



API AutoFlow Actions Cheat Sheet

ACTIONS LIST

conditional	if switch
iteration	filter map
scope	break raise set
api	operation
config	execute get-api get[apis get-client get-clients get-intent get-intents get-server get-server-api get-servers get-service get-service-operation-arguments get-services
database	delete insert process-database-result query select update
file	append delete list mkdir read write
http	request
ldap	add add-attribute bind delete delete-attribute modify search
mqtt	get-subscription publish
redis	command
service	operation
service/aws	operation
syslog	syslog-udp-rfc3164 syslog-udp-rfc5424
system	async async-stream command elixir get-os-variable log ratelimit
array	add at chunk concatenate count de-duplicate delete delete-at drop drop-every duplicate first flatten insert-at intersection intersperse is-empty is-member join last maximum minimum minimum-maximum not-in random replace-at reverse reverse-slice

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	shuffle slice sort sort-by-path split starts-with sum take take-every take-random to-integer to-object to-string trim union unique wrap
condition	is-array is-boolean is-equal-to is-float is-integer is-larger-than is-larger-than-or-equal-to is-less-than is-less-than-or-equal-to is-non-empty-list is-non-empty-string is-null is-number is-object is-string
data	larger smaller
data/binary	16-decode 16-encode 32-decode 32-encode 32-hex-extended-decode 32-hex-extended-encode 64-decode 64-encode 64-url-decode 64-url-encode base-decode base-encode byte-size
data/csv	decode encode
data/execution	decode encode
data/json	decode encode to-xml
data/jwt	decode encode
data/uri	decode decode-query encode
data/xml	decode encode to-json
data/yaml	decode encode
datetime	current-date current-day current-monotonic-time current-os-time current-system-time current-time current-unix-time date-compare date-diff datetime-add datetime-add-to-now datetime-compare datetime-diff datetime-from-unix-time datetime-to-date datetime-to-time datetime-to-unix-time now time-compare
float	ceiling floor random ratio round to-integer to-string
integer	divide divide-quotient divide-remainder random to-array to-float to-string

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math	div
object	delete get get-in has-key keys map-key merge put put-in put-if-exist put-if-new split take to-delimited-string values
security	authentication-decode auth-encode-basic auth-encode-bearer auth-encode-digest authorization-decode decrypt encrypt hash mac
string	at capitalize-first concatenate contains downcase duplicate ends-with escape first interpolate join last length pad-leading pad-trailing replace replace-leading replace-prefix replace-suffix replace-trailing reverse slice split split-at split-by split-by-newline starts-with to-float to-integer to-integer-by-base trim trim-by trim-leading trim-leading-by trim-trailing trim-trailing-by unescape upcase
uuid	md5 random sha1 standard
variable	set

API AutoFlow **Actions Cheat Sheet**

Flow creation actions

Actions that create the flow such as IF condition, LOOP iteration, and more.

conditional	<code>if</code>	This Action returns values that fits the condition
	<code>switch</code>	This Action returns values that fits on switch case. If the input value is not in the case list, it returns the value of default.
iteration	<code>filter</code>	Iterate over array of data filtering for each truthy value
	<code>map</code>	Iterate over array of data mapping result to each array position
scope	<code>break</code>	This Action breaks Operation, then returns results that 'Scope' on values.
	<code>raise</code>	This action will raise an exception and halt execution.
	<code>set</code>	This Action returns value which you set in 'Scope' Value.

API AutoFlow **Actions Cheat Sheet**

Actions to make Calls

Actions used to make internal and external calls such as making a call to database using the database client.

api	operation	This Action performs the API operation based on the input for a given API operation.
config	execute	Execute API AutoFlow Custom Flow configuration
	get-api	Get configuration of a specified API.
	get[apis]	Get all API configuration.
	get-client	Get current version of the specified Client configuration.
	get-clients	Get all Client configuration.
	get-intent	Get configuration of a specified Intent.
	get-intents	Get all Intent configuration.
	get-server	Get current version of the specified Server configuration.
	get-server-api	Get version of OpenAPI specification currently being used by the server process.
	get-servers	Get all Server configuration.
	get-service	Get configuration of a specified Service.
	get-service-operation-arguments	
	get-services	Get all Service configuration.
database	delete	Issue delete query to configured DB connection based on the information provided

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insert	Issue insert query to configured DB connection based on the information provided
process-database-result	
query	Issue query to configured DB connection based on the information provided
select	Issue select query to configured DB connection based on the information provided
update	Issue update query to configured DB connection based on the information provided

file

append	Append content to a file
delete	Delete content to a file
list	List all the components in the path
mkdir	Make a directory
read	Read a file
write	Write data in a file

http

request	This Action returns results base on http/request.
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ldap

add	Add a new LDAP entry
add-attribute	Add attributes to an LDAP entry
bind	Bind to LDAP
delete	Delete a new LDAP entry
delete-attribute	Delete attributes from an LDAP entry
modify	Modify attributes from an LDAP entry
search	Search LDAP for a match



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mqtt	get-subscription	Get subscription topics
	publish	Publish a new MQTT message

redis	command	This action returns the result value of the redis command based on the message you sent.
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service	operation	This Action returns your Service results.
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service/aws	operation	This Action returns your Service results from AWS
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syslog	syslog-udp-rfc3164	The This Action returns a syslog message in RFC 3164 format based on the given input, and transmits the message using the UDP protocol.
	syslog-udp-rfc5424	The This Action returns a syslog message in RFC 5324 format based on the given input, and transmits the message using the UDP protocol.

system	async	This action can asynchronously perform multiple sets of actions.
	async-stream	This action can asynchronously perform a set of actions over an array of inputs.
	command	This Action returns result of System command.
	elixir	This Action returns result of Elixir command.
	get-os-variable	Used to get variables from the OS.
	log	This Action returns a log message based on the given input, and outputs the message according to the specified log 'level'.

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ratelimit

This Action is used to limit the number of requests for a particular Action based on the given input.

Actions to work with the Data

Everything you need to work with the data.

array

add	Add an item to the end of the array.
at	This action returns element of the number you selected in the array.
chunk	This action divide a given array into subarrays of a certain size.
concatenate	This Action takes two arrays and merges them into one array.
count	This Action counts the number of values in the array.
de-duplicate	This Action returns Array where all consecutive duplicated elements are collapsed to a single element.
delete	This Action deletes the given element from Array. Returns a new Array without the element.
delete-at	This Action returns a new Array by removing the value at the specified index.
drop	This Action drops the Count of elements from Array.



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drop-every	This Action returns new Array of every nth element in Array dropped, starting with the first element.
duplicate	This Action duplicates the given Array 'count' times in new Array.
first	This Action returns the first element in Array or default if Array is empty.
flatten	This Action returns Flattens the given Array of nested Array.
insert-at	This Action returns new Array with value inserted at the specified index.
intersection	This Action returns new Array containing only elements that 'array' and 'with' have in common.
intersperse	This Action returns new Array which intersperses separator between each element of Array.
is-empty	This Action returns true or false if Array is empty or not.
is-member	This Action returns true or false if element exists within Array or not.
join	This Action returns new value that joins the given Array into a string using 'separator'.
last	This Action returns the last element in Array or default if Array is empty.
maximum	This Action returns the maximal element in Array.
minimum	This Action returns the minimal element in Array.
minimum-maximum	This Action returns the minimal and the maximal element in Array.
not-in	This action returns a new array of elements in 'array' that 'in' Array does not have.



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random	This action returns random element in Array.
replace-at	This Action returns Array with a replaced value at the specified index.
reverse	This Action returns Array of elements in reverse order.
reverse-slice	This Action returns Reverses Array in the range from initial 'index' through 'count' elements.
shuffle	This Action returns new Array with the elements of Array shuffled.
slice	This Action returns a subset new Array of the given Array, from 'index' with 'count' number of elements if available.
sort	This Action returns sorted Array.
sort-by-path	This Action returns sorted Array by path.
split	This Action returns new split Array.
starts-with	This Action returns true if list starts with the given 'value' otherwise returns false.
sum	This Action returns the sum of all elements.
take	This Action returns new Array. Takes 'count' of elements from the beginning or the end of 'Array'.
take-every	This Action returns new Array of every 'nth' element in 'Array', starting with the first element.
take-random	This Action returns new Array Takes 'count' random elements from 'Array'.
to-integer	This Action returns Integer represented by the ordered.
to-object	This Action returns Object type from Array.

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to-string	This Action returns String represented by the ordered.
trim	This Action returns new Array without null value.
union	This Action returns new Array containing all members of 'array' and 'with'.
unique	This Action returns new Array removing all duplicated elements.
wrap	This Action returns new Array which is wrapped 'value' in array if this is not array.

condition

is-array	This Action returns true or false if the given input is array or not.
is-boolean	This Action returns true or false if the given input is boolean-type or not.
is-equal-to	This Action returns true or false if the given value equals the target.
is-float	This Action returns true or false if the given input is float type or not.
is-integer	This Action returns true or false if the given input is integer type or not.
is-larger-than	This Action returns true or false if the given value is larger than the target.
is-larger-than-or-equal-to	This Action returns true or false if the given value is larger than or equal to the target.
is-less-than	This Action returns true or false if the given value is less than the target.
is-less-than-or-equal-to	This Action returns true or false if the given value is less than or equal to the target.
is-non-empty-list	This Action returns true or false if the given input array is empty or not.

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is-non-empty-string	This Action returns true or false if the given input string is empty or not.
is-null	This Action returns true or false if the given input is null or not.
is-number	This Action returns true or false if the given input is number or not.
is-object	This Action returns true or false if the given input is object or not.
is-string	This Action returns true or false if the given input is string or not.

data

larger	This Action compares the two values(first, second) and returns a large value.
smaller	This Action compares the two values(first, second) and returns a small value.

data/binary

16-decode	Decodes a base 16 encoded HEX string into a binary
16-encode	Encodes a binary into a base 16 encoded HEX string
32-decode	Decodes a base 32 encoded string into a binary
32-encode	Encodes a binary into a base 32 encoded string
32-hex-extended-decode	Decodes a base 32 encoded string with extended hexadecimal alphabet into a binary
32-hex-extended-encode	Encodes a binary into a base 32 encoded string with extended hexadecimal alphabet
64-decode	Decodes a base 64 encoded string into a binary string.



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64-encode	Encodes a binary into a base 64 encoded string
64-url-decode	Decodes a base 64 encoded string with URL and filename safe alphabet into a binary
64-url-encode	Encodes a binary into a base 64 encoded string with URL and filename safe alphabet
base-decode	Decodes a string encoded in specified base into a binary.
base-encode	Encodes a binary into a string encoded in specified base
byte-size	Returns byte size of data provided

data/csv

decode	This Action returns the ability to parse CSV strings to separate headers and data, and to convert each row into object form.
encode	This Action returns new CSV that is the ability to generate CSV strings using given headers and data.

data/execution

decode	This Action provides the ability to decode a given JSON string and convert it into a data structure.
encode	This Action provides the ability to encode data structures into JSON strings.

data/json

decode	This Action provides the ability to decode a given JSON string and convert it into a data structure.
encode	This Action provides the ability to encode data structures into JSON strings.



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to-xml	This Action provides the ability to convert a given JSON data structure into an XML string.
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data/jwt

decode	Decode JWT into its claim/data
encode	Encode claim/data into JWT

data/uri

decode	Parses an RFC 3986 compliant uri string into a uri map
decode-query	Decode query string according to type selected
encode	Creates an RFC 3986 compliant URI String, based on the components of URI Map

data/xml

decode	This Action provides the ability to convert a given XML string into data structure.
encode	This Action provides the ability to convert a given data structure into XML string.
to-json	This Action provides the ability to convert a given XML into JSON.

data/yaml

decode	This Action decodes a given yaml string into data structure.
encode	This Action decodes the ability to convert a given yaml string into data structure.

datetime

current-date	Returns the current date in UTC
current-day	Calculates the current day of the week.
current-monotonic-time	Returns the current monotonic time in the given time unit.

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<code>current-os-time</code>	Returns the current operating system (OS) time in the given time unit as unix time.
<code>current-system-time</code>	Returns the current system time in the given time unit as unix time.
<code>current-time</code>	Returns the current time in UTC.
<code>current-unix-time</code>	Returns the current unix time in UTC.
<code>date-compare</code>	Compares two dates.
<code>date-diff</code>	Calculates the difference between two dates.
<code>datetime-add</code>	Adds a specified amount of time to a DateTime.
<code>datetime-add-to-now</code>	Adds a specified amount of time to Now.
<code>datetime-compare</code>	Compares two datetimes.
<code>datetime-diff</code>	Calculates the difference between two datetimes.
<code>datetime-from-unix-time</code>	Converts the given Unix time to datetime.
<code>datetime-to-date</code>	Converts a datetime into a date.
<code>datetime-to-time</code>	Converts a datetime into a time.
<code>datetime-to-unix-time</code>	Converts the given datetime to unix time.
<code>now</code>	Returns the current datetime.
<code>time-compare</code>	Compares two times.



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float

ceiling	This Action return integer that rounds 'float' to the smallest integer greater than or equal to 'float'.
floor	This Action return integer that rounds 'float' to the largest number less than or equal to 'float'.
random	This Action returns random float number more than 0 and less than 1.
ratio	This Action returns ration of input number.
round	This Action is used to round a given floating-point number to the nearest integer.
to-integer	This Action is to convert a given float number from an input into an integer.
to-string	This Action is to convert a given float number from an input into a String.

integer

divide	This Action returns quotient and remainder by divison of Integer.
divide-quotient	This Action returns only quotient by divison of Integer.
divide-remainder	This Action returns only remainder by divison of Integer.
random	This Action returns one of the random Integer up to the maximum Integer you set.
to-array	This Action returns an array that is a value converted from the value of the integer to numeral system base on base.
to-float	This Action returns float that is a value converted from the value of the integer.



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<code>to-string</code>	This Action returns an array that is a value converted from the value of the integer to numeral system base on base.
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math

<code>div</code>	Division of numbers.
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object

<code>delete</code>	This Action delete given 'key' from 'object'.
<code>get</code>	This action returns the value corresponding to the key value in the object.
<code>get-in</code>	This action returns the value corresponding to the path value in the object.
<code>has-key</code>	This action returns whether the given 'key' exists in the given 'object'.
<code>keys</code>	This action returns all keys in the object.
<code>map-key</code>	This action returns new object with keys mapped to new keys.
<code>merge</code>	This action returns new object which Merges two 'object' into one.
<code>put</code>	This action returns new object which puts the given 'value' under 'key' in 'object'
<code>put-in</code>	This action returns new object which puts the given 'value' under 'path' in 'object'
<code>put-if-exist</code>	This action returns new object which puts a 'value' under 'key' only if the 'key' already exists in 'object'.
<code>put-if-new</code>	This Action returns new object which puts the given 'value' under 'key' unless the entry 'key' already exists in 'object'.



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split	This Action returns split objects.
take	This Action returns a new 'object' with all the key-value pairs in 'object' where the key is in keys.
to-delimited-string	Convert object to delimited string
values	This Action returns all values from 'object'.

security

authentication-decode	Decode an authentication string
auth-encode-basic	Encode a map to an authorization token
auth-encode-bearer	Encodes a token string to a bearer token string
auth-encode-digest	Encode a map to a digest token string
authorization-decode	Decode an authorization token
decrypt	Decrypt data to a string
encrypt	Encrypt a data string to a binary
hash	Hash data string using hash algorithm
mac	Compute Mac data using mac algorithm

string

at	This Action returns the grapheme 'at' of the given string.
capitalize-first	This Action returns new string which the first letter is capitalized.
concatenate	This Action takes two string and merges them into one string.
contains	This Action returns true or false if 'contents' exists within 'string' or not.



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downcase	This Action returns downcase string.
duplicate	This Action returns duplicated string 'count' times.
ends-with	This Action returns true if string ends with any of the suffixes given.
escape	This Action returns escaped string to be literally matched in a regex.
first	This Action returns the first string in string.
interpolate	This action returns new string by replacing 'variable' with its value in a given string.
join	This Action returns new string that joins the given Array into a string using 'delimiter'.
last	This Action returns the last string in string.
length	This Action returns Count the number of characters in the string.
pad-leading	This Action returns returns a new string padded with a leading filler which is made of elements from 'padding'.
pad-trailing	This Action returns returns a new string padded with a trailing filler which is made of elements from 'padding'.
replace	This Action returns a new string created by replacing occurrences of 'pattern' in 'string' with 'replacement'.
replace-leading	This Action returns new string that Replaces all leading occurrences of 'pattern' by 'replacement' of match in string.
replace-prefix	This Action returns new string that replaces prefix in 'string' by replacement if it matches 'pattern'.

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<code>replace-suffix</code>	This Action returns new string that replaces suffix in 'string' by replacement if it matches 'pattern'.
<code>replace-trailing</code>	This Action returns new string that replaces all trailing occurrences of 'pattern' by replacement in string.
<code>reverse</code>	This Action returns string in reverse order.
<code>slice</code>	This Action returns a substring starting at the offset 'start', and of the given 'length'.
<code>split</code>	This Action returns array that divides a string into substrings at each Unicode whitespace occurrence with leading and trailing whitespace ignored.
<code>split-at</code>	This Action returns array that splits a string into two at the specified offset.
<code>split-by</code>	This Action returns array that divides a string into parts based on a pattern.
<code>split-by-newline</code>	The This Action returns array that splits a given string based on a newline.
<code>starts-with</code>	The This Action returns true or false if string starts with any of the 'prefix' given.
<code>to-float</code>	The This Action returns float that string is parsed a binary into a float.
<code>to-integer</code>	The This Action returns integer that string is parsed a binary into a integer.
<code>to-integer-by-base</code>	The This Action returns integer which corresponds to 'string' representation of integer in the given 'base'.
<code>trim</code>	The This Action returns a string where all leading Unicode whitespaces have been removed.



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trim-by	The This Action returns a string where all leading and trailing 'pattern' characters have been removed.
trim-leading	The This Action returns a string where all leading Unicode whitespaces have been removed.
trim-leading-by	The This Action returns a string where all leading 'pattern' characters have been removed.
trim-trailing	The This Action returns a string where all trailing Unicode whitespaces has been removed.
trim-trailing-by	The This Action returns a string where all trailing 'pattern' characters have been removed.
unescape	The This Action returns a string where unescapes characters in a string.
upcase	The This Action returns a string where converts all characters in the given string to uppercase.

uuid

md5	Create a new UUID based on MD5 of fixed value.
random	Create a new UUID based on pseudo random value.
sha1	Create a new UUID based on SHA1 of fixed value.
standard	Create a new standard UUID

variable

set	This Action set variable.
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