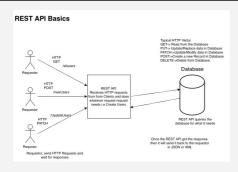


ServiceNow REST - Cheat Sheet Cheat Sheet

by Bibin Gokuldas (bibingokuldas) via cheatography.com/69673/cs/17659/

REST API Basics



REST API Best Practices (cont)

Enforce Enforce existing access controls and require additional and test GlideRecordSecure* API in scripted RESI services

Access
Controls
Build Tests Tests should validate the response code, headers, and to verify resource you implement. You can also use tests to valid function to confirm that errors return useful responses.

*GlideRecordSecure API Ensure that the ACLs are defined on the underly

Scripted REST APIs

API URIs

This part the for the scripted rest has to define name_space, api_id, resource_path, version

API Query

When defining a scripted resource, which parameter is mandatory for the request can also be defined

API Error

Scripted REST APIs provide multiple ways to send an error in a response to a Objects*

requesting client.

*Multiple error objects are available in scripted REST API scripts to report error information to requesting clients. All scripted REST API error objects use the sn_ws_err namespace.

Error objects available are 400,404,406,409,415

REST Security

onality

How is REST API Secure?

The REST API uses basic authentication or OAuth to enforce access or defined on tables to restrict the data viewership.

Will all tables be available for the REST API Access?

By default, Yes. All tables including system tables, and scoped tables a

How can I restrict a table Access through web services?

In the table properties, uncheck the option for Allow access to this table

Does REST API support CORS?

Cross Origin Resource Security is supported.

How can I Define CORS Rules?

CORS Rules can be defined in sys_cors_rule. Which allows to specify a expose.

How to disable CORS Support for Instance?

CORS support on instance is defined by glide.rest.cors.enabled set it to

Can I use OAuth with REST?

Yes, use OAuth token for REST Requests

Can I use MFA with REST?

Yes again, with a REST Request, if MFA is enabled then append token rid:passwrdtoken. Encode using base64 encoding

REST API Best Practices

Follow REST

REST API conventions define specific behaviour for each type of method. For API Conventions

ex: GET: to Query the data, POST: to create Data, PUT and PATCH: to Update data, DELETE: to delete records.

Use

Use versioning to implement new functionalities, so that the existing functionalities will not impact control changes to

changes to API

Return an

Return a status code, which inform the requestor about the success and failures(defined in the response codes section)

Informative HTTP Status

code

Return useful error inform-

Provide the requestor with enough information of why the failure occurred. Error

message is a mix of error message and error code

ation

C

By **Bibin Gokuldas** (bibingokuldas) cheatography.com/bibingokuldas/bibingokuldas.com/

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	ocks REST API				
API	API allows to select a specific Application Progra-	Ex TableAPI,AggregateAPI	400	Bad	The Request URI car
	mming interface, which is available in SNOW	g interface, which is available in SNOW			match the API.
Namespace	REST APIs provided by ServiceNow has now	ST APIs provided by ServiceNow has now Scripted REST may use a different one		Unauth-	The User is not author
	namespace			orized	
Method	REST enables the use of few methods like	Not all the APIs available from ServiceNow	403	Forbidden	The Operation reque
	GET,POST,DELETE,PATCH	would have all the methods available			not permitted for the
Request	Allows to specify a header for the Integration	Can add Custom header as per requirement	t 404	Not Found	The requested resou
Header					not found
Query	Allows to specify an encoded query for the REST Call	Can add more query parameters or even a	405	Method not	The HTTP action is r
parameter		sys_id for some methods		allowed	
You can prepare	e the sample request using the REST API Explorer in Serv	iceNow.	406	Not	The endpoint doesn't
ServiceNow REST URI looks like this <linkforsnow>/api/now/apiname/. For ex: if we are using a table API for POST</linkforsnow>			Т	acceptable	the response format
	then the link look something like below : POST <linkofservicenow>/api/now/table/tablename</linkofservicenow>				The endpoint does n
	sk something like below: POST <linkofservicenow>/api</linkofservicenow>	/now/table/tablename	415	Unsupp-	The endpoint does no
	ok something like below : POST <linkofservicenow>/api</linkofservicenow>	/now/table/tablename	415	Unsupp- orted media	The endpoint does no
		/now/table/tablename	415		The endpoint does no
then the link loo			sed	orted media type	The endpoint does no
REST API Ra To prevent exceper hour.	ate Limit essive inbound REST API requests, set rules that limit the r	number of inbound REST API requests process	sed	orted media type TMessageV2	
REST API Ro To prevent exceper hour. There is an optic	ate Limit	number of inbound REST API requests process	sed	orted media type TMessageV2	Sends the REST me
REST API Rate To prevent except hour. There is an optimate_limit_rules.	ate Limit essive inbound REST API requests, set rules that limit the record to create Rate Limit for users with specific roles, or for a	number of inbound REST API requests process all users. The table for creating rate limit is sy	RES	orted media type TMessageV2	Sends the REST me
REST API Rate To prevent except hour. There is an optimate_limit_rules.	ate Limit essive inbound REST API requests, set rules that limit the r	number of inbound REST API requests process all users. The table for creating rate limit is sy	RES	orted media type TMessageV2 ute()	Sends the REST me instance doesn't wai
REST API Range To prevent except hour. There is an optimate_limit_rules. In the basic Res	ate Limit essive inbound REST API requests, set rules that limit the rule on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex:x-	number of inbound REST API requests process all users. The table for creating rate limit is sy	RES exec exec	orted media type TMessageV2 ute()	Sends the REST me
REST API Rate To prevent except hour. There is an optimate_limit_rules. In the basic Res	ate Limit essive inbound REST API requests, set rules that limit the rule on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex:x-eaders	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10	RES s_ra- exec exec getE	orted media type TMessageV2 ute() uteAsync()	Sends the REST me Sends the REST me instance doesn't wai
REST API Rate of the per hour. There is an option to the limit_rules. In the basic Res	ate Limit essive inbound REST API requests, set rules that limit the resolve inbound REST api requests, set rules that limit the resolve in to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex : x-eaders application/json, application	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10	RES exec exec getE getR	orted media type TMessageV2 ute() uteAsync() ndpoint()	Sends the REST me Sends the REST me instance doesn't wai
REST API Rate To prevent except hour. There is an optimate_limit_rules. In the basic Res	ate Limit essive inbound REST API requests, set rules that limit the resolve inbound REST api requests, set rules that limit the resolve in to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex : x-eaders application/json, application	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10	RES exec exec getE getR getR	orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody()	Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e
REST API Rate To prevent except hour. There is an optimate limit_rules. In the basic Res REST API Hat Accept Content-Type By design, POS	ate Limit assive inbound REST API requests, set rules that limit the rule on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex : x-eaders application/json, application/ pplication/json, application/ BT, PUT, PATCH, and DELETE operations required to prove	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10 n/xml	RES exec exec exec getE getR getR r(<he< td=""><td>orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade-</td><td>Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of th Get the value for an</td></he<>	orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade-	Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of th Get the value for an
REST API Rate To prevent except hour. There is an optic te_limit_rules. In the basic Restrict API House Accept Content-Type By design, POS GET operations	ate Limit Descrive inbound REST API requests, set rules that limit the resource on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex: x-eaders application/json, application/ BT, PUT, PATCH, and DELETE operations required to prove require only the Accept header.	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10 n/xml xml ide both headers.	RES exec exec exec getE getR getR r(<he< td=""><td>orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade- eadername>)* equestHe-</td><td>Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of th Get the value for an message.</td></he<>	orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade- eadername>)* equestHe-	Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of th Get the value for an message.
REST API Rate To prevent except hour. There is an optic te_limit_rules. In the basic Restrict Api House Accept Content-Type By design, POS GET operations	ate Limit assive inbound REST API requests, set rules that limit the rule on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex : x-eaders application/json, application/ pplication/json, application/ BT, PUT, PATCH, and DELETE operations required to prove	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10 n/xml xml ide both headers.	getE getR getR getR getR	orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade- eadername>)* equestHe-	Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of th Get the value for an message. Get HTTP headers t
REST API Rate To prevent except hour. There is an optic te_limit_rules. In the basic Res REST API Hat Accept Content-Type By design, POS GET operations There is an optic	ate Limit Descrive inbound REST API requests, set rules that limit the resource on to create Rate Limit for users with specific roles, or for a sponse Header, the Rate limit would be specified for ex: x-eaders application/json, application/ BT, PUT, PATCH, and DELETE operations required to prove require only the Accept header.	number of inbound REST API requests process all users. The table for creating rate limit is sy RateLimit-Limit>10 n/xml xml ide both headers.	getE getR getR getR getR	orted media type TMessageV2 ute() uteAsync() ndpoint() equestBody() equestHeade- eadername>)* equestHe-	Sends the REST me Sends the REST me instance doesn't wai Get the URL of the e Get the content of the Get the value for an message. Get HTTP headers to



201

204

By **Bibin Gokuldas** (bibingokuldas) cheatography.com/bibingokuldas/bibingokuldas.com/

Created

Success

Success with Response Body

Success with Response Body

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RESTMessageV2 (cont)		RESTMessageV2 (con	t)	
saveResponseBodyAsAttachmen- t(tblname,recordid,filename)**	Configures the REST message to save the returned response body as an attachment record.	setMIDServer(midse- rver)	The name of the MID Ser active MID Server with th	
saveResponseBodyAsAttachmen- t(tblname,recordid,filename,encry-	Configure the REST message to save the returned response body as an encrypted attachment record.	setMutualAuth(profile- name)	Set the mutual authentica message.	
ptcontext)* setAuthenticationProfile(type,pro-	Set the credentials for the REST message using an existing basic auth	setQueryParameter(- name, value)	Append a parameter to the name=value.	
fileid)** setBasicAuth(username,pa-	or OAuth 2.0 profile. Sets basic authentication headers for the REST message.	setRequestBody(- body)	Set the body content to se using PUT or POST HTT	
ssword) setEccCorrelator(correlator)	Associate outbound requests and the resulting response record in the ECC queue. This method only applies to REST messages sent through	setRequestBodyF- romAttachment(atta- chmentsysid)	Sets the request body usi	
setEccParameter(name,value)	a MID Server. Override a value from the database by writing to the REST message	setRequestHeader(n-ame,value);	Set an HTTP header in the value.	
	payload. This method only applies to REST messages sent through a MID Server.	setRequestorProfile(r- equestorcontext,re-	Override the default requirement order to retrieve an OAutl	
setEndpoint(endpoint)	Set the endpoint for the REST message.	questorid)	different requestor.	
setHttpMethod(method)	The HTTP method this REST message performs, such as GET or PUT.	setStringParameter-	Set a REST message fun	
setHttpTimeout(milliseconds)	Set the amount of time the REST message waits for a response from the web service provider before the request times out.	(name,value) setStringParameter-	from the REST message XML reserved characters	
setLogLevel(level)	Set the log level for this message and the corresponding response. Valid values for level are basic, elevated, and all.	NoEscape(name,v-alue)	equivalent escaped chara	
		waitForResponse(seconds)	In seconds. Wait at most Queue/Mid Server.	
		*By design, this method cannot return the value for a he To grant this method access to all headers, set the prop **the input parameters for this functions are string, and r		



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*encryptcontext should specify the sysid of the encryptic