

Pocket Reference Guide – ScaleArc for SQL Server 3.2

Application Programming Interface (API) GUI

ScaleArc provides an API GUI through the ScaleArc UI under **Settings** → **API**



API GUI Features

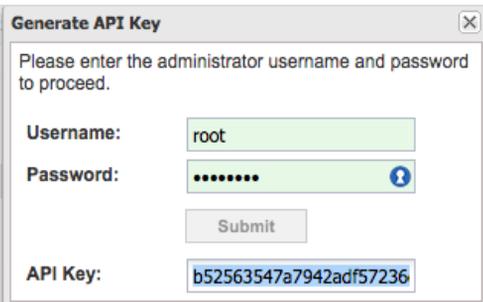
- ① **API call drop down** – used for selecting a particular call
- ② **GET APIKey** – used to unlock the apikey for use within the API utility
- ③ Request method pushbutton for **GET, ADD, UPDATE, and DELETE**
- ④ The **-ID-** field population button
- ⑤ **EXECUTE** button
- ⑥ **CURL CALL** tab with text editing capabilities
- ⑦ **FORM** tab that generates a “fill in the blank” form for all command parameters
- ⑧ **RESULT** tab that displays the JSON result returned after executing an API command

Show API KEY or Generate API KEY

ScaleArc provides the API key in the UI on the Settings → System Settings → System Config API Key - API key is a unique identifier generated by ScaleArc after successful authentication. A valid API key is required for all API calls.



Both Show API Key and Generate API Key will require an administrator-level login to retrieve.



About ScaleArc’s API GUI

- ScaleArc has a RESTful API and operates in a distributed network.
- JavaScript Object Notation ([JSON](#)) is used to pass command parameters and execution results between the client (cURL or PowerShell) and the server (ScaleArc).

API Security Advisory

Anyone with network access to your environment and a valid API key may execute ScaleArc REST commands. Please keep these keys confidential and secure.

- The ScaleArc API Key is a hash, based on the login/password, and can be made common across appliances so long as the credentials are the same.
- Commands contain parameters denoted by `<param>` in the JSON body.
- ScaleArc has hundreds of API calls.

PowerShell API Access

- Read Query** Invoke-RestMethod -Method GET -Uri <URL>?apikey
- Add Query** Invoke-RestMethod -Method POST -Uri <URL> -Body '{params}'
- Update Query** Invoke-RestMethod -Method PUT -Uri <URL> -Body '{params}'
- Delete Query** Invoke-RestMethod -Method Delete -Uri <URL>?apikey

To format returned value in readable format, pipe the output to Format-Custom

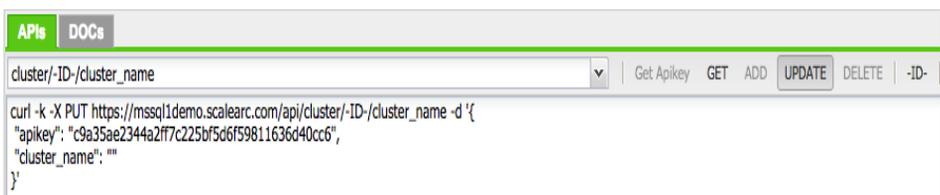
CURL API Access

- Read Query** curl -k -X GET <URL>?apikey
- Add Query** curl -k -X POST <URL> -d '{params}'
- Update Query** curl -k -X PUT <URL> -d '{params}'
- Delete Query** curl -k -X DELETE <URL>?apikey

To format returned value in readable format, pipe the output to python-m json.tool

ScaleArc has 100s of useful API calls. The full list can be found within the UI using the steps above. This list includes the top 10 API calls.

1. Create a cluster
2. Add / Delete servers
3. Marking server online / offline
4. Enable / Disable cache feature
5. Add cache rules
6. Delete cache rules
7. Get HA status
8. Add virtual IPs
9. Modify Cluster Advance settings
10. Add Firewall rules



Call	Method	Parameters	Description
/api/system/show_api_key	POST	Username Password apikey="abc"	Get the API Key from the ScaleArc system
/api/cluster/-ID-	GET DELETE	apikey	Fetch status of a given cluster
/api/cluster/-ID-/cache_rules	GET PUT POST DELETE	apikey cache_rules [{ pattern ttl status compression_status order}]	Retrieve, Add, Modify or Delete Cache rules for a given cluster
/api/cluster/-ID-/server/-ID-	GET POST DELETE	apikey mark_server_status orig_ip server_id server_idle_connection_timeout server_ignore_lag_time server_ip server_max_concurrent_connections server_port server_replication_lag_threshold server_role servicename servicename_radio timetowait	Get information, update configuration, or remove a given server from a given cluster
/api/cluster/-ID-/advanced_settings	GET	apikey	Get advanced cluster settings
/api/events	GET	apikey	Get a list of current unacknowledged events that have occurred on the ScaleArc instance
/api/cluster/-ID-/connection_reset	GET PUT	apikey connection_reset	Enable connection multiplexing on connection reset flag in connection-pooled applications.
/api/cluster/-ID-/database/-ID-/pattern/-ID-/cache_manager/delete	POST	apikey	Delete the given cache rule
/api/cluster/-ID-/database/-ID-/storedprocedure_rules	GET PUT POST DELETE	cache_rules [{ pattern ttl status compression_status order}]	Retrieve, add, modify, or delete a stored-procedure cache. Caution: DELETE will remove all stored procedure cache for the given cluster and database
/api/cluster/-ID-/database/-ID-/write_ignore_rules	GET PUT POST DELETE	apikey writeignore_rules [{ rule status}]	Retrieve a list of, add, update, or delete a write-ignore rule.