CONFIGURATION GUIDES › ADMINISTRATION & SECURITY

REST API Calls Using Token-Based Authentication

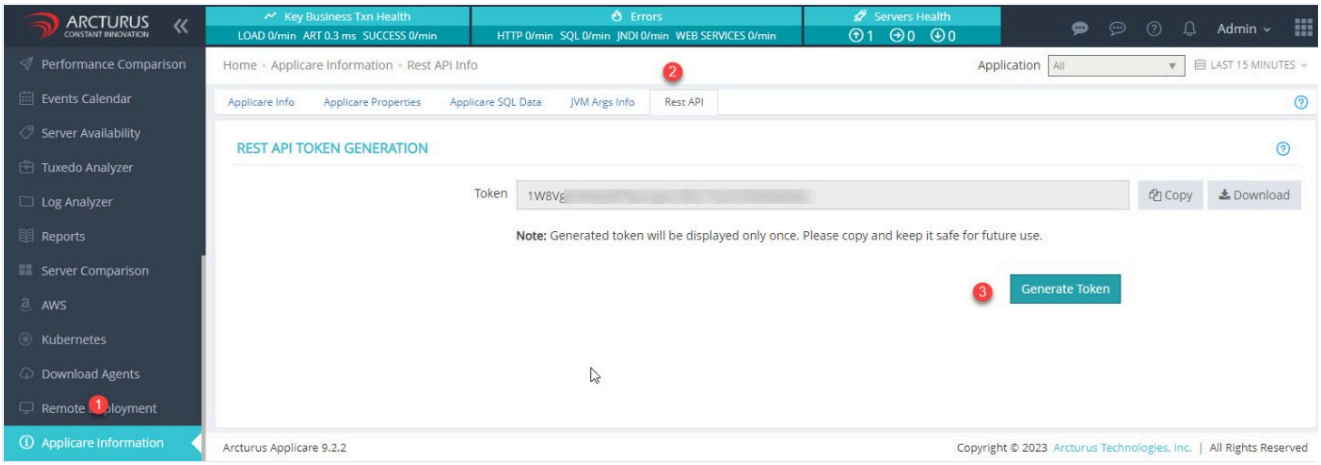
Applicare 9.2 · Updated September 4, 2024 · **Pending technical review**

To access data via the REST API, generate a API token in Applicare and include it in your request.

Token Generation

Navigate to Menu> Applicare Information > Rest API and click the **Generate Token** button. The newly generated token will appear in the Token field. This token is shown only once, So be sure to copy and securely store it for future use. The Controller saves the token in an encrypted format. **Once a new token is generated old token becomes invalid.**

REST APIs retrieve details from the controller



Authentication - API Key Authentication.

Token - One token per controller.

Token Validity - The token expires either when a new token is issued or if the Applicare license expires. After renewing the license, the existing token will remain valid.

Request content details

```yaml
Method Type: POST
Content-Type: application/json
REST_API_URL: Controller_Protocol://Controller_IP:Controller_Port/applicare/restapi
Header: X-API-Key: TOKEN_VALUE
REQUEST_BODY: REST API details to fetch
CA_CERTIFICATE_FILE: For SSL Certificate
```

Response content details

```
TEXT
Content-Type: application/json
```

```
TEXT
Success Response
{"status":"success","details":[{"name": "Google","state": "Failed"}]}

Failed Response
{"status":"error","details":[{"error": "Unauthorized. Token is missing or invalid"}]}

status – It displays the response is success or failure
details – Response message (JSON Array)
```

CURL Syntax

HTTP:

curl -H "X-API-Key: **TOKEN_VALUE**" -H "Content-Type: application/json" -X POST -d **REQUEST_BODY REST_API_URL**

HTTPS:

curl --cacert **CA_CERTIFICATE_FILE** -H "X-API-Key: **TOKEN_VALUE**" -H "Content-Type: application/json" -X POST -d **REQUEST_BODY REST_API_URL**

Parameters:

CA_CERTIFICATE_FILE: .crt (or) **.pem** file location

TOKEN_VALUE: Generated Token value from Applicare Console

REQUEST_BODY: REST API details to fetch

REST_API_URL: Controller_Protocol://Controller_IP:Controller_Port/applicare/restapi

```
TEXT
Controller_Protocol: Applicare Controller running protocol (http or https)
Controller_IP: Applicare Controller running IP or domain name
Controller_Port: Applicare Controller running Port
```

For example, let us consider the below values

CA_CERTIFICATE_FILE: D:\applicare.pem

TOKEN_VALUE: 123456789

REST_API_URL:

HTTP: `http://localhost:8880/applicare/restapi`

HTTPS: `https://localhost:8443/applicare/restapi`

REQUEST_BODY details for Various API

1. To get the status of all active synthetic transactions

```
TEXT
{"\q\":\"syntheticAllTransactionStatus\"}
```

CURL e.g.

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d **{\"q\":\"syntheticAllTransactionStatus\"} http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d **{\"q\":\"syntheticAllTransactionStatus\"} https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details": [{"name": "Google","state": "Failed"},
{"name": "google","state": "Queued"},{"name": "Json","state":"Success"}]}
```

name - Synthetic Transaction Name

state - State of the transaction. (Success, Failed or Queued)

2. To retrieve details of all active synthetic transactions

```
TEXT
{\"q\":\"syntheticAllTransactionDetails\"}
```

CURL e.g.

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d **{\"q\":\"syntheticAllTransactionDetails\"} http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d **{\"q\":\"syntheticAllTransactionDetails\"} https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details":[{"group": "Default","app": "Applicare",
"name": "Google","node": "ApplicareAdmin","state": "Failed","lastChecked": 1657724700000,
"executionTime": 21040,"message": ""},{"group": "Default","app":"","name": "Json",
"node": "ApplicareAdmin","state": "Success","lastChecked":1657724700000,
"executionTime": 316,"message": ""}]}
```

group - Name of the group

app - Name of the application

name - Name of the synthetic transaction

node- Node where the transaction executed

state - State of the transaction. (Success, Failed or Queued)

lastChecked - Last execution time

executionTime - Time taken for the transaction. Value in milliseconds

3. To get the transaction status based on transaction names

```
TEXT
{\"q\":\"syntheticTransactionStatus\",\"txnname\":\"TXN_NAME1,TXN_NAME2\"}
```

TXN_NAME1, TXN_NAME2 - Name of synthetic transactions

cURL e.g.

a. To get the transaction status for single transaction

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**txnname**\":\"**00001**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**txnname**\":\"**00001**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details": [{"name": "00001","state": "Failed"}]}
```

b. To get the transaction status for multiple transactions

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**txnname**\":\"**00001,00002**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**txnname**\":\"**00001,00002**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details": [{"name": "00001","state": "Failed"},
{"name": "00002","state":"Success"}]}
```

4. To get the transaction status based on applications

```
TEXT
{\"q\":\"syntheticTransactionStatus\",\"appname\":\"APP_NAME1,APP_NAME2\"}
```

APP_NAME1, APP_NAME2 - Name of the Application which synthetic transactions was assigned.

CURL e.g.

a. To retrieve transaction the status for single application

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**appname**\":\"**TestApp**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**appname**\":\"**TestApp**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details":[{"name":"00004","state":"Queued"},
{"name":"10jmeter","state":"Success"}]}
```

b. To get the transaction status for multiple applications

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**appname**\":\"**TestApp,Applicare**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionStatus**\",\"**appname**\":\"**TestApp,Applicare**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details":[{"name":"00004","state":"Queued"},
{"name":"10jmeter","state":"Success"},{"name":"Error","state":"Failed"},
{"name":"Google","state":"Failed"}]}
```

5. To get the transaction details based on transaction names

```
TEXT
{\"q\":\"syntheticTransactionDetails\",\"txnname\":\"TXN_NAME1,TXN_NAME2\"}
```

TXN_NAME1, TXN_NAME2 - Name of synthetic transactions

CURL e.g.

a. To get the transaction details for single transaction

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**txnname**\":\"**00001**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**txnname**\":\"**00001**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```
TEXT
{"status":"success","details":[{"group":"Default","app":"","name":"00001","node":"Agent1",
"state":"Queued","lastChecked":0,"executionTime":0,"message":""}]}
```

b. To get the transaction details for multiple transactions

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"syntheticTransactionDetails\",\"**txnname**\":\"**00001,00002**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"syntheticTransactionDetails\",\"**txnname**\":\"**00001,00002**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```yaml
{"status":"success","details":[{"group":"Default","app":"","name":"00001","node":"Agent1",
"state":"Queued","lastChecked":0,"executionTime":0,"message":""},
{"group":"Default","app":"","name":"00002","node":"ApplicareAdmin","state":"Success",
"lastChecked":1657878180000,"executionTime":116720,"message":""}]}
```

6. To get the transaction details based on applications

```text
{\"q\":\"syntheticTransactionDetails\",\"appname\":\"APP_NAME1,APP_NAME2\"}
```

APP_NAME1, APP_NAME2 - Name of the Application which synthetic transactions was assigned.

CURL e.g.

a. To get the transaction for single application

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**appname**\":\"**TestApp**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**appname**\":\"**TestApp**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

```yaml
{"status":"success","details":[{"group":"Default","app":"TestApp","name":"00004",
"node":"Agent2","state":"Queued","lastChecked":0,"executionTime":0,"message":""},
{"group":"Default","app":"TestApp","name":"10jmeter","node":"ApplicareAdmin",
"state":"Success","lastChecked":1657879080000,"executionTime":1469,"message":""}]}
```

b. To get the transaction details for multiple applications

HTTP:

curl -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**appname**\":\"**TestApp,Applicare**\"} **http**://**localhost**:**8880**/applicare/restapi

HTTPS:

curl --cacert **D:\applicare.pem** -H "X-API-Key: **123456789**" -H "Content-Type: application/json" -X POST -d {\"q\":\"**syntheticTransactionDetails**\",\"**appname**\":\"**TestApp,Applicare**\"} **https**://**localhost**:**8443**/applicare/restapi

Response

YAML

{"status":"success","details":[{"group":"Default","app":"TestApp","name":"00004",
"node":"Agent2","state":"Queued","lastChecked":0,"executionTime":0,"message":""},
{"group":"Default","app":"TestApp","name":"10jmeter","node":"ApplicareAdmin",
"state":"Success","lastChecked":1657879080000,"executionTime":1469,"message":""},
{"group":"Default","app":"Applicare","name":"Error","node":"ApplicareAdmin",
"state":"Failed","lastChecked":1657879020000,"executionTime":24432,"message":""},
{"group":"Default","app":"Applicare","name":"Google","node":"ApplicareAdmin",
"state":"Failed","lastChecked":1657879080000,"executionTime":21031,"message":""}]}