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| Intel |
| ISC Debug Guide |
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# Debug Options Available in ISC

ISC allows for some debug information like executing a query on the database to retrieve information, executing a query on the database to modify information or for getting information on the locks held by the lock manager.

These debug features can be accessed either through the CLI directly if the server is not running or through rest calls via the ISC CLI if the server is running.

If querying for debug information while the server is running (which uses REST internally), you will need to enable debug mode by modifying one of the configuration files in the ISC home folder. This is to prevent unauthorized access to these API’s.

Although the debug API’s can be called ONLY from the same host hosting the ISC server, using SSH tunneling you can spoof the host. So having a two-step process to enable querying the debug information prevents unauthorized access.

## Enabling Debug Mode (Required if you want to debug while server is running without restart)

To enable debug mode on ISC you need modify the “*vmidcServer.conf*” file to add another property with the name and value

devMode=true

You can then restart the server and the debug api’s will be accessible while the server is running.

If you don’t want to restart the server, you can use following curl command to dynamically have this property take effect.

curl --url 'https://localhost:8090/api/server/v1/serverDebug/reload' -k -X PUT

After this step, you will be able to query/execute update/get lock information even while server is running.

## Query Database

To query ISC database you can use the ISC CLI

./vmidc.sh -q 'select \* from user'

## Execute Update on Database

To execute update on ISC database you can use the ISC CLI

./vmidc.sh -e 'update user set phone=899 where id=1'

## Displaying currently held Locks by Lock Manager

To display currently held locks by the lock manager use the following command.

./vmidc.sh –l

## Displaying REST Client Requests and Responses

To display all Request and responses processed by REST Base client you can use the following command.

./vmidc.sh -rl true

Note that the request and responses can get very verbose, so this is intended to be turned on for a short while for debugging purposes only. Leaving this setting turned on for a long time might cause the log files to overflow.

To disable the logging use the following command. The command assumes anything passed in other than true is false and disables the logging for future requests/responses

./vmidc.sh -rl false

There are equivalent REST API’s for the above, but that is beyond the scope of this document.