

Increase quota for a Org

We will see how we increase the quota plan for an Org. The example Org here is ShowDB

1. First get GUID for Org by running following command:

```
CF_TRACE=true cf org ShowDB | grep -B7 ShowDB
```

2. Our output was:

```
[root@aoadbld00032lc openplatform]# CF_TRACE=true cf org ShowDB | grep -B7 ShowDB
  "metadata": {
    "guid": "4cf7b766-8ec8-46e4-927b-5135fca623f3",
    "url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3",
    "created_at": "2016-03-10T00:51:49Z",
    "updated_at": null
  },
  "entity": {
    "name": "ShowDB",
--
    "space_quota_definitions": [

  ]
}
}
]
}
```

3. The GUID we found is: "guid": **"4cf7b766-8ec8-46e4-927b-5135fca623f3"**

4. To find out the current Org quota plan run by passing the GUID we fetched earlier:

```
$cf curl /v2/organizations/MY-ORGANIZATION-GUID -X 'GET' | grep quota_definition_guid
```

```
cf curl /v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3 -X 'GET' | grep
quota_definition_guid
```

5. It will return a quota_definition_guid which is as follows:

```
"quota_definition_guid": "1ab1358b-4b1a-4e76-a95d-87901763037f"
```

6. Verify this and check what the quota plan is. It might look like insufficient. Also you can check in cf CLI with below command for the quota plan in that Org (e.g. ShowDB)

```
[root@aoadbld00032lc openplatform]# cf quotas
Getting quotas as admin...
OK
```

name	total memory limit	instance memory limit	routes	service instances	paid
service plans					
default	10G	unlimited	1000	100	allowed
runaway	100G	unlimited	1000	unlimited	allowed
p-spring-cloud-services	150G	unlimited	1000	unlimited	allowed
NewRelicServiceBroker-service-quota	512M	unlimited	10	10	disallowed

7. Create a quota with suitable quota-plan a name:

```
$ cf create-quota QUOTA [-m TOTAL_MEMORY] [-i INSTANCE_MEMORY] [-r ROUTES] [-s SERVICE_INSTANCES] [--allow-paid-service-plans]
```

Options include:

-m – Total amount of memory.

-i – Maximum amount of memory an application instance can have. -1 represents an unlimited amount.

-r – Total number of routes.

-s – Total number of service instances.

--allow-paid-service-plans – Can provision instances of paid service plans

```
cf create-quota showdb-updated -m 20480M -i -1 -r 1000 -s 100 --allow-paid-service-plans
```

Here we have added a quota with 20GB memory and max memory allocation as -1 (unlimited) with maximum 100 routes and 100 instances.

8. View available quota plans and select the quota plan GUID you want:

```
[root@aoadbld00032lc openplatform]# cf curl /v2/quota_definitions -X 'GET'
{
  "total_results": 5,
  "total_pages": 1,
  "prev_url": null,
  "next_url": null,
  "resources": [
    {
      "metadata": {
```

```
"guid": "1ab1358b-4b1a-4e76-a95d-87901763037f",
"url": "/v2/quota_definitions/1ab1358b-4b1a-4e76-a95d-87901763037f",
"created_at": "2015-07-10T21:50:27Z",
"updated_at": null
},
"entity": {
  "name": "default",
  "non_basic_services_allowed": true,
  "total_services": 100,
  "total_routes": 1000,
  "total_private_domains": -1,
  "memory_limit": 10240,
  "trial_db_allowed": false,
  "instance_memory_limit": -1,
  "app_instance_limit": -1
}
},
{
  "metadata": {
    "guid": "650ab62b-ce52-4a92-b8ab-f181ffe78ece",
    "url": "/v2/quota_definitions/650ab62b-ce52-4a92-b8ab-f181ffe78ece",
    "created_at": "2015-07-10T21:50:27Z",
    "updated_at": null
  },
  "entity": {
    "name": "runaway",
    "non_basic_services_allowed": true,
    "total_services": -1,
    "total_routes": 1000,
    "total_private_domains": -1,
    "memory_limit": 102400,
    "trial_db_allowed": false,
    "instance_memory_limit": -1,
    "app_instance_limit": -1
  }
},
{
  "metadata": {
    "guid": "33de5e51-d487-4662-8325-edf6769e00d0",
    "url": "/v2/quota_definitions/33de5e51-d487-4662-8325-edf6769e00d0",
    "created_at": "2015-07-22T15:58:34Z",
    "updated_at": "2016-03-10T21:27:11Z"
  },
  "entity": {
    "name": "p-spring-cloud-services",
    "non_basic_services_allowed": true,
    "total_services": -1,
    "total_routes": 1000,
    "total_private_domains": -1,
```

```

        "memory_limit": 153600,
        "trial_db_allowed": false,
        "instance_memory_limit": -1,
        "app_instance_limit": -1
    }
},
{
    "metadata": {
        "guid": "dce27616-69e6-4a0b-96ac-8b397c415594",
        "url": "/v2/quota_definitions/dce27616-69e6-4a0b-96ac-8b397c415594",
        "created_at": "2015-11-16T19:20:07Z",
        "updated_at": "2016-03-14T15:41:03Z"
    },
    "entity": {
        "name": "NewRelicServiceBroker-service-quota",
        "non_basic_services_allowed": false,
        "total_services": 10,
        "total_routes": 10,
        "total_private_domains": -1,
        "memory_limit": 512,
        "trial_db_allowed": false,
        "instance_memory_limit": -1,
        "app_instance_limit": -1
    }
},
{
    "metadata": {
        "guid": "28fcfdf9-13a7-43cc-a3ec-6de4ad871321",
        "url": "/v2/quota_definitions/28fcfdf9-13a7-43cc-a3ec-6de4ad871321",
        "created_at": "2016-03-15T18:54:55Z",
        "updated_at": null
    },
    "entity": {
        "name": "showdb-updated",
        "non_basic_services_allowed": true,
        "total_services": 100,
        "total_routes": 1000,
        "total_private_domains": -1,
        "memory_limit": 20480,
        "trial_db_allowed": false,
        "instance_memory_limit": -1,
        "app_instance_limit": -1
    }
}
]
}

```

Also can be verified by running cf quotas and checking the value in columns:

```
[root@aoadbld00032lc openplatform]# cf quotas
Getting quotas as admin...
OK
```

name	total memory limit	instance memory limit	routes	service instances	paid
service plans					
default	10G	unlimited	1000	100	allowed
runaway	100G	unlimited	1000	unlimited	allowed
p-spring-cloud-services	150G	unlimited	1000	unlimited	allowed
NewRelicServiceBroker-service-quota	512M	unlimited	10	10	disallowed
showdb-updated	20G	unlimited	1000	100	allowed

```
[root@aoadbld00032lc openplatform]#
```

9. Change the Quota Plan by running following command:

```
cf curl /v2/organizations/MY-ORGANIZATION-GUID -X 'PUT' -d
"{\"quota_definition_guid\":\"NEW-QUOTA-PLAN-GUID\"}"

cf curl /v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3 -X 'PUT' -d
"{\"quota_definition_guid\":\"28fcdf9-13a7-43cc-a3ec-6de4ad871321\"}"
```

Where

4cf7b766-8ec8-46e4-927b-5135fca623f3 is ORGANIZATION-GUID

And

28fcdf9-13a7-43cc-a3ec-6de4ad871321 is new quota_definition_guid

10. Output of above query:

```
[root@aoadbld00032lc openplatform]# cf curl /v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3 -X 'PUT' -d "{\"quota_definition_guid\":\"28fcdf9-13a7-43cc-a3ec-6de4ad871321\"}"
{
  "metadata": {
    "guid": "4cf7b766-8ec8-46e4-927b-5135fca623f3",
    "url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3",
    "created_at": "2016-03-10T00:51:49Z",
    "updated_at": "2016-03-15T18:57:30Z"
  },
  "entity": {
    "name": "ShowDB",
    "billing_enabled": false,
    "quota_definition_guid": "28fcdf9-13a7-43cc-a3ec-6de4ad871321",
    "status": "active",
    "quota_definition_url": "/v2/quota_definitions/28fcdf9-13a7-43cc-a3ec-6de4ad871321",
    "spaces_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/spaces",
    "domains_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/domains",
```

```
"private_domains_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/private_domains",
"users_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/users",
"managers_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/managers",
"billing_managers_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/billing_managers",
"auditors_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/auditors",
"app_events_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/app_events",
"space_quota_definitions_url": "/v2/organizations/4cf7b766-8ec8-46e4-927b-5135fca623f3/space_quota_definitions"
}
}
```

11. Go and check the Org in apps console in PCF. The quotas are increased according to set value.

