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ServiceNow REST - Cheat Sheet Cheat Sheet by Bibin Gokuldas (bibingokuldas) via cheatography.com/69673/cs/17659/

REST API Bas	ics	REST API Best Practices (cont)		
	<complex-block></complex-block>	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 resource you implement. You can also use tests to valif functi- to verify resource you implement. You can also use tests to valif functi- onality *GlideRecordSecure API Ensure that the ACLs are defined on the underfunction		
		user.		
Scripted REST API URIs	APIs This part the for the scripted rest has to define name_space, api_id, resour- ce_path, version	REST Security How is REST API Secure?		
API Query Parameter	When defining a scripted resource, which parameter is mandatory for the request can also be defined	The REST API uses basic authentication or OAuth to enforce access condefined on tables to restrict the data viewership.		
API Error Objects*	Scripted REST APIs provide multiple ways to send an error in a response to a requesting client.	Will all tables be available for the REST API Access? By default, Yes. All tables including system tables, and scoped tables a		
requesting clients.	cts are available in scripted REST API scripts to report error information to All scripted REST API error objects use the sn_ws_err namespace. able are 400,404,406,409,415	How can I restrict a table Access through web services? In the table properties, uncheck the option for Allow access to this table		
REST API Bes	t Practices	Does REST API support CORS? Cross Origin Resource Security is supported.		
Follow REST API Conven- tions	REST API conventions define specific behaviour for each type of method. For ex : <i>GET</i> : to Query the data, <i>POST</i> : to create Data, <i>PUT and PATCH</i> : to Update data, <i>DELETE</i> : to delete records.	How can I Define CORS Rules? CORS Rules can be defined in sys_cors_rule. Which allows to specify a expose.		
Use Versioning to control	Use versioning to implement new functionalities, so that the existing functiona- lities will not impact	How to disable CORS Support for Instance? CORS support on instance is defined by glide.rest.cors.enabled set it to		
changes to API		Can I use OAuth with REST? Yes, use OAuth token for REST Requests		
Return an Informative HTTP Status code	Return a status code, which inform the requestor about the success and failur- es(defined in the response codes section)	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		
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	<u>.</u>		

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Building Blo	cks REST API		RES	T API Respons	e Codes (cont)
API	API allows to select a specific Application Progra- mming interface, which is available in SNOW	Ex TableAPI,AggregateAPI	400	Bad Request	The Request URI car match the API.
Namespace	REST APIs provided by ServiceNow has now namespace	Scripted REST may use a different one	401	Unauth- orized	The User is not autho
Method	REST enables the use of few methods like GET,POST,DELETE,PATCH	Not all the APIs available from ServiceNow would have all the methods available	403	Forbidden	The Operation reque not permitted for the
Request Header	Allows to specify a header for the Integration	Can add Custom header as per requirement	404	Not Found	The requested resou not found
Query parameter	Allows to specify an encoded query for the REST Ca	all Can add more query parameters or even a sys_id for some methods	405	Method not allowed	The HTTP action is n
You can prepare the sample request using the REST API Explorer in ServiceNow. ServiceNow REST URI looks like this <linkforsnow>/api/now/apiname/. For ex : if we are using a table API for POST</linkforsnow>			406	Not acceptable	The endpoint doesn't the response format
then the link look something like below : POST <linkofservicenow>/api/now/table/tablename REST API Rate Limit</linkofservicenow>				Unsupp- orted media type	The endpoint does no
To prevent exce per hour.	ssive inbound REST API requests, set rules that limit t	he number of inbound REST API requests processed	RES	TMessageV2	
There is an option to create Rate Limit for users with specific roles, or for all users. The table for creating rate limit is sys_ra-				ute()	Sends the REST me
te_limit_rules. In the basic Response Header, the Rate limit would be specified for ex : x-RateLimit-Limit>10				uteAsync()	Sends the REST me instance doesn't wai
			getE	ndpoint()	Get the URL of the e
REST API He			getR	equestBody()	Get the content of th
Accept Content-Type	application/json, application/		-	equestHeade- eadername>)*	Get the value for an message.
By design, POS	T, PUT, PATCH, and DELETE operations required to p	provide both headers.	aetR	equestHe-	Get HTTP headers t

GET operations require only the Accept header.

There is an option override the HTTP method, such as GET or POST, by setting the X-http-method-override header.

REST API Response Codes					
200	Success	Success with Response Body			
201	Created	Success with Response Body			
204	Success	Success with Response Body			



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associated values.

aders()

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RESTMessageV2 (cont)		RESTMessageV2 (cor	nt)
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- fileid)**	Set the credentials for the REST message using an existing basic auth or OAuth 2.0 profile.	setQueryParameter(- name, value)	Append a parameter to th name=value.
setBasicAuth(username,pa-	Sets basic authentication headers for the REST message.	setRequestBody(- body)	Set the body content to su 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 th value.
	payload. This method only applies to REST messages sent through a MID Server.	setRequestorProfile(r- equestorcontext,re-	Override the default required order to retrieve an OAut
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	(name,value)	from the REST message
	web service provider before the request times out.	setStringParameter-	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(se- conds)	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 *encryptcontext should specify the sysid of the encryptic

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