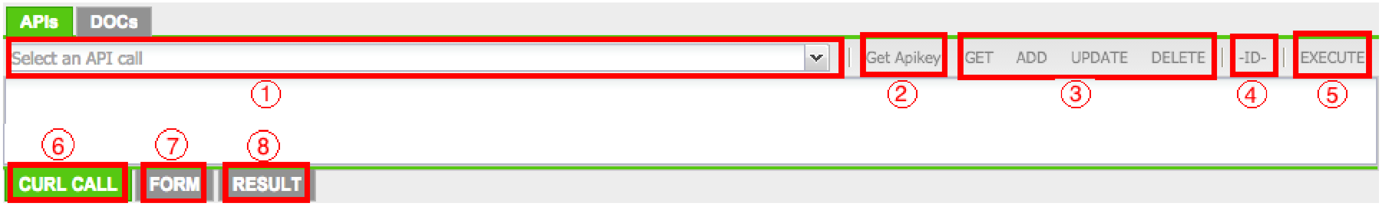
Pocket Reference Guide – ScaleArc for SQL Server 3.2

Application Programming Interface (API) GUI

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

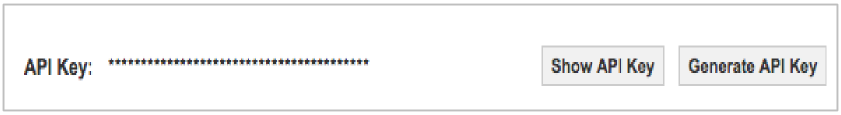


API GUI Features

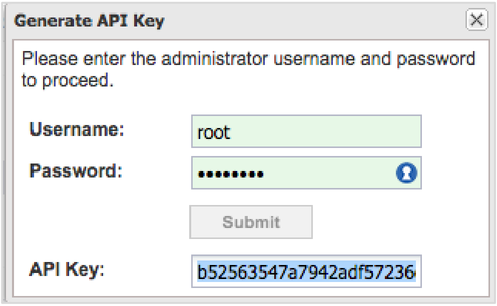
① **API call drop down** – used for selecting a particular call
② **GET APIKey** – used to unlock the apikey for use within the API utility
③ Request method pushbutton for **GET**, **ADD**, **UPDATE**, and **DELETE**
④ The **-ID-** field population button
⑤ **EXECUTE** button
⑥ **CURL CALL** tab with 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.


API Key: **

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



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

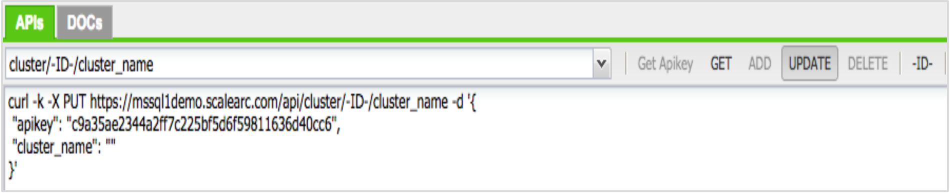
CURL API Access

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

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": ""
}'
```

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

ScaleArc

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Call	Method	Parameters	Description
/api/system/show_api_key	POST	Username Password apikey="abc"	Get the API Key from the ScaleArc system
api/events	GET	apikey	Get a list of current unacknowledged events that have occurred on the ScaleArc instance
/api/network/dns	GET POST PUT DELETE	apikey primary_dns secondary_dns search_domain	Update DNS information for ScaleArc
/api/network/hostname	GET PUT	apikey hostname	Retrieve or update hostname of the machine ScaleArc is running on
/api/network/default_gateway	GET UPDATE DELETE	apikey default_gateway	Retrieve, modify, or delete the default gateway information
/api/network/interfaces	GET	apikey	Get a list of the active network interfaces on the ScaleArc machine – includes IP addresses and VIPs
/api/network/interfaces/nic	PUT POST DELETE	apikey ipAddress netMaskAddress	Add a NIC configuration to ScaleArc
/api/system/ntp_server	GET PUT	apikey system_ntp_server	Update NTP Server information
/api/system/uptime	GET	apikey	Get the system uptime information
/api/tcpdump/start	POST	apikey mode cluster clusterName Host hostPort Custom numberOfFiles sizeOfFiles Delay Duration Rolling packetSize encrypt logs	Start a TCP dump for a given interface and port
/api/tcpdump/stopall	PUT	apikey	Stop all tcpdumps that are currently running on the system