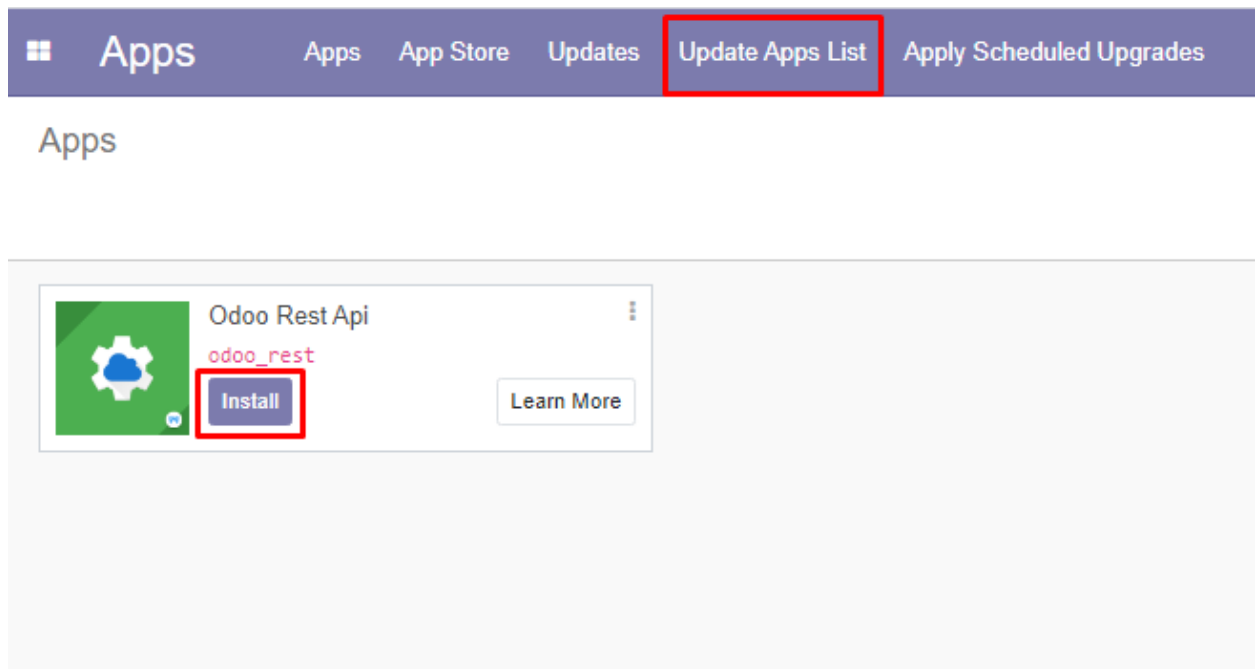


# Odoo Rest Documentation

## Setup

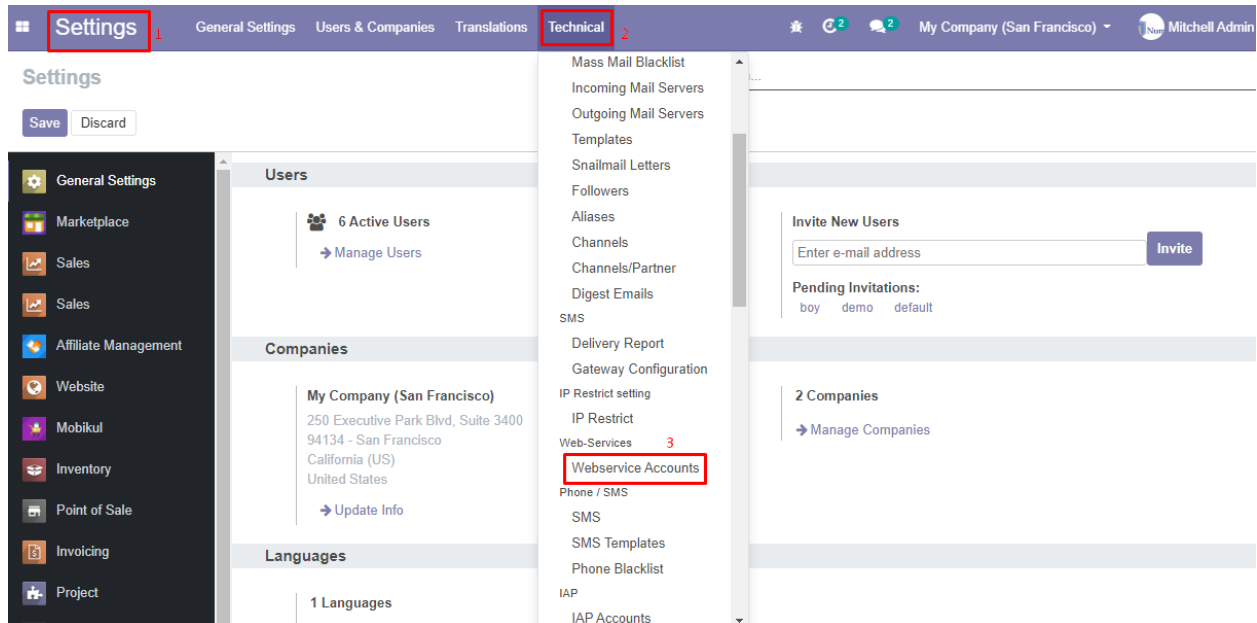
### Step 1:

- i. Move the module to your custom addons path.
- ii. Restart the server.
- iii. Update the module app list.
- iv. Install the module.



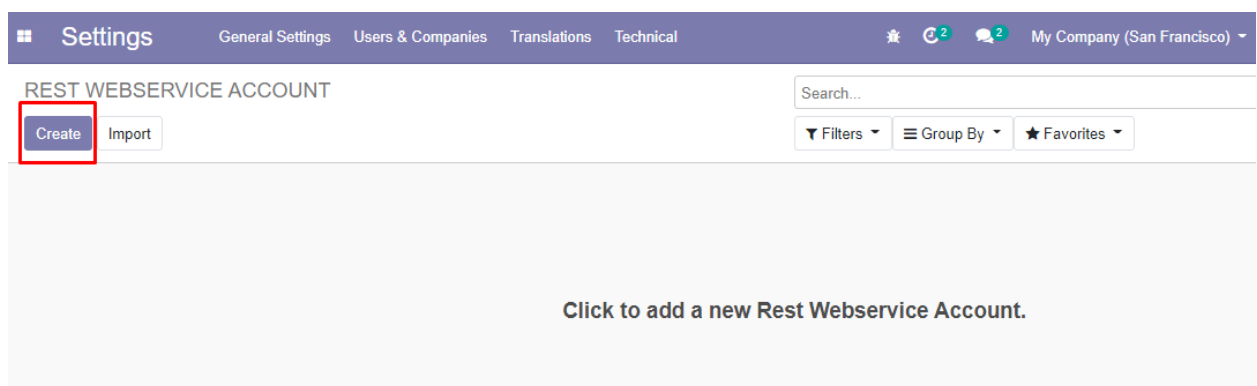
## Step 2:

Go to Settings (in debug mode) --> Technical --> Webservices Accounts



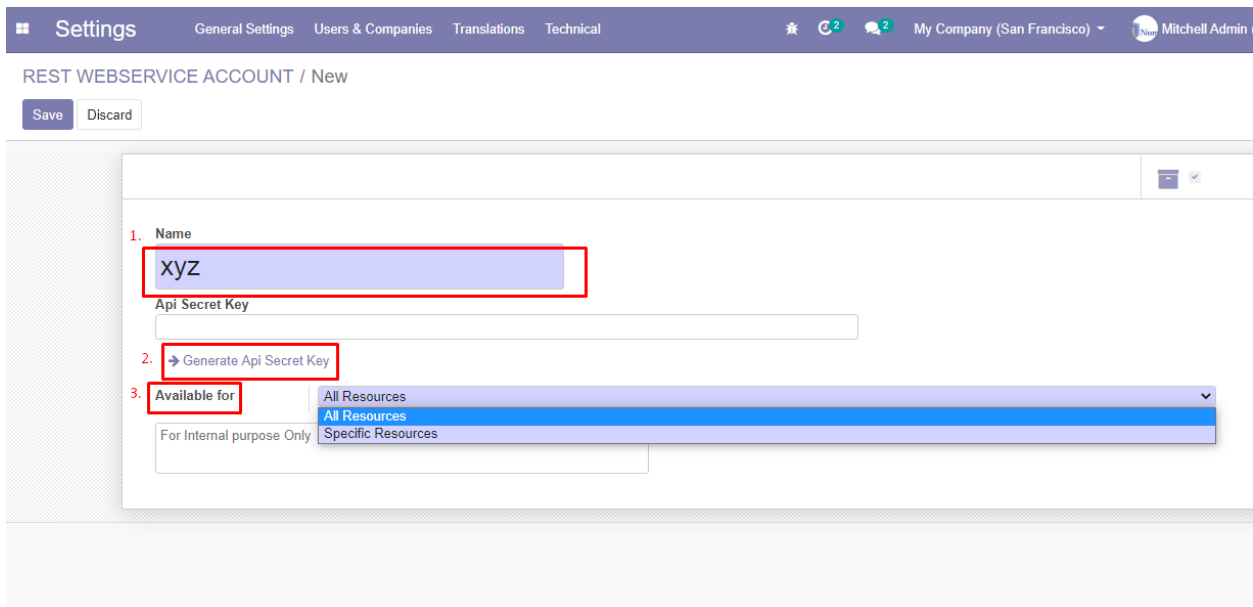
## Step 3:

Create a Webservice record.



## Step 4:

- i. Fill the name field with any text data of your choice.
- ii. Click on the button “Generate Api Secret Key”.
- iii. Set the option for “Available Resources”.
  - a. All Resources
  - b. Specific Resources



The screenshot shows the 'REST WEBSERVICE ACCOUNT / New' form in the Odoo Settings application. The form has a purple header bar with navigation links: 'Settings', 'General Settings', 'Users & Companies', 'Translations', and 'Technical'. On the right of the header, there are icons for a star, a refresh button with a '2' badge, a chat icon with a '2' badge, and a dropdown menu showing 'My Company (San Francisco)' and a user profile for 'Mitchell Admin'. Below the header, the form title 'REST WEBSERVICE ACCOUNT / New' is displayed, followed by 'Save' and 'Discard' buttons. The form fields are numbered 1 through 3. Field 1, 'Name', contains the text 'xyz' and is highlighted with a red rectangle. Field 2, 'Api Secret Key', is empty. Below it is a button labeled 'Generate Api Secret Key' with a right-pointing arrow, also highlighted with a red rectangle. Field 3, 'Available for', is a dropdown menu with 'All Resources' selected and highlighted with a red rectangle. The dropdown menu is open, showing three options: 'All Resources' (selected), 'All Resources' (highlighted in blue), and 'Specific Resources'. Below the dropdown is a checkbox labeled 'For Internal purpose Only'.

## Step 4:

If selected “specific Resources”.

- i. Add the name of the model which you want to provide access to the `odoo_rest` modules.
- ii. Then set the read, write, create, delete permission for that model.

Settings General Settings Users & Companies Translations Technical My Company (San Francisco) Mitchell Admin (web)

REST WEBSERVICE ACCOUNT / New

Save Discard

Name  
xyz

Api Secret Key

→ Generate Api Secret Key

Available for Specific Resources

Set the resource permissions for this key:

Resource	Rea...	Writ...	Cre...	Unli...
Product Template	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add a line

☐ For Internal purpose Only

## JSON representation of Odoo Rest API

**Example 1: Search record from product.product**  
**Request Type : GET**

**Api : {base\_url}}/api/{model\_name}}/search?{domain=[filter or empty]}&{ fields=list of fields name or None}**

**End Point :**

**{base\_url}}/api/product.template/search?domain=[('id','in',[13,10,11,12,14])]&fields=['name','description','product\_variant\_ids']**

**Header :**

**{"api\_key":"xx"}**

**Output:**

```

{
  "object_name": "product.template",
  "responseCode": 2,
  "fields": "[ 'name', 'description', 'product_variant_ids' ]",
  "model_id": 145,
  "permissions": {
    "read": true,
    "create": true,
    "delete": true,
    "write": true
  },
  "message": "Allowed all Models Permission: all",
  "success": true,
  "domain": "[ ( 'id', 'in', [ 13, 10, 11, 12, 14 ] ) ]",
  "data": [
    {
      "id": 11,
      "name": "Bose Mini Bluetooth Speaker",
      "description": false,
      "product_variant_ids": [
        {
          "id": 14,
          "name": "Bose Mini Bluetooth Speaker"
        }
      ]
    },
    {
      "id": 14,
      "name": "iPad Mini",
      "description": false,
      "product_variant_ids": [
        {
          "id": 17,
          "name": "iPad Mini"
        }
      ]
    },
    {
      "id": 10,
      "name": "iPad Retina Display",
      "description": false,
      "product_variant_ids": [
        {
          "id": 10,
          "name": "iPad Retina Display"
        },
        {
          "id": 11,
          "name": "iPad Retina Display"
        },
        {
          "id": 12,
          "name": "iPad Retina Display"
        }
      ]
    },
    {
      "id": 12,
      "name": "Custom Computer (kit)",
      "description": "Custom computer shipped in kit.",
      "product_variant_ids": [
        {
          "id": 15,
          "name": "Custom Computer (kit)"
        }
      ]
    }
  ]
}

```

```

    ]
  },
  {
    "id": 13,
    "name": "Parts Replacement",
    "description": false,
    "product_variant_ids": [
      {
        "id": 16,
        "name": "Parts Replacement"
      }
    ]
  }
]
}
}}

```

## Example 2: Get schema for table product.product

Request Type : GET

Api: {{base\_url}}/api/{{model\_name}}/schema

End Point : {{base\_url}}/api/res.lang/schema

Header :

{"api\_key":"xx"}

```

{
  "responseCode": 2,
  "model_id": 73,
  "permissions": {
    "read": true,
    "create": true,
    "delete": true,
    "write": true
  },
  "message": "Allowed all Models Permission: all",
  "object_name": "res.lang",
  "success": true,
  "data": [
    {
      "field_type": "char",
      "label": "Name",
      "readonly": false,
      "required": true,
      "field_name": "name"
    },
    {
      "field_type": "char",
      "label": "Locale Code",
      "readonly": false,
      "required": true,
      "field_name": "code"
    },
    {
      "field_type": "char",
      "label": "ISO code",
      "readonly": false,
      "required": false,

```

```

        "field_name": "iso_code"
    },
    {
        "field_type": "boolean",
        "label": "Translatable",
        "readonly": false,
        "required": false,
        "field_name": "translatable"
    },
    {
        "field_type": "boolean",
        "label": "Active",
        "readonly": false,
        "required": false,
        "field_name": "active"
    },
    {
        "readonly": false,
        "field_name": "direction",
        "field_type": "selection",
        "label": "Direction",
        "required": true,
        "selection": [
            [
                "ltr",
                "Left-to-Right"
            ],
            [
                "rtl",
                "Right-to-Left"
            ]
        ]
    },
    {
        "field_type": "char",
        "label": "Date Format",
        "readonly": false,
        "required": true,
        "field_name": "date_format"
    },
    {
        "field_type": "char",
        "label": "Time Format",
        "readonly": false,
        "required": true,
        "field_name": "time_format"
    },
    {
        "field_type": "char",
        "label": "Separator Format",
        "readonly": false,
        "required": true,
        "field_name": "grouping"
    },
    {
        "field_type": "char",
        "label": "Decimal Separator",
        "readonly": false,
        "required": true,
        "field_name": "decimal_point"
    },
    {
        "field_type": "char",
        "label": "Thousands Separator",
        "readonly": false,

```

```

        "required": false,
        "field_name": "thousands_sep"
    },
    {
        "field_type": "integer",
        "label": "ID",
        "readonly": true,
        "required": false,
        "field_name": "id"
    },
    {
        "field_type": "char",
        "label": "Display Name",
        "readonly": true,
        "required": false,
        "field_name": "display_name"
    },
    {
        "field_type": "many2one",
        "label": "Created by",
        "readonly": false,
        "required": false,
        "field_name": "create_uid"
    },
    {
        "field_type": "datetime",
        "label": "Created on",
        "readonly": false,
        "required": false,
        "field_name": "create_date"
    },
    {
        "field_type": "many2one",
        "label": "Last Updated by",
        "readonly": false,
        "required": false,
        "field_name": "write_uid"
    },
    {
        "field_type": "datetime",
        "label": "Last Updated on",
        "readonly": false,
        "required": false,
        "field_name": "write_date"
    },
    {
        "field_type": "datetime",
        "label": "Last Modified on",
        "readonly": true,
        "required": false,
        "field_name": "__last_update"
    }
}
]
}

```



## Request Type : POST

**Body :**{ “field\_name”:”field\_value”,.....}

**Body :{"name":"test"}**

```
{"api_key": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
```

```
response : {
    "responseCode": 2,
    "model_id": 145,
    "permissions": {
        "read": true,
        "create": true,
        "delete": true,
        "write": true
    },
    "message": "Allowed all Models Permission: all",
    "create_id": 75,
    "object_name": "product.template",
    "success": true
}
```

**Request Type :GET**

**End Point : {{base\_url}}/api/sale.order.line/<int: record\_id>**

```
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
```

## OUTPUT:

```
{
  "object_name": "sale.order.line",
  "responseCode": 2,
  "model_id": 241,
  "record_id": 2,
  "message": "Allowed all Models Permission: all",
  "success": true,
  "permissions": {
    "read": true,
    "create": true,
    "delete": true,
    "write": true
  },
  "data": [
    {
      "sequence": 10,
      "__last_update": "2017-10-04 11:28:01",
      "is_downpayment": false,
      "price_tax": 0,
      "customer_lead": 0,
      "create_uid": [
        {
          "id": 1,
          "name": "Administrator"
        }
      ],
      "price_unit": 145,
      "product_qty": 5,
      "salesman_id": [
        {
          "id": 5,
          "name": "Demo User"
        }
      ],
      "amt_invoiced": 0,
      "id": 2,
      "product_packaging": [],
      "qty_delivered": 0,
      "price_reduce_taxinc": 145,
      "price_reduce": 145,
      "price_total": 725,
      "move_ids": [],
      "layout_category_id": [],
      "route_id": [],
      "create_date": "2017-10-04 11:28:01",
      "currency_id": [
        {
          "id": 1,
          "name": "EUR"
        }
      ],
      "product_id": [
        {
          "id": 5,
          "name": "Datacard"
        }
      ],
      "write_date": "2017-10-04 11:28:01",
      "warning_stock": false,
      "amt_to_invoice": 725,
      "price_reduce_taxexcl": 145,
    }
  ]
}
```

```

        "write_uid": [
            {
                "id": 1,
                "name": "Administrator"
            }
        ],
        "company_id": [
            {
                "id": 1,
                "name": "YourCompany"
            }
        ],
        "name": "Pen drive, 16GB",
        "product_uom_qty": 5,
        "qty_to_invoice": 0,
        "price_subtotal": 725,
        "is_delivery": false,
        "invoice_status": "no",
        "product_uom": [
            {
                "id": 1,
                "name": "Unit(s)"
            }
        ],
        "qty_invoiced": 0,
        "state": "draft",
        "order_id": [
            {
                "id": 1,
                "name": "S0001"
            }
        ],
        "display_name": "Pen drive, 16GB",
        "order_partner_id": [
            {
                "id": 9,
                "name": "Agrolait"
            }
        ],
        "product_image": "",
        "layout_category_sequence": 0,
        "discount": 0,
        "qty_delivered_updateable": false
    }
}

```

## Exapmle 5: Update a record of product.template

Type : PUT

Api : `{{base_url}}/api/{{model_name}}/<int: record_id>`

Body: `{“field_name”:”field_value”}`

End Point : `{{base_url}}/api/product.template/<int: record_id>`

### Header :

```
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
```

**Body:**{“name”:”Test Product”}

## OUTPUT:

```
{
    "responseCode": 2,
    "model_id": 145,
    "permissions": {
        "read": true,
        "create": true,
        "delete": true,
        "write": true
    },
    "message": "Allowed all Models Permission: all",
    "create_id": 75,
    "object_name": "product.template",
    "success": true
}
```

### Exapmle 6: Delete a record of product.template

**Request Type : DELETE**

Api : {{base\_url}}/api/{{model\_name}}/<int: record\_id>

**End Point :** `{{base_url}}/api/product.template/<int: record_id>`

## Header :

```
{"api_key": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
```

## OUTPUT:

```
response : {
  "responseCode": 2,
  "model_id": 145,
  "permissions": {
    "read": true,
    "create": true,
    "delete": true,
    "write": true
  }
}
```

```
    },
    "message": "Allowed all Models Permission: all",
    "object_name": "product.template",
    "success": true
}
```

## Exapmle 7: Trigger your odoo actions.

## Request Type : POST

**Api :** `{{base_url}}/api/{{model_name}}/execute_kw`

## Body :

```
{"method": "method_name", "args": "arguments", "kw": {}}
```

**End Point :** `{{base_url}}/api/res.partner/execute_kw`

## Header :

```
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
```

**Body :** {"method":"name\_get","args":[[2]],"kw":{}}

## OUTPUT:

```
{
    "model_id": 74,
    "success": true,
    "message": "Method Successfully Called",
    "result": [
        [
            2,
            "OdooBot"
        ]
    ],
    "responseCode": 2,
    "permissions": {
        "read": true,
        "write": true,
        "delete": true,
        "create": true
    },
    "object_name": "res.partner"
}
```