifies that the tool is being used for removing a user from NCache node administrators.</td>
</tr>
<tr>
<td>/E</td>
<td>Specifies that the tool is being used for enabling security on a specific node.</td>
</tr>
<tr>
<td>/D</td>
<td>Specifies that the tool is being used for disabling security on a specific node.</td>
</tr>
<tr>
<td>/N/new-user</td>
<td>Specifies the new user name to add.</td>
</tr>
<tr>
<td>/M/new-user-password</td>
<td>Password of new user. This is an OPTIONAL switch. Only useful for secured auto-start caches.</td>
</tr>
<tr>
<td>/w [writetoservice]</td>
<td>If specified, the tool will write user name and password (encrypted) in NCacheService.exe.config file for caches that require security credentials during auto-start. This option does not take any parameters.</td>
</tr>
<tr>
<td>/d/user-to-delete</td>
<td>Specifies the existing user which is now being deleted or removed from NCache node administrators.</td>
</tr>
<tr>
<td>/n/node-name</td>
<td>Specifies the target node.</td>
</tr>
<tr>
<td>/U/user-name</td>
<td>Specifies the NCache administrator name.</td>
</tr>
<tr>
<td>/P/password</td>
<td>Specifies the NCache administrator password.</td>
</tr>
<tr>
<td>/C/domain-controller</td>
<td>Specifies the domain controller.</td>
</tr>
</tbody>
</table>

Examples

- The following command adds new user david_watson to node (20.200.21.11) administrator’s list for demoCache, and writes the security credentials for the user to NCacheService.exe.config.

  configurenodesecurity demoCache /A /N david_watson /M myuserpassword /n 20.200.21.11 /U david_watson /P ******** /w

- The following command deletes user david_watson from node (20.200.21.11) administrator’s list for demoCache.

  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 20.200.21.11 in demoCache.

  configurenodesecurity demoCache /E /n 20.200.21.11 /U david_watson /P ********
14. Create Client Cache (createclientcache.exe)

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the clustered cache name. A clustered cache must be specified for creating a client cache.</td>
</tr>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip where Cluster Cache is registered.</td>
</tr>
<tr>
<td>/c /client-cache-id</td>
<td>Specifies the name or Id of Client Cache.</td>
</tr>
<tr>
<td>/N /client-node</td>
<td>Specifies a client node which is registered with the Cluster Cache.</td>
</tr>
</tbody>
</table>

**For Simple Case:** Cache will be created by input and default configuration settings.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/S cache-size</td>
<td>Specifies the cache size allocated to the client cache.</td>
</tr>
</tbody>
</table>

**For Advance Case:** In this case all configurations related settings will be taken from specified configuration file.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/T path</td>
<td>Specifies the path of the cache source config which will be configured.</td>
</tr>
</tbody>
</table>

### Option

<table>
<thead>
<tr>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/p /port</td>
<td>Specifies a port number for communication with the NCache server.</td>
</tr>
<tr>
<td>/R /inProc</td>
<td>Specifies whether the client cache is inProc or outProc. Default value is outProc.</td>
</tr>
<tr>
<td>/m /pessimistic</td>
<td>Specifies if pessimistic Client Cache Synchronization Mode should be enabled. Default is Optimistic.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>/y /evict-policy</th>
<th>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:</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Priority</td>
<td></td>
</tr>
<tr>
<td>ii. LFU</td>
<td></td>
</tr>
<tr>
<td>iii. LRU (default)</td>
<td></td>
</tr>
</tbody>
</table>

| /o /ratio | 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. Default value is 5 (percent)

/i /interval
Specifies the time interval (seconds) after which cache cleanup is called. Default clean-interval is 15 (seconds)

/d /def-priority
Specifies the default priority in case of priority based eviction policy is selected. Possible values are
  vi. high
  vii. above-normal
  viii. normal (default)
  ix. below-normal
  x. low

/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.

/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)

/G /nologo
Suppresses display of the logo banner

/?
Displays a detailed help screen

Remarks
This tool performs the following basic functions:

- Creates new client cache for an existing clustered cache on the specified client node.
- Creates client cache with the configuration existing on the specified server.
- Creates client cache with specified eviction settings.
- 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 for advance case.


```
```

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.

```
```

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 .ncconf 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-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="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 suppose your configuration file name is ‘TestLocalCacheConfig.ncconf’.
At the command prompt, type the following:

```
```

### 15. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for assembly’s deployment.</td>
</tr>
<tr>
<td>/T /path</td>
<td>Specifies the path of the assembly/folder for deployment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

#### Remarks

This tool performs the following basic functions:

- Deploy the provider assembly to the NCache installed directory.
- 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.
### 16. Dump Cache Data (dumpcachedata.exe)

Dump cache data tool (dumpcachedata) enables the user to get a backup of all the items currently present in the cache to a network or local path.

The same tool can be used to restore the items to a specified cache using a previously created backup from a local or network path.

At the command prompt, type the following:

```bash
dumpcachedata [ cache-name ] [/p | /path] [/a | /assembly] [ options ]
[ cache-name ] [ /p local-path /a assembly-path]
[ cache-name ] [ /p local-path /a assembly-path /r]
[ cache-name ] [ /p local-path /a assembly-path /f 2]
[ cache-name ] [ /p local-path /a assembly-path /r /t 2 ]
[ cache-name ] [ /p local-path /a assembly-path /r /e asbefore]
[ cache-name ] [ /p local-path /a assembly-path /r /b 100]
```

#### Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies id of cache to be backed up or restored.</td>
</tr>
</tbody>
</table>

#### Option Description

- `/p` or `/path`: Specifies backup/restore path.
- `/a` or `/assembly-folder`: Specifies path where dependent assemblies reside.
- `/b` or `/bulk-size`: Specifies bulk insertion size during restore. Default: 1000.
- `/f` or `/file-size`: Specifies file size limit of the data file generated during backup. Default: 5 MB.
- `/t` or `/error-threshold`: Specifies the number of errors that can be tolerated during backup or restore. Default: 1.
- `/r` or `/reload`: Restore the data from the specified path to the specified cache.
- `/e` or `/expiry`: Specifies the expiration policy with which the data is restored to cache. Default: Adjusted. [Options:] None, Adjusted, Asbefore.
- `/G` or `/nologo`: Suppresses display of the logo banner.
- `/U` or `/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` or `/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.
- `/?`: Displays a detailed help screen.

#### Remarks

This tool performs the following basic functions:

1. Backup the items present in the cache to the specified local or network path.
2. Restore the items to the specified cache from the specified local or network path.

Examples

The following command backs up all the keys currently present in the cache.

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\"
```

The following command reloads all the items to the cache from the path specified.

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\" /r
```

The following command backs up all the keys currently present in the cache to data file sizes of maximum 2 MB.

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\" /f 2
```

The following command reloads all the items to the cache from the path specified and will exit if 10 errors occur during the process.

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\" /r /t 10
```

The following command reloads all the items in bulk of 100 to the cache from the path specified.

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\" /r /b 100
```

The following command reloads all the items to the cache from the path specified without absolute expiration (if applicable).

```
dumpcachedata demoCache /a "C:\assembly-folder\" /p "C:\Backup-path\" /r /e none
```

17. **Dump Cache Keys (dumpcachekeys.exe)**

Dump cache tool (dumpcachekeys) 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies id of cache to be dumped.</td>
</tr>
</tbody>
</table>
### Option Description

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/k /Key-Count</td>
<td>Specifies the number of keys. The default value is 1000.</td>
</tr>
<tr>
<td>/F /Key-Filter</td>
<td>Specifies the keys that contain this substring. By default it is empty.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

### Remarks

This tool performs the following basic functions:

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

### Examples

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

```bash
dumpcachekeys demoCache
```

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

```bash
dumpcachekeys demoCache /k 500
```

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

```bash
dumpcachekeys demoCache /k 20 /F 11
```

### 18. 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:

```bash
getchacheconfiguration [ cache-name ][ /s ] [ options ] [ cache-name ] [ /s server /T path ] [ cache-name ] [ /s server /p port ]
```

### Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which cache configuration will be generated.</td>
</tr>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/T /path</td>
<td>Specifies the path where config will be generated.</td>
</tr>
</tbody>
</table>
NCache Command Line Tool Guide

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/p port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

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

**Examples**

The following command generates the configuration file for the demoCache.

```
getcacheconfiguration demoCache /s 20.200.21.11
```

The following command generates 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
```

19. **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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Name of the cache for which you want to use this tool.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>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.</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies the port if the server channel is not using the default port. The default port is 9800.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
</tbody>
</table>
NCache Command Line Tool Guide

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/D /password</td>
<td>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.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

Remarks

This tool performs the following basic functions:

- Gets the total number of items currently stored in cache.
- 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
```

20. 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

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/a /detail</td>
<td>Displays detailed information about the cache(s) registered on the server.</td>
</tr>
<tr>
<td>/s /server</td>
<td>Specifies a server name where the NCcache service is running. The default is the local machine.</td>
</tr>
</tbody>
</table>
**Remarks**

This tool performs the following basic functions:

- List all the caches registered on the server.
- Show the status of the caches individually if they are running or not.
- 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
```

### 21. Monitor Server (monitorserver.exe)

This tool is only available in Enterprise edition.

Monitor server 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 ]
```

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Start</strong></td>
<td>Specifies to start monitoring.</td>
</tr>
<tr>
<td><strong>Stop</strong></td>
<td>Specifies to stop monitoring.</td>
</tr>
</tbody>
</table>
### Table of Options

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

### Remarks

This tool performs the following basic functions:

- Monitor the server activities.
- 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
```

### 22. Remove Backing Source (removebackingsource.exe)

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

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

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which backing source will be removed.</td>
</tr>
<tr>
<td>/n provider-name</td>
<td>Specifies the provider name.</td>
</tr>
<tr>
<td>/R readthru</td>
<td>Specifies if provided backing source is configured for ReadThru.</td>
</tr>
<tr>
<td>/W writethru</td>
<td>Specifies if provided backing source is configured for WriteThru.</td>
</tr>
</tbody>
</table>

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

### Remarks

This tool performs the following basic functions:

- Remove pre-configured read-through provider for given cache.
- Remove pre-configured write-through provider for given cache.
- 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.

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

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

```bash
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.

```bash
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
```

### 23. **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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies one or more ids of Clustered Cache. Cache must exist on source server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s server</td>
<td>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.</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies a port number on which cache is running.</td>
</tr>
<tr>
<td>/U userid</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/P password</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/G nologo</td>
<td>Suppresses display of the logo banner</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen</td>
</tr>
</tbody>
</table>

#### Remarks

This tool performs the following basic functions:

- Remove already registered cache.
- 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

24. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the clustered cache name. A clustered cache must be specified for each client cache.</td>
</tr>
<tr>
<td>/c client-cache</td>
<td>Specifies the name or Id of Client Cache to remove.</td>
</tr>
<tr>
<td>/N /node</td>
<td>Specifies the node on which you want to remove client cache.</td>
</tr>
</tbody>
</table>

Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s server</td>
<td>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.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies a port number for communication with the NCache server.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>Specifies the password of the user that is used to authorize the user for this</td>
</tr>
</tbody>
</table>
operation. It is required in case security is enabled on Cache Server. This password must be the same as the active directory user password.

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen</td>
</tr>
</tbody>
</table>

Remarks

This tool performs the following basic functions:

- Removes client cache for an existing clustered cache.
- 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.

```
```

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.

```
```

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.

```
```

25. **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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies id of Clustered Cache. Cache must exist on source server.</td>
</tr>
<tr>
<td>/e /client-node</td>
<td>Specifies a client node where the NCache service is running.</td>
</tr>
</tbody>
</table>
### 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:

- Removes a client node from the given clustered cache.
- 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 20.200.21.11.

```
```

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.

```
```
26. **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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which compact type will be removed.</td>
</tr>
<tr>
<td>/c /class</td>
<td>Specifies the class for removing from compact serialization.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

**Remarks**

This tool performs the following basic functions:

- Remove compact serialized class from cache configuration.
- 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.

```
```

### 27. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which data share will be removed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

#### Remarks

This tool performs the following basic functions:

- Removes pre-configured shared types from provided cache.
- 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
```

28. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies id of cache registered on the server. The cache with this id is unregistered on the server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s server</td>
<td>Specifies a server name where the NCache service is running. This server will be removed from specified cache. The default is the local machine</td>
</tr>
</tbody>
</table>
| /g graceful-shutdown | Specifies for graceful shutdown.  
**NOTE:** This option is only available in Enterprise edition. |
| /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.  
**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. |
This tool performs the following basic functions:

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

**Examples**

The following command removes local node from the demoCache.

```plaintext
removenode demoCache
```

The following command removes node 20.200.21.12 from the demoCache.

```plaintext
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.

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

**29. 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:

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

**Parameters**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which query index will be removed.</td>
</tr>
<tr>
<td>/c /class</td>
<td>Specifies the class for removing query index.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/L /attrib-list</td>
<td>Specifies the attributes for removing from query index ($ separated) e.g.</td>
</tr>
<tr>
<td></td>
<td>CustomerID$Name ...</td>
</tr>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>Specifies the user-id used to authorize the user for this operation. It is</td>
</tr>
<tr>
<td></td>
<td>required in case security is enabled on Cache Server. This user-id must be</td>
</tr>
<tr>
<td></td>
<td>the active directory</td>
</tr>
</tbody>
</table>
| user-id prefixed with the domain name.

**NOTE:** This option is only available in Enterprise edition. |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>/P /password</td>
</tr>
</tbody>
</table>
| 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:

- Remove pre-defined query indexes for the objects.
- 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.

```
```

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
```

### 30. Remove Startup Loader (removestartuploader.exe)

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

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

**Parameters**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>Specifies the name of the cache for which cache loader will be removed.</td>
</tr>
</tbody>
</table>
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:

- Removes pre-configured startup loader.
- 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
```

31. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bridge-name</td>
<td>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.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>/s server-name</td>
<td>Specifies a server name where the NBridge service is running. The default is the local machine.</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies the port if the server channel is not using the default port. The default is 8261 for http and 8260 for tcp channels.</td>
</tr>
<tr>
<td>/U user-id</td>
<td>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. <em>NOTE: This option is only available in Enterprise edition.</em></td>
</tr>
<tr>
<td>/P password</td>
<td>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. <em>NOTE: This option is only available in Enterprise edition.</em></td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

Remarks

This tool performs the following basic functions:

- Start the bridge.
- 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
```

32. 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 server ]
  [ bridge-name ] [ /s server /p port ]
```

Parameters
### Argument

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bridge-name</td>
<td>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.</td>
</tr>
</tbody>
</table>

### Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s server</td>
<td>Specifies a server name where the NBridge service is running. The default is the local machine</td>
</tr>
<tr>
<td>/p port</td>
<td>Specifies the port if the server channel is not using the default port. The default is 8261 for http and 8260 for tcp channels</td>
</tr>
<tr>
<td>/U user-id</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/P password</td>
<td>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. <strong>NOTE: This option is only available in Enterprise edition.</strong></td>
</tr>
<tr>
<td>/G nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

### Remarks

This tool performs the following basic functions:

- Stops the bridge.
- 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
```

### 33. 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>cache-name</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies a server name where the NCache service is running. The default is the local machine</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port if the server channel is not using the default port. The default management port is 8250</td>
</tr>
</tbody>
</table>
| /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:

- Starts the cache on current server node.
- 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
```
34. **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 server ]
[ cache-name ] [ /s server /g graceful-shutdown ]
```

### Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cache-name</td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies a server name where the NCache service is running. The default is the local machine.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port if the server channel is not using the default port. The default management port is 8250</td>
</tr>
<tr>
<td>/g /graceful-shutdown</td>
<td>Specifies if the cache be stopped gracefully. NOTE: This option is only available in Enterprise edition.</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

### Remarks

This tool performs the following basic functions:

- Stops the cache on specified server.
- Stops a cache on specified server.
- 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
```

### 35. 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 server ]
[ enable ] [ /s server /p port ]
```

#### Parameters

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>enable</td>
<td>Enables error and detailed logging</td>
</tr>
<tr>
<td>disable</td>
<td>Disables error and detailed logging</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/s /server</td>
<td>Specifies the NCache server name/ip.</td>
</tr>
<tr>
<td>/p /port</td>
<td>Specifies the port on which NCache server is listening.</td>
</tr>
<tr>
<td>/G /nologo</td>
<td>Suppresses display of the logo banner.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

#### Remarks

This tool performs the following basic functions:

- Enables runtime socket level logging
- 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

36. **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 ]
```

<table>
<thead>
<tr>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Argument</strong></td>
</tr>
<tr>
<td>cache-name</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/n item-count</td>
<td>How many total items you want to add. (default: infinite)</td>
</tr>
<tr>
<td>/i test-case-iterations</td>
<td>How many iterations within a test case (default: 20)</td>
</tr>
<tr>
<td>/d test-case-iteration-delay</td>
<td>How much delay (in seconds) between each test case iteration (default: 0)</td>
</tr>
<tr>
<td>/g gets-per-iteration</td>
<td>How many gets within one iteration of a test case (default: 1)</td>
</tr>
<tr>
<td>/u updates-per-iteration</td>
<td>How many updates within one iteration of a test case (default: 1)</td>
</tr>
<tr>
<td>/m item-size</td>
<td>Specify in bytes the size of each cache item (default: 1024)</td>
</tr>
<tr>
<td>/e sliding-expiration</td>
<td>Specify in seconds sliding expiration (default: 300; minimum: 15)</td>
</tr>
<tr>
<td>/t thread-count</td>
<td>How many client threads (default: 1; maximum: 3)</td>
</tr>
<tr>
<td>/r reporting-interval</td>
<td>Report after this many total iterations (default: 5000)</td>
</tr>
<tr>
<td>/U /user-id</td>
<td>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.</td>
</tr>
<tr>
<td>/P /password</td>
<td>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</td>
</tr>
</tbody>
</table>
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:

- Allow users to perform heavy load on cache and check performance of the cache.
- 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.

```
stress
Gtesttool 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
```

37. 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

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/G /nologo</td>
<td>Suppresses the startup banner and copyright message.</td>
</tr>
<tr>
<td>/?</td>
<td>Displays a detailed help screen.</td>
</tr>
</tbody>
</table>

Remarks

This tool performs the following basic functions:

- Shows the registration details
- Shows evaluation period
- Gives expiry information
Examples

The following command displays registration details.

```
verifylicense
```

The following command displays registration details without displaying logo banner.

```
verifylicense /G
```