

# IBM Informix SQL Administration API Arguments

The following **admin()** and **task()** function arguments are sorted by functional category. The version numbers indicate in which version of Informix each argument was introduced. The **admin()** and **task()** functions take the same arguments, but return different values. The examples shown on this card use the **task()** function. The examples do not show syntax details. Many arguments can take additional alternative or optional arguments. Arguments in italics are variables. See the IBM Informix Administrator's Reference for alphabetized topics about the underlined arguments.

## Backup Management

- Create a backup of database data** 11.7  
task("ontape archive directory level *level*", "location", "block\_size")
- Back up the storage spaces** 11.7  
task("onbar backup whole system level *level*")
- Retain backup generations** 11.7  
task("onsmsync", "-g number\_of\_generations")

## Compression Management

- Compress fragment data** 11.5  
task("fragment compress", "partition\_number")
- Compress table data and optimize storage** 11.5  
task("table compress repack shrink", "table", "database", "owner")
- Estimate the compression of a table** 11.5  
task("table estimate\_compression", "table", "database", "owner")
- Uncompress table data** 11.5  
task("table uncompress", "table", "database", "owner")

## Configuration Parameter Updating

- Set a configuration parameter for a session** 11.5  
task("set onconfig memory", "parameter", "value")
- Set a configuration parameter in the onconfig file** 11.5  
task("set onconfig permanent", "parameter", "value")
- Set LRU tuning status** 11.1  
task("onmode", "wm", "AUTO\_LRU\_TUNING=value min=value, max=value")

## Data, Partition, and Extent Management

- Change index page compression to high** 11.5  
task("set index compression", "partition\_number", "high")
- Check data consistency** 11.1  
task("check data", "partition\_number")
- Check extent consistency** 11.1  
task("check extents", "dbspace\_number")
- Check partition consistency** 11.1  
task("check partition", "partition\_number")

- Force a checkpoint** 11.1  
task("checkpoint", "block")
- Print partition information** 11.1  
task("print partition", "partition\_number")
- Skip a dbspace** 11.1  
task("set dataskip on", "dbspace")
- Start the B-tree scanner** 11.1  
task("onmode", "C", "start", "number")

## Database Management

- Create a database** 11.7  
task("create database with log", "database")
- Delete a database** 11.7  
task("drop database", "database")

## Enterprise Replication Management

- Administer enterprise replication** 11.5  
task("cdr command", "options")

## High Availability Cluster Management

- Archive to set up a secondary server** 11.5  
task("archive fake")
- Convert a secondary server to a primary server** 11.5  
task("ha make primary", "database\_server")
- Log index builds on the primary server** 11.5  
task("ha set ipl on")
- Replicate indexes to secondary servers** 11.5  
task("ha set idxauto on")

- Create an HDR primary server** 11.5  
task("ha set primary", "secondary\_server")
- Create an HDR secondary server** 11.5  
task("ha set secondary", "primary\_server")
- Convert an HDR server into a standard server** 11.5  
task("ha set standard")
- Set data-replication type to primary** 11.5  
task("onmode", "d", "primary", "database\_server")

- Create a remote standalone secondary server** 11.5  
Task("ha rss", "primary\_server")
- Add an RS secondary server to a primary server** 11.5  
task("ha rss add", "secondary\_server")
- Change the password of an RS secondary server** 11.5  
task("ha rss change", "secondary\_server", "password")
- Delete an RS secondary server** 11.5  
task("ha rss delete", "secondary\_server")

- Create a shared-disk primary server** 11.5  
task("ha sds set", "primary\_server")
- Change the SD secondary server timeout** 11.1  
task("ha set timeout", "seconds")
- Convert an SD secondary server to a primary server** 11.1  
task("ha sds primary", "secondary\_server")
- Stop shared-disk replication** 11.1  
task("ha sds clear", "primary\_server")

## Listen Thread Control (SOCTCP or TLITCP)

- Start a listen thread dynamically** 11.5  
task("start listen", "server\_name")
- Stop a listen thread dynamically** 11.5  
task("stop listen", "server\_name")
- Stop and restart a listen thread dynamically** 11.5  
task("restart listen", "server\_name")

## Log Management

- Add a new logical log** 11.1  
task("add log", "dbspace", "size", "count", "after\_current\_flag")
- Change the database logging mode** 11.1  
task("alter logmode", "database", "u")
- Change the physical log** 11.1  
task("alter plog", "dbspace", "size")
- Drop a logical log** 11.1  
task("drop log", "log\_number")
- Switch to the next logical log** 11.1  
task("onmode", "l")

## Memory Management

- Add a buffer pool** 11.1  
task("add bufferpool", "page\_size", "buffers", "lrus", "max\_dirty", "min\_dirty")
- Add shared memory** 11.1  
task("add memory", "size")
- Add a shared-memory segment** 11.1  
task("onmode", "a", "size")
- Force residency of shared memory** 11.1  
task("onmode", "r")
- Free unused memory segments** 11.1  
task("onmode", "E")
- Unlock resident memory** 11.1  
task("onmode", "n")

## Mirroring Management

- Add a mirror chunk** 11.1  
task("add mirror", "spacename", "path", "offset", "mirror\_path", "mirror\_offset")
- Start mirroring a storage space** 11.1  
task("start mirroring", "space")
- Stop mirroring a storage space** 11.1  
task("stop mirroring", "space")

## Parallel Database Query (PDQ) Management

- Set maximum number of decision-support queries** 11.1  
task("onmode", "Q", "queries")
- Set maximum number of decision-support scans** 11.1  
task("onmode", "S", "scans")
- Set PDQ priority** 11.1  
task("onmode", "D", "max\_priority")
- Temporarily change memory for parallel queries** 11.1  
task("onmode", "M", "size")



## Server Mode Switching

- 11.1 Switch the database server to administration mode  
task("onmode", "j")
- 11.1 Switch the database server to multi-user mode  
task("onmode", "m")

## Space Management

- 11.1 Add a new chunk  
task("add\_chunk", "space", "path", "size", "offset")
- 11.1 Change chunk status to online or offline  
task("alter\_chunk\_online", "space", "path", "offset")
- 11.1 Create a blobspace  
task("create\_with\_check\_blobspace", "blobspace", "path", "size", "offset", "page\_size")
- 11.1 Create a chunk  
task("create\_chunk", "space", "path", "size", "offset")
- 11.1 Create a dbspace  
task("create\_dbspace", "dbspace", "path", "size", "offset", "page\_size", "first\_extsize", "next\_extsize")
- 11.1 Create an sbspace  
task("create\_sbspace", "sbspace", "path", "size", "offset")
- 11.1 Create a temporary dbspace  
task("create\_tempdbspace", "tempdbspace", "path", "size", "offset", "page\_size", "first\_extsize", "next\_extsize")
- 11.1 Drop a blobspace  
task("drop\_blobspace", "blobspace")
- 11.1 Drop a chunk  
task("drop\_chunk", "space", "path", "offset")
- 11.1 Drop a dbspace  
task("drop\_dbspace", "dbspace")
- 11.1 Drop an sbspace  
task("drop\_sbspace", "sbspace")
- 11.1 Drop a temporary dbspace  
task("drop\_tempdbspace", "tempdbspace")
- 11.1 Log an sbspace  
task("set\_sbspace\_logging\_on", "sbspace")
- 11.1 Mark a disabled dbspace as down  
task("onmode", "Q")
- 11.1 Release unreferenced smart large objects  
task("clean\_sbspace", "sbspace")
- 11.1 Rename a storage space  
task("rename\_space", "space", "new\_name")
- 11.1 Set the average size of smart large objects  
task("set\_sbspace\_avg\_lo\_size", "sbspace", "size")
- 11.1 Track access time task  
task("set\_sbspace\_accesstime\_on", "sbspace")

## SQL Statement Cache Management

- 11.1 Enable the SQL statement cache  
task("onmode", "e", "enable")
- 11.1 Reset statement cache attributes  
task("onmode", "W", "STMT\_CACHE\_HITS", "hits")

## SQL Tracing Management

- 11.1 Set tracing for a database  
task("set\_sql\_tracing\_database\_add", "database")
- 11.1 Set tracing globally  
task("set\_sql\_tracing\_on", "number\_traces", "trace\_size", "level", "mode")
- 11.1 Set tracing on globally for a user session  
task("set\_sql\_user\_tracing\_on", "session")
- 11.1 Set tracing for a session  
task("set\_sql\_tracing\_session", "on")
- 11.1 Set tracing on for a user  
task("set\_sql\_tracing\_user\_add", "user")

## Storage Provisioning

- 11.7 Expand a space  
task("modify\_space\_expand", "space", "size")
- 11.7 Modify the create size or extend size of a space  
task("modify\_space\_sp\_sizes", "space", "new\_create\_size", "New\_extend\_size")
- 11.7 Create a blobspace from the storage pool  
task("create\_blobspace\_from\_storagepool", "blobspace", "size")
- 11.7 Return space from an empty blobspace to the storage pool  
task("drop\_blobspace\_to\_storagepool", "blobspace")
- 11.7 Create a chunk from the storage pool  
task("create\_chunk\_from\_storagepool", "space", "size")
- 11.7 Return space from an empty chunk to the storage pool  
task("drop\_chunk\_to\_storagepool", "space", "path", "offset")
- 11.7 Extend the size of a chunk  
task("modify\_chunk\_extend", "chunk", "extend\_amount")
- 11.7 Mark a chunk as not extendable  
task("modify\_chunk\_extendable\_off", "chunk")
- 11.7 Mark a chunk as extendable  
task("modify\_chunk\_extendable", "chunk")
- 11.7 Create a dbspace from the storage pool  
task("create\_dbspace\_from\_storagepool", "dbspace", "size")
- 11.7 Create a temporary dbspace from the storage pool  
task("create\_tempdbspace\_from\_storagepool", "tempdbspace", "size")
- 11.7 Return space from an empty dbspace to the storage pool  
task("drop\_dbspace\_to\_storagepool", "dbspace")
- 11.7 Return space from an empty temporary dbspace to the storage pool  
task("drop\_tempdbspace\_to\_storagepool", "dbspace")

- 11.7 Create an sbspace from the storage pool  
task("create\_sbspace\_from\_storagepool", "sbspace", "size")
- 11.7 Create a temporary sbspace from the storage pool  
task("create\_tempsbspace\_from\_storagepool", "tempsbspace", "size")
- 11.7 Return space from an empty sbspace to the storage pool  
task("drop\_sbspace\_to\_storagepool", "sbspace")
- 11.7 Return space from an empty temporary sbspace to the storage pool  
task("drop\_tempsbspace\_to\_storagepool", "sbspace")
- 11.7 Add a storage pool entry  
task("storagepool\_add", "path", "begin\_offset", "total\_size", "chunk\_size", "priority")
- 11.7 Modify a storage pool entry  
task("storagepool\_modify", "entry\_id", "new\_total\_size", "new\_chunk\_size", "new\_priority")
- 11.7 Delete one storage pool entry  
task("storagepool\_delete", "entry\_id")
- 11.7 Delete all storage pool entries  
task("storagepool\_purge\_all")

## Miscellaneous Process Management

- 11.1 Add virtual processors  
task("onmode", "p", "number", "vpclass")
- 11.1 Enable query plan measurements for a session  
task("onmode", "Y", "session", "1")
- 11.7 Display directory or file information  
task("print\_file\_info", "filepath")
- 11.1 Move the sysadmin database  
task("reset\_sysadmin", "dbspace")
- 11.1 Print an error message  
task("print\_error", "number")
- 11.1 Start the scheduler  
task("scheduler\_start")
- 11.1 Terminate a distributed transaction  
task("onmode", "Z", "address")
- 11.1 Terminate a user session  
task("onmode", "z", "session")

# Quick Reference:

## SQL Administration API

IBM® Informix®  
Version 11.70.xC2  
SC27-3813-00

For an online version of this information with links to full argument descriptions, see the SQL Administration API Portal:  
[Http://publib.boulder.ibm.com/infocenter/idshelp/v117/topic/com.ibm.adref.doc/ids\\_sapi\\_095.htm](http://publib.boulder.ibm.com/infocenter/idshelp/v117/topic/com.ibm.adref.doc/ids_sapi_095.htm)

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Assess the usability and consumability of IBM Informix database servers by taking this survey:  
[Http://www.ibm.com/software/data/info/consumability-survey](http://www.ibm.com/software/data/info/consumability-survey)

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