

Quick Reference:

SQL Administration API

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The following **admin()** and **task()** function arguments are sorted by privilege group and functional area. 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 that are shown on this card use the **task()** function. The examples do not show syntax details. Many arguments can take more alternative or optional arguments. Arguments in italics are variables. See the *IBM Informix Administrator's Reference* for alphabetized topics about the underlined arguments: <https://ibm.biz/Bdx8yD>
Send comments or suggestions to docinf@us.ibm.com.

► BAR Privilege Group

| | |
|--|------|
| Perform an unrecorded backup | 11.5 |
| task("archive fake") | |
| Create a backup of database data | 11.7 |
| task("ontape archive directory level <i>level</i> ", "location", "block_size") | |
| Back up the storage spaces | 11.7 |
| task("onbar backup whole system level <i>level</i> ") | |
| Retain backup generations | 11.7 |
| task("onsmsync", "-g number_of_generations") | |

► FILE Privilege Group

| | |
|--|------|
| Display the status of a message log file | 11.1 |
| task("file status", "file_path") | |
| Rotate the message log file | 11.7 |
| task("message log rotate", "file_path", "maximum_version") | |
| Delete a message log file | 11.7 |
| task("message log delete", "file_path") | |
| Delete the contents of a message log file | 11.7 |
| task("message log truncate", "file_path") | |
| Display directory or file information | 11.7 |
| task("print file info", "file_path") | |

► GRANT Privilege Group

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|---|------|
| Grant privileges to run SQL administration API commands | 12.1 |
| task("grant admin", "user_name", "privilege_group") | |
| Revoke privileges to run SQL administration API commands | 12.1 |
| task("revoke admin", "user_name", "privilege_group") | |

► HA Privilege Group

| | |
|---|------|
| Convert a secondary server to a primary server | 11.5 |
| task("ha make 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") | |

| | |
|---|------|
| Stop shared-disk replication | 11.5 |
| task("ha sds clear", "primary_server") | |
| Convert an SD secondary server to a primary server | 11.5 |
| task("ha sds primary", "secondary_server") | |
| Create a shared-disk primary server | 11.5 |
| task("ha sds set", "primary_server") | |
| Replicate indexes to secondary servers | 11.5 |
| task("ha set idxauto on") | |
| Log index builds on the primary server | 11.5 |
| task("ha set ipl on") | |
| Define an HDR primary server | 11.5 |
| task("ha set primary", "secondary_server") | |
| Define 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") | |
| Change the SD secondary server timeout | 11.5 |
| task("ha set timeout", "seconds") | |
| Set data-replication type to primary | 11.5 |
| task("onmode", "d", "primary", "database_server") | |

► MISC Privilege Group

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|------------------------------------|------|
| onstat | |
| Monitor the database server | 12.1 |
| task("onstat", "option_name") | |

Configuration parameters

| | |
|---|------|
| Export configuration parameter values | 12.1 |
| task("export config", "file_path") | |
| Import configuration parameter values | 12.1 |
| task("import config", "file_path") | |
| Modify configuration parameters | 12.1 |
| task("modify config", "configuration_parameter_name", "new_value") | |
| Permanently update a configuration parameter | 11.1 |
| task("onmode", "wf", "configuration_parameter_name=new_value") | |
| Temporarily update a configuration parameter | 11.1 |
| task("onmode", "wm", "configuration_parameter_name=new_value") | |
| Enable LRU tuning | 11.1 |
| task("onmode", "wm", "AUTO_LRU_TUNING=1") | |
| Revert configuration parameter value | 12.1 |
| task("reset config", "configuration_parameter_name") | |
| Revert all dynamically updatable configuration parameter values | 12.1 |
| task("reset config all") | |
| Temporarily change a configuration parameter | 11.5 |
| task("set onconfig memory", "configuration_parameter_name", "new_value") | |
| Permanently change a configuration parameter | 11.5 |
| task("set onconfig permanent", "configuration_parameter_name", "new_value") | |

Data, partitions, and extents

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|---|------|
| 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") | |
| Create the demonstration database | 12.1 |
| task("create dbaccessdemo", "database_name", "dbspace", "-log", "-nots") | |
| Start the B-tree scanner | 11.1 |
| task("onmode", "C", "start", "start_count") | |
| Force a checkpoint | 11.1 |
| task("onmode", "c", "hard") | |
| Print partition information | 11.1 |
| task("print partition", "partition_number") | |
| Start skipping a dbspace | 11.1 |
| task("set dataskip on", "dbspace") | |
| Change index page compression to high | 11.5 |
| task("set index compression", "partition_number", "high") | |

Listen threads

| | |
|--|------|
| Restart a listen thread dynamically | 11.5 |
| task("restart listen", "server_name") | |
| Start a listen thread dynamically | 11.5 |
| task("start listen", "server_name") | |
| Stop a listen thread dynamically | 11.5 |
| task("stop listen", "server_name") | |

Message log

| | |
|--|------|
| Display status of a message log file | 11.7 |
| task("file status", "file_path") | |
| Rotate the message log file | 11.7 |
| task("message log rotate", "file_path", "maximum_version") | |
| Delete a message log file | 11.7 |
| task("message log delete", "file_path") | |
| Delete the contents of a message log file | 11.7 |
| task("message log truncate", "file_path") | |

Memory

| | |
|---|------|
| Add a buffer pool | 11.1 |
| task("add bufferpool", "page_size", "buffers", "lrus") | |
| Increase shared memory | 11.1 |
| task("add memory", "memory_size") | |
| Add a shared-memory segment | 11.1 |
| task("onmode", "a", "memory_size") | |
| Free unused memory segments | 11.1 |
| task("onmode", "E") | |
| Unlock resident memory | 11.1 |
| task("onmode", "n") | |
| Force residency of shared memory | 11.1 |
| task("onmode", "r") | |
| Start automatic low memory management settings | 11.5 |
| task("scheduler lmm enable", "LMM START THRESHOLD", "start_threshold_size") | |
| Stop automatic low memory management | 11.5 |
| task("scheduler lmm disable") | |

PDQ

| | |
|---|------|
| Set PDQ priority | 11.1 |
| task("onmode", "D", "max_priority") | |
| Temporarily change memory for parallel queries | 11.1 |
| task("onmode", "M", "memory_size") | |

| | |
|---|------|
| 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") | |

Server mode

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

SQL statement cache

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|--|------|
| Enable the SQL statement cache | 11.1 |
| task("onmode", "e", "enable") | |
| Reset statement cache attributes | 11.1 |
| task("onmode", "W", "STMT_CACHE_HITS", "hits") | |

Other administrative tasks

| | |
|--|------|
| Change the database logging mode to unbuffered | 11.1 |
| task("alter logmode", "database_name", "u") | |
| Create the demonstration database | 11.1 |
| task("create dbaccessdemo", "database_name", "dbspace", "-log", "-nots") | |
| Enable the SQL statement cache | 11.1 |
| task("onmode", "e", "enable") | |
| Switch to the next logical log | 11.1 |
| task("onmode", "l") | |
| Add or remove virtual processors | 11.1 |
| task("onmode", "p", "number", "vpclass") | |
| Change query plan measurements for a session | 11.1 |
| task("onmode", "Y", "session_id", "1", "file_name") | |
| Terminate a user session | 11.1 |
| task("onmode", "z", "session_id") | |
| Terminate a distributed transaction | 11.1 |
| task("onmode", "Z", "address") | |
| Print an error message | 11.1 |
| task("print error", "error_number") | |
| Move the sysadmin database | 11.1 |
| task("reset sysadmin", "dbspace") | |
| Stop or start the scheduler | 12.1 |
| task("scheduler start") | |

► MONITOR Privilege Group

| | |
|--|------|
| Administer Enterprise Replication | 12.1 |
| task("cdr command_name", "option_name") | |
| Display the status of a message log file | 11.1 |
| task("file status", "file_path") | |
| Estimate index compression | 12.1 |
| task("index estimate compression", "index_name", "database_name", "owner") | |
| Print an error message | 11.1 |
| task("print error", "error_number") | |
| Monitor the database server | 12.1 |
| task("onstat", "option_name") | |
| Compress table data and optimize storage | 11.5 |
| task("table compress repack shrink", "table_name", "database_name", "owner") | |

► REPLICATION Privilege Group

Administer Enterprise Replication 11.5
task("cdr_command_name", "option_name")

► SQL Privilege Group

Create a database 11.7
task("create_database with log", "database_name")

Create the demonstration database 12.1
task("create_dbaccessdemo", "database_name", "dbspace", "-log", "-nots")

Delete a database 11.7
task("drop_database", "database_name")

Print an error message 11.1
task("print_error", "error_number")

► SQLTRACE Privilege Group

Set tracing globally 11.1
task("set_sql_tracing on", "number_traces", "trace_size", "level", "mode")

Set tracing for a database 11.5
task("set_sql_tracing_database add", "database_name")

Set tracing for a session 11.1
task("set_sql_tracing_session", "on")

Set tracing on for a user 11.5
task("set_sql_tracing_user add", "user_name")

Set tracing on globally for a user session 11.1
task("set_sql_user_tracing on", "session_id")

► STORAGE Privilege Group

Automatic table storage location

Add a dbspace to the dbspace list 12.1
task("autolocate_database add", "database_name", "dbspace")

Add all dbspaces to the dbspace list 12.1
task("autolocate_database anywhere", "database_name")

Specify dbspaces for automatic location and fragmentation 12.1
task("autolocate_database", "database_name", "dbspace_list")

Disable automatic fragmentation for a database 12.1
task("autolocate_database off", "database_name")

Remove a dbspace from the dbspace list 12.1
task("autolocate_database remove", "database_name", "dbspace")

Compression

Optimize the storage of B-tree indexes 12.1
task("index_compress repack shrink", "index_name", "database_name", "owner")

Estimate index compression 12.1
task("index_estimate_compression", "index_name", "database_name", "owner")

Compress fragment data 11.5
task("fragment_compress", "partition_number")

Compress table data and optimize storage 11.5
task("table_compress repack shrink", "table_name", "database_name", "owner")

Estimate the compression of a table 11.5
task("table_estimate_compression", "table_name", "database_name", "owner")

Uncompress table data 11.5
task("table_uncompress", "table_name", "database_name", "owner")

Remove compression dictionaries 11.5
task("compression_purge_dictionary", "date")

Logical and physical logs

Add a new logical log 11.1
task("add_log", "dbspace", "size", "count", "after_current_flag")

Change the database logging mode to unbuffered 11.1
task("alter_logmode", "database_name", "u")

Change the physical log 11.1
task("alter_plog", "dbspace", "phys_log_size")

Drop a logical log 11.1
task("drop_log", "log_number")

Mirroring

Add a mirror chunk 11.1
task("add_mirror", "space_name", "path_name", "offset", "mirror_path", "mirror_offset")

Start mirroring a storage space 11.1
task("start_mirroring", "space_name")

Stop mirroring a storage space 11.1
task("stop_mirroring", "space_name")

Storage spaces

Add a new chunk 11.1
task("add_chunk", "space_name", "path_name", "disk_size", "offset")

Change chunk status to online 11.1
task("alter_chunk_online", "space_name", "path_name", "offset")

Release unreferenced smart large objects 11.1
task("clean_sbspace", "sbspace")

Create a blobspace 11.1
task("create_with_check_blobspace", "blobspace", "path_name", "initial_chunk_size")

Create a chunk 11.1
task("create_chunk", "space_name", "path_name", "disk_size")

Create the demonstration database 12.1
task("create_dbaccessdemo", "database_name", "dbspace", "-log", "-nots")

Create a dbspace 11.1
task("create_dbspace", "dbspace", "path_name", "initial_chunk_size", "offset")

Create an sbspace 11.1
task("create_sbspace", "sbspace", "path_name", "initial_chunk_size", "offset")

Create an sbspace that tracks access time 11.7
task("create_sbspace_with_accesstime", "sbspace", "path_name", "initial_chunk_size", "offset")

Create an sbspace with transaction logging 11.7
task("create_sbspace_with_log", "sbspace", "path_name", "initial_chunk_size")

Create a temporary dbspace 11.1
task("create_tempdbspace", "tempdbspace", "path_name", "initial_chunk_size")

Create a temporary sbspace 11.7
task("create_tempsbspace", "tempsbspace", "path_name", "initial_chunk_size")

Drop a blobspace 11.1
task("drop_blobspace", "blobspace")

Drop a chunk 11.1
task("drop_chunk", "space_name", "path_name", "offset")

Drop a dbspace 11.1
task("drop_dbspace", "dbspace")

Drop an sbspace 11.1
task("drop_sbspace", "sbspace")

Drop a temporary dbspace 11.1
task("drop_tempdbspace", "tempdbspace")

Mark a disabled dbspace as down 11.1
task("onmode", "O")

Print an error message 11.1
task("print_error", "error_number")

Rename a storage space 11.1
task("rename_space", "space_name", "new_name")

Change the status of a chunk 11.1
task("set_chunk_online", "space_name", "path_name", "offset")

Control access time tracking 11.1
task("set_sbspace_accesstime on", "sbspace")

Set the average size of smart large objects 11.1
task("set_sbspace_avg_lo_size", "sbspace", "average_size")

Log an sbspace 11.1
task("set_sbspace_logging on", "sbspace")

Storage provisioning

Create a blobspace from the storage pool 11.7
task("create_blobspace_from_storagepool", "blobspace", "initial_chunk_size")

Create a chunk from the storage pool 11.7
task("create_chunk_from_storagepool", "space_name", "initial_chunk_size")

Create a dbspace from the storage pool 11.7
task("create_dbspace_from_storagepool", "dbspace", "initial_chunk_size")

Create a plogspace 12.1
task("create_plogspace", "plogspace", "path_name", "chunk_size", "offset")

Create an sbspace from the storage pool 11.7
task("create_sbspace_from_storagepool", "sbspace", "initial_chunk_size")

Create a temporary dbspace 12.1
task("create_tempdbspace", "tempdbspace", "path_name", "initial_chunk_size")

Create a temporary sbspace from the storage pool 11.1
task("create_tempsbspace_from_storagepool", "tempsbspace", "initial_chunk_size")

Create a temporary dbspace from the storage pool 11.7
task("create_tempdbspace_from_storagepool", "tempdbspace", "initial_chunk_size")

Return space from an empty blobspace to the storage pool 11.7
task("drop_blobspace_to_storagepool", "blobspace")

Return space from an empty chunk to the storage pool 11.7
task("drop_chunk_to_storagepool", "space_name", "path_name", "offset")

Return space from an empty dbspace to the storage pool 11.7
task("drop_dbspace_to_storagepool", "dbspace")

Drop the plogspace 12.1
task("drop_plogspace")

Return space from an empty sbspace to the storage pool 11.7
task("drop_sbspace_to_storagepool", "sbspace")

Return space from an empty temp. dbspace to the storage pool 11.7
task("drop_tempdbspace_to_storagepool", "tempdbspace")

Return space from an empty temp. sbspace to the storage pool 11.7
task("drop_tempsbspace_to_storagepool", "tempsbspace")

Extend the size of a chunk 11.7
task("modify_chunk_extend", "chunk_number", "extend_amount")

Mark a chunk as not extendable 11.7
task("modify_chunk_extendable off", "chunk_number")

Mark a chunk as extendable 11.7
task("modify_chunk_extendable", "chunk_number")

Expand the size of a space 11.7
task("modify_space_expand", "space_name", "minimum_size")

Modify the create size or extend size of a space 11.7
task("modify_space_sp_sizes", "space_name", "new_create_size", "new_extend_size")

Add a storage pool entry 11.7
task("storagepool_add", "path_name", "begin_offset", "total_size", "chunk_size", "priority")

Modify a storage pool entry 11.7
task("storagepool_modify", "entry_id", "new_total_size", "new_chunk_size", "new_priority")

Delete one storage pool entry 11.7
task("storagepool_delete", "entry_id")

Delete all storage pool entries 11.7
task("storagepool_purge_all")

► TENANT Privilege Group

Create a tenant database 12.1
task("tenant_create", "database_name", "dbspace", "sbspace", "vpclass", "tempdbspace", "locks", "log_mode", "locale")

Drop a tenant database 12.1
task("tenant_drop", "database_name")

Modify tenant database properties 12.1
task("tenant_update", "database_name", "dbspace", "sbspace", "vpclass")

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