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Buying a VPS through the API

What You Can Automate

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Buying a VPS through the API

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In short: you buy a VPS through the API with `POST /v1/services/purchase`: the plan, the billing cycle and, if you like, the system and other options. It is paid from your account credit only, at the same price you would see in Meu MozOut, and with the Reseller Program it already carries your Agence discount. Cloud servers are bought the same way. The terms are on the **server reseller page**.

The key you need

For	Permission
Reading plans, options and prices	`catalog:read`
Reading your credit	`billing:read`
Buying from credit	`billing:purchase` (sensitive, off by default)
Write access to the servers area, which the purchase also needs	`vps:write`

Give this key a spending limit that fits what you usually buy. It is the most it can spend in 30 days, and a purchase over it is refused before anything is charged. Keys are created on the **API page in Meu MozOut**, and **creating an API key** walks you through it.

From plan to server, step by step

1. **Find the plan.** `GET /v1/catalog/products` lists what is on sale; you can filter with `group_id`. `kind` tells you what each product is and `purchasable` whether it can be bought through the API.

2. **Open the plan** with `GET /v1/catalog/products/{id}`. You get the cycles that have a price, the options (such as system and panel) and your price in `price`.

3 **Check your credit** with `GET /v1/billing/credit`.

4 **Buy** with `POST /v1/services/purchase`: `product_id`, `billing_cycle` and, optionally, `config_options`. The `Idempotency-Key` header is required: build it from your client's order number. If the connection drops, retry with the same value and you will not buy twice.

5 **Keep the response.** It has `service_id`, `invoice_id` and `amount`, the total including tax. Once paid, the server opens just as an order placed in Meu MozOut would: follow it with `GET /v1/services/{id}`.

Here is the request, with the example numbers from the documentation (plan `51`, system option `51` and choice `239`). Yours come from the catalog:

```
curl https://api.mozout.co.mz/v1/services/purchase -X POST \
-H "Authorization: Bearer $MOZOUT_API_KEY" \
-H "Content-Type: application/json" \
-H "Idempotency-Key: order-2051-vps" \
-d '{"product_id": 51, "billing_cycle": "monthly", "config_options": {"51": 239}}'
```

To know when the server is ready without asking over and over,
save a webhook with `PUT /v1/webhooks` (needs `webhooks:write`) and pick the `service.created` event: it arrives when the service is created on the server, with `service_id`, `name` and `domain`.

The answers you will come across

Answer	When	What to do
`402 insufficient_credit`	Not enough credit. Nothing was charged.	Top up your credit and try again.
`403 spending_limit_exceeded`	The purchase goes over the key's spending limit. Nothing was charged.	Use a key with a higher limit.
`409 profile_incomplete`	The account profile is not complete.	Complete it in Meu MozOut.
`422 incompatible_options`	A combination that does not exist, such as Windows with a cPanel licence.	Pick another option.
`422 promo_not_applicable`	The promo code does not apply to this purchase. Nothing was charged.	Buy without it, or with another one.

Answer	When	What to do
`429 rate_limited`	You went over 5 purchases per minute.	Wait the seconds in `Retry-After`.

If the invoice does not match the price, the purchase is undone and nothing is charged.
For a dedicated server, if `purchasable` is `false`, `not_purchasable_reason` explains why and the answer includes a link to buy it in Meu MozOut. With a `sandbox_` key nothing is created: use it to test your program. See **Sandbox or Production**.

After the purchase

To keep track of whose server is whose, tag it with your client's name using `PUT /v1/reseller/customers/service/{id}` (needs `reseller:write`):

```
curl https://api.mozout.co.mz/v1/reseller/customers/service/1470 -X PUT \
-H "Authorization: Bearer $MOZOUT_API_KEY" \
-H "Content-Type: application/json" \
-d '{"name": "João Fernandes"}'
```

Two things for later. A VPS renewal cycle cannot be changed through the API: it answers `409 vps_not_supported`, because the amount may include add-ons. A bigger plan, on the other hand, is requested with `POST /v1/services/{id}/upgrade`, also paid from credit. What you can do on the server next is in **controlling a VPS through the API**.

RECOMMENDED
Ready to buy servers for your clients at a discount? See the server reseller page and apply.
See server reselling →

SEE ALSO

- **Catalogue and extras through the API: showing prices on your site and buying SSL or SiteLock**
- **Sensitive API permissions and the spending limit: paying, buying, reinstalling, cPanel access**
- **Idempotency-Key in our API: repeating a purchase, payment or ticket without doing it twice**
- **Long-running API operations: the 202 answer, the action_id and following the result**

- The API for resellers and agencies: account, reseller programs and what the API does not cover
- API Sandbox or Production: what each key really does, and moving your program to production

MozOut Mozambique

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