ScaleArc™

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.

Generate API Key

Please enter the administrator username and password to proceed.

Username: root
Password: ••••••••
API Key: b52563547a7942adf57236
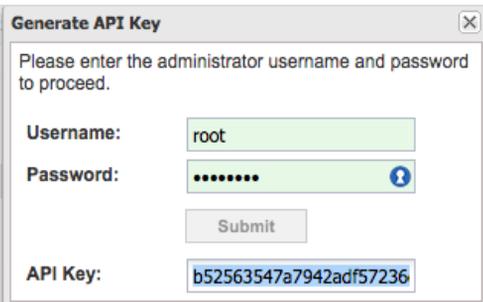
About ScaleArc's API GUI

- 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

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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


```
curl -k -X PUT https://mssql1demo.scalearc.com/api/cluster/-ID-/cluster_name -d '{
   "apikey": "c9a35ae2344a2ff7c225bf5d6f59811636d40cc6",
   "cluster_name": ""
}'
```
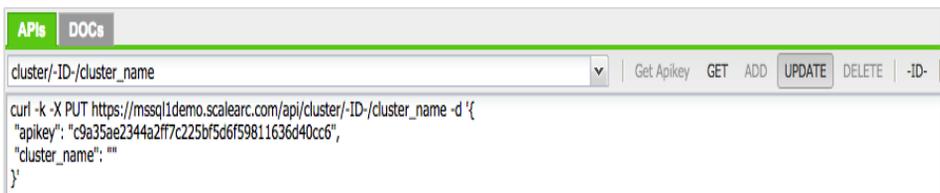
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DevOps Pocket Reference Guide – ScaleArc for SQL Server 3.2

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	POST	apikey cluster_name cluster_inbound_ip cluster_inbound_port cluster_outbound_ip cluster_outbound_port cluster_read_write_split cluster_lb_type cluster_started cluster_server_username cluster_server_password cluster_advanced_settings Provider_type enableClientCert validateClient validateServer cluster_servers [server_ip server_port server_role server_max_concurent_connections server_idle_connection_timeout mark_server_status]	Create a cluster from scratch. You can add more than one server by specifying more servers in the cluster_servers parameter.
/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_concurent_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 details
api/events	GET	apikey	Get a list of current unacknowledged events that have occurred on the ScaleArc instance

For additional information or to download any of the ScaleArc guides please visit http://support.scalearc.com/

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API Quick Start Here