

# API Module - DHCPv2

- DHCPv2 Module
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  - remove DHCP functionality from a resource
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## DHCPv2 Module

The DHCPv2 system is built upon the Resource API, so actions relating to DHCP tasks are largely expressed in terms of Resource actions.

This section describes common DHCP tasks and how they are accomplished via the DHCPv2 system.

### get all DHCP-enabled resources

Description	Finds all resources from section 'dhcp_module,' which indicates that their parents are DHCP-enabled. Adding in other Resource-Get API parameters can filter this list further.
URL	/api/v1/api.php?target=resource&action=get&type=dhcp_module

Returns

Examples:

SUCCESSFUL:	{ "success":1,"message":"Search successful","data":{"id":"1432", "name":"1392 DHCP Module" ,"slug":"1392-dhcp-module", "type":"dhcp_module", "parent_id":"1392", "category_id":null, "attr":{"_dhcp_attributes":{"type":"ISC", "notes":"","username":"","port":"","config_test":"VetcVinit.d\\dhcpd configtest", "server_stop":"VetcVinit.d\\dhcpd stop", "server_start":"VetcVinit.d\\dhcpd start", "config_path":"","option_routers":"","option_domain_name_servers":"","option_domain_name":"","authoritative":"","default_lease_time":"600", "max_lease_time":"7200", "local_port":"67", "log_facility":"local7", "password":"","server_ip":"10.0.0.0", "freeLines":0}, "_dhcp_config_id":"33"}}, "result_count":1, "found_count":1}
ERROR:	{ "success":0, "message":"error message"}

Return Detail:

Name	Type	Description
id	INTEGER	ID of the dhcp_module resource
name	STRING	The name of the dhcp_module
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_module
parent_id	INTEGER	The resource to which the dhcp_module is attached
category_id	INTEGER	The category to which this dhcp_module is associated
result_count	INTEGER	How many dhcp_modules are returned in this search.
found_count	INTEGER	How many dhcp_modules were found in this query, without pagination.

Attributes:

Key	Type	Description
_dhcp_attributes	JSON	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP server. An expansion of the JSON object is given below in the Data Attributes section.
_dhcp_config_id	INTEGER	A reference to the DHCP Config file written within the system. This field is maintained by the DHCPv2 system itself and should not be set externally.

## create a new DHCP-enabled resource

Description	A resource becomes a DHCP-enabled by adding a special "dhcp_module" resource as a child. This action is identical to a normal Resource Create command.
URL	/api/v1/api.php?target=resource&action=add&meta[type]=dhcp_module&meta[name]=2163 DHCP Module&meta[parent_id]=2163

Returns

Examples:

SUCCESSFUL:	{ "success":1,"message":"Resource added","data":{"id": 2165,"name" : "2163 DHCP Module","slug": "2163-dhcp-module-2","type" : "dhcp_module", "parent_id": 2163,"category_id": null,"attr":{}}}
ERROR:	{ "success":0, "message":"error message"}

Return Detail:

Name	Type	Description
id	INTEGER	ID of the newly created dhcp_module
name	STRING	The name of the dhcp_module
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_module'
parent_id	INTEGER	The resource to which the dhcp_module is attached
category_id	INTEGER	The category to which this dhcp_module is associated

## update a DHCP-enabled resource with new configuration info

Description	Modifying an existing dhcp_module uses the identical commands as all other Resource-Update actions. An example of configuring a DHCP server is given below.
URL	/api/v1/api.php?target=resource&action=update&meta[id]=2178 &meta[type]=dhcp_module&fields[_dhcp_attributes][]={ "type": "ISC", "notes": "notes go here", "username": "username", "port": "port", "config_test": "/etc/init.d/dhcpd configtest", "server_stop": "/etc/init.d/dhcpd stop", "server_start": "/etc/init.d/dhcpd start", "config_path": "/tmp/dhcpd.conf", "option_routers": "192.168.0.0", "option_domain_name_servers": "ns1.6connect.com", "option_domain_name": "6connect.com", "authoritative": "1", "default_lease_time": "600", "max_lease_time": "7200", "local_port": "67", "log_facility": "local7", "password": "password", "server_ip": "192.168.0.1", "freeLines": 3, "freeLine1": "free line 1", "freeLine2": "free line 2", "freeLine3": "free line 3" }

Returns

Examples:

SUCCESSFUL:

```
{
  "success": 1,
  "message": "Resource Updated",
  "data": {
    "id": "2166",
    "name": "2163 DHCP Module",
    "slug": "2163-dhcp-module-3",
    "type": "dhcp_module",
    "parent_id": "2163",
    "category_id": null,
    "attr": {
      "_dhcp_attributes": {
        "type": "ISC",
        "notes": "notes go here",
        "username": "username",
        "port": "port",
        "config_test": "\\Vetc\\Vinit.d\\dhcpd configtest",
        "server_stop": "\\Vetc\\Vinit.d\\dhcpd stop",
        "server_start": "\\Vetc\\Vinit.d\\dhcpd start",
        "config_path": "\\tmp\\dhcpd.conf",
        "option_routers": "192.168.0.0",
        "option_domain_name_servers": "ns1.6connect.com",
        "option_domain_name": "6connect.com",
        "authoritative": "1",
        "default_lease_time": "600",
        "max_lease_time": "7200",
        "local_port": "67",
        "log_facility": "local7",
        "password": "*****",
        "server_ip": "192.168.0.1",
        "freeLines": 3,
        "freeLine1": "free line 1",
        "freeLine2": "free line 2",
        "freeLine3": "free line 3"
      }
    }
  }
}
```

ERROR:

```
{
  "success": 0,
  "message": "error message"
}
```

Return Detail:

Name	Type	Description
id	INTEGER	ID of the newly created dhcp_module
name	STRING	The name of the dhcp_module
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_module'
parent_id	INTEGER	The resource to which the dhcp_module is attached
category_id	INTEGER	The category to which this dhcp_module is associated

Attributes:

Key	Type	Description
_dhcp_attributes	JSON	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP server. An expansion of the JSON object is given below in the Data Attributes section.

## remove DHCP functionality from a resource

Description	To remove DHCP functionality, delete the dhcp_module child resource. This operation uses general Resource->Delete functionality.				
URL	/api/v1/api.php?target=resource&action=delete&id=2166				
Returns	<p><b>Examples:</b></p> <table> <tr> <td>SUCCESSFUL:</td><td><pre>{ "success": 1, "message": "Deleted 2163-dhcp-module-3 (#2166)" }</pre></td></tr> <tr> <td>ERROR:</td><td><pre>{ "success": 0, "message": "error message" }</pre></td></tr> </table>	SUCCESSFUL:	<pre>{ "success": 1, "message": "Deleted 2163-dhcp-module-3 (#2166)" }</pre>	ERROR:	<pre>{ "success": 0, "message": "error message" }</pre>
SUCCESSFUL:	<pre>{ "success": 1, "message": "Deleted 2163-dhcp-module-3 (#2166)" }</pre>				
ERROR:	<pre>{ "success": 0, "message": "error message" }</pre>				

## get all DHCP Pools

Description	As with the dhcp_module commands, the API endpoints governing DHCP IP Pools use the general Resource system. All the modifiers that can be applied to a Resource-Get can be used to filter this query.
URL	/api/v1/api.php?target=resource&action=get&type=dhcp_pool

Returns

Examples:

SUCCESSFUL:	<pre>{ "success":1,"message":"Search successful","data":{"id":"1482","name":"Blah","slug":"blah","type":"dhcp_pool","parent_id":"1","category_id":null,"attr":{"_dhcp_type":"subnet","_dhcp_pool_attributes":{"mac\\":\\"\\",\\"rangeStart\\":\\"13.0.0.0\\",\\"rangeEnd\\":\\"13.0.0.255\\",\\"freeLines\\":0},"_dhcp_ip_id":"80902"}}},"result_count":1,"found_count":1}</pre>
ERROR:	<pre>{ "success":0, "message":"error message"}</pre>

Return Detail:

Name	Type	Description
id	INTEGER	ID of the dhcp_pool resource
name	STRING	The name of the dhcp_pool
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_pool'
parent_id	INTEGER	The resource to which the dhcp_pool is attached
category_id	INTEGER	The category to which this dhcp_pool is associated
result_count	INTEGER	How many dhcp_pools are returned in this search.
found_count	INTEGER	How many dhcp_pools were found in this query, without pagination.

Attributes:

Key	Type	Description
_dhcp_type	STRING	Either 'subnet' or 'host'. Determines whether this DHCP Pool is describing a Subnet or a Host.
_dhcp_pool_attributes	JSON	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP Pool. An expansion of the JSON object is given below in the Data Attributes section.
_dhcp_ip_id	INTEGER	The id of the IPAM subnet or host which is assigned to this DHCP Pool

create a new DHCP Pool resource	
Description	Uses the general Resource-Add endpoint to create a DHCP Pool resource.
URL	<code>/api/v1/api.php?target=resource&amp; action=add&amp; meta[type]=dhcp_pool&amp; meta[name]=New Subnet&amp; fields[_dhcp_type][]=host&amp; fields[_dhcp_pool_attributes][]={"mac":"aa:bb:cc:dd:ee:ff", "rangeStart":"","rangeEnd":"","freeLines":3,"freeLine1":"Free Line 1", "freeLine2":"Free Line 2", "freeLine3":"Free Line 3"}</code>

Returns

Examples:

SUCCESSFUL:	{ "success":1,"message":"Resource added","data":{"id":2167,"name":"New Subnet","slug":"new-subnet","type":"dhcp_pool ","parent_id":1,"category_id":null,"attr":[]}}
ERROR:	{ "success":0, "message":"error message"}

Return Detail:

Name	Type	Description
id	INTEGER	ID of the newly created dhcp_pool
name	STRING	The name of the dhcp_pool
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_pool'
parent_id	INTEGER	The parent resource; by default the TLR.
category_id	INTEGER	The category to which this dhcp_pool is associated

## update a DHCP Pool

Description	Modifying an existing dhcp_pool uses the identical commands as all other Resource-Update actions.
URL	/api/v1/api.php?target=resource& action=update& meta[type]=dhcp_pool& meta[name]=Another Test& fields[_dhcp_type][]=subnet& fields[_dhcp_pool_attributes][]={"mac":"","rangeStart":"10.10.10.4", "rangeEnd":"10.10.10.5", "freeLines":3, "freeLine1":"example1", "freeLine2":"example2", "freeLine3":"example3"}&fields[_dhcp_ip_id][]=92430&meta[id]=2165

Returns

Examples:

SUCCESSFUL:	<pre>{"success":1, "message":"Resource Updated", "data":{"id":"2165", "name":"Another Test", "slug":"2163-dhcp-module-2", "type":"dhcp_module", "parent_id":"2163", "category_id":null,"attr":{"_dhcp_type":"subnet", "_dhcp_pool_attributes":{"mac":"","rangeStart":"","10.10.10.4","rangeEnd":"","10.10.10.5","freeLines":3, "freeLine1":"","example1","freeLine2":"","example2","freeLine3":"","example3"},"", "_dhcp_ip_id":"92430"}}}}</pre>
ERROR:	<pre>{"success":0, "message":"error message"}</pre>

Return Detail:

Name	Type	Description
id	INTEGER	ID of the newly created dhcp_module
name	STRING	The name of the dhcp_module
slug	STRING	The unique reference string for this resource
type	STRING	Always 'dhcp_module'
parent_id	INTEGER	The resource to which the dhcp_module is attached
category_id	INTEGER	The category to which this dhcp_module is associated

Attributes:

Key	Type	Description
_dhcp_type	STRING	Either 'subnet' or 'host'. Determines whether this DHCP Pool is describing a Subnet or a Host.
_dhcp_pool_attributes	JSON	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP Pool. An expansion of the JSON object is given below in the Data Attributes section.
_dhcp_ip_id	INTEGER	The id of the IPAM subnet or host which is assigned to this DHCP Pool

## delete a DHCP Pool

Description	To delete a DHCP Pool, use the standard Resource-Delete functionality				
URL	/api/v1/api.php?target=resource&action=delete&id=2165				
Returns	<p><b>Examples:</b></p> <table> <tr> <td>SUCCESSFUL:</td><td><pre>{"success":1,"message":"Deleted 2165-another-subnet-3 (#2165)"}</pre></td></tr> <tr> <td>ERROR:</td><td><pre>{"success":0, "message":"error message"}</pre></td></tr> </table>	SUCCESSFUL:	<pre>{"success":1,"message":"Deleted 2165-another-subnet-3 (#2165)"}</pre>	ERROR:	<pre>{"success":0, "message":"error message"}</pre>
SUCCESSFUL:	<pre>{"success":1,"message":"Deleted 2165-another-subnet-3 (#2165)"}</pre>				
ERROR:	<pre>{"success":0, "message":"error message"}</pre>				

## assigning an IP address or blocks to a DHCP Pool

Description	Assigning IP addresses or blocks to a DHCP Pool resource removes them from the available pool so they cannot be assigned out again. This procedure uses all the standard IPAM assignment functions, so long as the resource assigned <b>from</b> is the DHCP Available resource.
URL	/api/v1/api.php?target=ipam&action=smartAssign&resourceId=2162&type=ipv4&mask=31&rir=1918&assignedResourceId=1282

Returns	<p><b>Examples:</b></p> <table> <tr> <td>SUCCESSFUL:</td><td>{ "success":1,"message":"Assigned 10.8.1.4V31 to 208.39.104.106 (2162) via Smart Assign","id":94468,"data":{"id":94468,"type":"ipv4","top_aggregate":44616,"cidr":"10.8.1.4V31","formatted_ip":"10.8.1.4V31","address":"168296708","end_address":"168296709","mask":31,"netmask":"255.255.255.254","child1":null,"child2":null,"is_assigned":1,"is_swipped":0,"is_aggregate":1,"custid":2162,"resource_id":2162,"resource_name":null,"last_updated_time":"2015-03-15 20:17:32","description":null,"parent":80882,"rir":"1918","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"Quito","region_name":"Quito","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-03-15 20:17:32","asn":null,"allowSubAssignments":false,"permissions":[],"range":"10.8.1.4 - 10.8.1.5","tags":["DHCP"]}}</td></tr> <tr> <td>ERROR:</td><td>{ "success":0, "message":"error message"}</td></tr> </table> <p><b>Return Detail:</b></p> <p>For a detailed breakdown of this endpoint's return data, please see the IPAM documentation.</p>	SUCCESSFUL:	{ "success":1,"message":"Assigned 10.8.1.4V31 to 208.39.104.106 (2162) via Smart Assign","id":94468,"data":{"id":94468,"type":"ipv4","top_aggregate":44616,"cidr":"10.8.1.4V31","formatted_ip":"10.8.1.4V31","address":"168296708","end_address":"168296709","mask":31,"netmask":"255.255.255.254","child1":null,"child2":null,"is_assigned":1,"is_swipped":0,"is_aggregate":1,"custid":2162,"resource_id":2162,"resource_name":null,"last_updated_time":"2015-03-15 20:17:32","description":null,"parent":80882,"rir":"1918","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"Quito","region_name":"Quito","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-03-15 20:17:32","asn":null,"allowSubAssignments":false,"permissions":[],"range":"10.8.1.4 - 10.8.1.5","tags":["DHCP"]}}	ERROR:	{ "success":0, "message":"error message"}
SUCCESSFUL:	{ "success":1,"message":"Assigned 10.8.1.4V31 to 208.39.104.106 (2162) via Smart Assign","id":94468,"data":{"id":94468,"type":"ipv4","top_aggregate":44616,"cidr":"10.8.1.4V31","formatted_ip":"10.8.1.4V31","address":"168296708","end_address":"168296709","mask":31,"netmask":"255.255.255.254","child1":null,"child2":null,"is_assigned":1,"is_swipped":0,"is_aggregate":1,"custid":2162,"resource_id":2162,"resource_name":null,"last_updated_time":"2015-03-15 20:17:32","description":null,"parent":80882,"rir":"1918","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"Quito","region_name":"Quito","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-03-15 20:17:32","asn":null,"allowSubAssignments":false,"permissions":[],"range":"10.8.1.4 - 10.8.1.5","tags":["DHCP"]}}				
ERROR:	{ "success":0, "message":"error message"}				

## get all DHCP Pool linkages

Description	The association between DHCP Pools and DHCP Modules belongs to the Resource Linkage family of endpoints. The 'relation' field should be set to the 'dhcpPoolLink' type to pull only DHCP Pool linkage information.																																					
URL	/api/v1/api.php?target=resource&action=getLink&relation=dhcpPoolLink																																					
Returns	<div>Examples:</div> <div><table><tr><td>SUCCESSFUL:</td><td>{ "success":1, "message":"Search successful", "data":{"meta":{"totalRecords":"3", "retrieved":3}, "0":{"id":"22", "resource_id1":"1292", "resource_id2":"1302", "relation":"dhcpPoolLink"}, "1":{"id":"2", "resource_id1":"1292", "resource_id2":"1452", "relation":"dhcpPoolLink"}, "2":{"id":"12", "resource_id1":"1422", "resource_id2":"1482", "relation":"dhcpPoolLink"}}}}</td></tr><tr><td>ERROR:</td><td>{ "success":0, "message":"error message"}</td></tr></table></div> <div>Return Detail:</div> <table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>id</td><td>INTEGER</td><td>Id of the pool-module linkage</td></tr><tr><td>resource_id1</td><td>INTEGER</td><td>The id of the dhcp_module resource</td></tr><tr><td>resource_id2</td><td>INTEGER</td><td>The id of the dhcp_pool resource</td></tr><tr><td>relation</td><td>STRING</td><td>The relation type. Always 'dhcpPoolLink'</td></tr></table> <div>Meta Attributes:</div> <table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>totalRecords</td><td>INTEGER</td><td>How many records were found by this query, without pagination.</td></tr><tr><td>retrieved</td><td>INTEGER</td><td>How many records were returned by this query, with pagination.</td></tr></table> <div>Optional Attributes:</div> <table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>resultsPerPage</td><td>INTEGER</td><td>How many records to include per page display.*</td></tr><tr><td>page</td><td>INTEGER</td><td>Which page to display, when used with "resultsPerPage"</td></tr></table> <div>*Example pagination: api.php?target=resource&amp;action=getLink&amp;relation=dhcpPoolLink&amp;resultsPerPage=100&amp;page=2</div>	SUCCESSFUL:	{ "success":1, "message":"Search successful", "data":{"meta":{"totalRecords":"3", "retrieved":3}, "0":{"id":"22", "resource_id1":"1292", "resource_id2":"1302", "relation":"dhcpPoolLink"}, "1":{"id":"2", "resource_id1":"1292", "resource_id2":"1452", "relation":"dhcpPoolLink"}, "2":{"id":"12", "resource_id1":"1422", "resource_id2":"1482", "relation":"dhcpPoolLink"}}}}	ERROR:	{ "success":0, "message":"error message"}	Name	Type	Description	id	INTEGER	Id of the pool-module linkage	resource_id1	INTEGER	The id of the dhcp_module resource	resource_id2	INTEGER	The id of the dhcp_pool resource	relation	STRING	The relation type. Always 'dhcpPoolLink'	Name	Type	Description	totalRecords	INTEGER	How many records were found by this query, without pagination.	retrieved	INTEGER	How many records were returned by this query, with pagination.	Name	Type	Description	resultsPerPage	INTEGER	How many records to include per page display.*	page	INTEGER	Which page to display, when used with "resultsPerPage"
SUCCESSFUL:	{ "success":1, "message":"Search successful", "data":{"meta":{"totalRecords":"3", "retrieved":3}, "0":{"id":"22", "resource_id1":"1292", "resource_id2":"1302", "relation":"dhcpPoolLink"}, "1":{"id":"2", "resource_id1":"1292", "resource_id2":"1452", "relation":"dhcpPoolLink"}, "2":{"id":"12", "resource_id1":"1422", "resource_id2":"1482", "relation":"dhcpPoolLink"}}}}																																					
ERROR:	{ "success":0, "message":"error message"}																																					
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id	INTEGER	Id of the pool-module linkage																																				
resource_id1	INTEGER	The id of the dhcp_module resource																																				
resource_id2	INTEGER	The id of the dhcp_pool resource																																				
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totalRecords	INTEGER	How many records were found by this query, without pagination.																																				
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Name	Type	Description																																				
resultsPerPage	INTEGER	How many records to include per page display.*																																				
page	INTEGER	Which page to display, when used with "resultsPerPage"																																				



## add a new DHCP Pool linkage

Description	Adds a new link between a DHCP Pool and a dhcp_module resource. A single pool can be linked to many dhcp_modules, and a single dhcp_module can have any number of linked pools.																
URL	/api/v1/api.php?target=resource&action=addLink&resource_id1=1292&resource_id2=2162&relation=dhcpPoolLink																
Returns	<div><b>Examples:</b><table><tr><td>SUCCESSFUL:</td><td>{ "success":1, "message":"Resource link added" }</td></tr><tr><td>ERROR:</td><td>{ "success":0, "message":"error message" }</td></tr></table></div> <div><b>Data Detail:</b><table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>resource_id1</td><td>INTEGER</td><td>The id of the dhcp_module resource</td></tr><tr><td>resource_id2</td><td>INTEGER</td><td>The id of the dhcp_pool resource</td></tr><tr><td>relation</td><td>STRING</td><td>The relation type being added. Always 'dhcpPoolLink'</td></tr></table></div>	SUCCESSFUL:	{ "success":1, "message":"Resource link added" }	ERROR:	{ "success":0, "message":"error message" }	Name	Type	Description	resource_id1	INTEGER	The id of the dhcp_module resource	resource_id2	INTEGER	The id of the dhcp_pool resource	relation	STRING	The relation type being added. Always 'dhcpPoolLink'
SUCCESSFUL:	{ "success":1, "message":"Resource link added" }																
ERROR:	{ "success":0, "message":"error message" }																
Name	Type	Description															
resource_id1	INTEGER	The id of the dhcp_module resource															
resource_id2	INTEGER	The id of the dhcp_pool resource															
relation	STRING	The relation type being added. Always 'dhcpPoolLink'															

## delete DHCP Pool linkages

Description	Deletes a link between a dhcp_module and a dhcp_pool. Uses the standard Resource Linkage endpoints.				
URL	/api/v1/api.php?target=resource&action=deleteLink&id=22				
Returns	<p><b>Examples:</b></p> <table><tr><td>SUCCESSFUL:</td><td>{"success":1,"message":"Resource link(s) deleted."}</td></tr><tr><td>ERROR:</td><td>{"success":0, "message":"error message"}</td></tr></table>	SUCCESSFUL:	{"success":1,"message":"Resource link(s) deleted."}	ERROR:	{"success":0, "message":"error message"}
SUCCESSFUL:	{"success":1,"message":"Resource link(s) deleted."}				
ERROR:	{"success":0, "message":"error message"}				

## push a DHCP config

Description	Builds a DHCP configuration from the attributes assigned to a dhcp_module and all of the linked dhcp_pools. Pushes that config to the configured DHCP server, tests it against the config parsing function, then restarts the server with the new configuration.
URL	/api/v1/api.php?target=dhcp&action=push&id=1292

Returns

Examples:

SUCCESSFUL:	{ "success":1,"message":"Pushes Attempted.", "data":[[1,"1292","381 DHCP Module","Configuration successfully pushed."]]}
ERROR:	{ "success":0, "message":"error message"}

Data Detail

Name	Type	Description
id	INTEGER	The id of the dhcp_module resource whose configuration is to be pushed.

## DHCP search

Description	Searches DHCP information by name, mac, or IP.																																								
URL	/api/v1/api.php?target=dhcp&action=search&searchType=name&searchValue=Blah  /api/v1/api.php?target=dhcp&action=search&searchType=mac&searchValue=22:  /api/v1/api.php?target=dhcp&action=search&searchType=ip&searchValue=13.0.0.255																																								
Returns	<div>Examples:</div> <table><tr><td>SUCCESSFUL:</td><td>{ "success":1, "message": "Search Successful", "data": [{"id": "1482", "name": "BlahBlah", "slug": "blah", "type": "dhcp_pool", "parent_id": "1", "category_id": null, "attr": { "_dhcp_type": "subnet", "_dhcp_pool_attributes": { "\mac\": "\\", "rangeStart\": "13.0.0.0\", "rangeEnd\": "13.0.0.255\", "freeLines\": 0 }, "_dhcp_ip_id": "80902", "dhcp_links": [ "1422", "3673" ] } } ] }</td></tr><tr><td>ERROR:</td><td>{ "success":0, "message": "error message" }</td></tr></table> <div>Return Detail</div> <table><tr><th>Name</th><th>Type</th><th>Description</th></tr><tr><td>id</td><td>INTEGER</td><td>ID of the dhcp_module resource</td></tr><tr><td>name</td><td>STRING</td><td>The name of the dhcp_module</td></tr><tr><td>slug</td><td>STRING</td><td>The unique reference string for this resource</td></tr><tr><td>type</td><td>STRING</td><td>Always 'dhcp_pool'</td></tr><tr><td>parent_id</td><td>INTEGER</td><td>The resource to which the dhcp_module is attached</td></tr><tr><td>category_id</td><td>INTEGER</td><td>The category to which this dhcp_module is associated</td></tr></table> <div>Attributes</div> <table><tr><th>Key</th><th>Type</th><th>Description</th></tr><tr><td>_dhcp_type</td><td>STRING</td><td>Either 'subnet' or 'host'. Determines whether this DHCP Pool is describing a Subnet or a Host.</td></tr><tr><td>_dhcp_pool_attributes</td><td>JSON</td><td>A JSON-encoded string containing all the specific configuration parameters which govern this DHCP Pool. An expansion of the JSON object is given below in the Data Attributes section.</td></tr><tr><td>_dhcp_ip_id</td><td>INTEGER</td><td>The id of the IPAM subnet or host which is assigned to this DHCP Pool.</td></tr><tr><td>_dhcp_links</td><td>INTEGER</td><td>The id of dhcp links.</td></tr></table>	SUCCESSFUL:	{ "success":1, "message": "Search Successful", "data": [{"id": "1482", "name": "BlahBlah", "slug": "blah", "type": "dhcp_pool", "parent_id": "1", "category_id": null, "attr": { "_dhcp_type": "subnet", "_dhcp_pool_attributes": { "\mac\": "\\", "rangeStart\": "13.0.0.0\", "rangeEnd\": "13.0.0.255\", "freeLines\": 0 }, "_dhcp_ip_id": "80902", "dhcp_links": [ "1422", "3673" ] } } ] }	ERROR:	{ "success":0, "message": "error message" }	Name	Type	Description	id	INTEGER	ID of the dhcp_module resource	name	STRING	The name of the dhcp_module	slug	STRING	The unique reference string for this resource	type	STRING	Always 'dhcp_pool'	parent_id	INTEGER	The resource to which the dhcp_module is attached	category_id	INTEGER	The category to which this dhcp_module is associated	Key	Type	Description	_dhcp_type	STRING	Either 'subnet' or 'host'. Determines whether this DHCP Pool is describing a Subnet or a Host.	_dhcp_pool_attributes	JSON	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP Pool. An expansion of the JSON object is given below in the Data Attributes section.	_dhcp_ip_id	INTEGER	The id of the IPAM subnet or host which is assigned to this DHCP Pool.	_dhcp_links	INTEGER	The id of dhcp links.
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Required Parameters	<b>Name</b>	<b>Type</b>	<b>Example</b>	<b>Description</b>
	searchType	STRING	name	Type of search performing. Valid values are 'name', 'mac', and 'ip'.
	searchValue	STRING	Blah	If searchType is 'IP': searchValue must be a valid IP address or IP Block.  if searchType is 'mac': searchValue must be a full or partial mac address.  Not required if searchType is 'name', but is recommended to filter results.
Optional Parameters	<b>Name</b>	<b>Type</b>	<b>Example</b>	<b>Description</b>
	selectOffset	INTEGER	10	Start number for the first result to show on the page to set pagination. For example, a selectOffset=15 with a selectCount=10 would return result numbers 15 through 25 on the page. Default value is 0 if not specified.
	selectCount	INTEGER	5	The number of results to return on the page, if return results exceed the number of selectCount. Default value is 10
	linkedTo	INTEGER	1422	The ID of the resource's DHCP link(s)

## Data Attributes

<b>_dhcp_attributes</b>	
Description	The _dhcp_attributes data attribute holds the specific settings used to generate a DHCP configuration file, place it on a server via SCP, and restart that server via a SSH session.
Example:	<pre>{ "type": "ISC", "notes": "notes here", "username": "username", "port": "22", "config_test": "/etc/init.d/dhcpd configtest", "server_stop": "/etc/init.d/dhcpd stop", "server_start": "/etc/init.d/dhcpd start", "config_path": "/tmp/dhcpd.conf", "option_routers": "", "option_domain_name_servers": "", "option_domain_name": "", "authoritative": "1", "default_lease_time": "600", "max_lease_time": "7200", "local_port": "67", "log_facility": "local7", "password": "", "server_ip": "10.0.0.0", "freeLines": 0 }</pre>

**Data Description**

Name	Type	Description
type	STRING	The type of DHCP server being administered. Currently only 'ISC' is supported.
notes	STRING	Notes associated with this DHCP server
server_ip	STRING	The IP address of the DHCP server
username	STRING	The SSH username employed when transferring the DHCP configuration file to the server.
password	STRING	The SSH password employed when transferring the DHCP configuration file to the server.
port	INTEGER	The SSH port employed when transferring the DHCP configuration file to the server.
config_test	STRING	The command to test if a configuration file parses correctly. ex: /etc/init.d/dhcpd configtest
server_stop	STRING	The command to stop the DHCP server. ex: /etc/init.d/dhcpd stop
server_start	STRING	The command to start the DHCP server. ex: /etc/init.d/dhcpd start
config_path	STRING	Where to place the configuration file on the server.
authoritative	BOOL	Whether or not this DHCP server is authoritative.
default_lease_time	INTEGER	The default lease time for IPs distributed by this DHCP server.
max_lease_time	INTEGER	The max lease time for IPs distributed by this DHCP server.
local_port	INTEGER	The port on which this DHCP server listens
option_routers	STRING	The information which populates the "routers" option in the DHCP configuration
option_domain_name_servers	STRING	The information which populates the "domain_name_servers" option in the DHCP configuration
option_domain_name	STRING	The information which populates the "domain_name" option in the DHCP configuration
log_facility	STRING	The log facility to which this DHCP Server sends its logging information
freeLines	INTEGER	As this system cannot hope to support all the thousands of different DHCP configurations, ProVision's DHCPv2 system includes a mechanism for adding "free lines" to the end of certain DHCP config sections so that administrators can customize their DHCP config file to their needs. The "freeLines" field indicates how many of these lines exist to be inserted after the general server definition section but before the subnets and hosts are enumerated.
freeLine#	STRING	Free line data to be inserted after the general server definition section but before the subnets and hosts are enumerated. There can be multiple instances of this attribute, numbered appropriately. ex: "freeLine1", "freeLine2", "freeLine3", etc. The number of freeLine# entries must match the number in the "freeLines" attribute.

**\_dhcp\_pool\_attributes**

Description	A JSON-encoded string containing all the specific configuration parameters which govern this DHCP Pool.
Example:	{"mac":"ab:cc:de:ff:aa:bc","rangeStart":"13.0.0.0","rangeEnd":"13.0.0.255","freeLines":1,"freeLines1":"free line"}

**Data Description**

Name	Type	Description
mac	STRING	Only used when setting up a DHCP Host-type Pool. Holds the MAC address of the system to which the IP will be associated.
rangeStart	STRING	Only used when setting up a DHCP Subnet-type Pool. Holds the beginning of the Subnet range being allocated.
rangeEnd	STRING	Only used when setting up a DHCP Subnet-type Pool. Holds the end of the Subnet range being allocated.
freeLines	INTEGER	As this system cannot hope to support all the thousands of different DHCP configurations, ProVision's DHCPv2 system includes a mechanism for adding "free lines" to the end of certain DHCP config sections so that administrators can customize their DHCP config file to their needs. The "freeLines" field indicates how many of these lines exist to be inserted within the DHCP Pool declaration.
freeLine#	STRING	Free line data to be inserted after the general server definition section but before the subnets and hosts are enumerated. There can be multiple instances of this attribute, numbered appropriately. ex: "freeLine1", "freeLine2", "freeLine3", etc. The number of freeLine# entries must match the number in the "freeLines" attribute.