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# Querying endpoints



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## Resource Query Language

The *CloudBlue Connect* public API supports the RQL query language to search, sort and paginate objects.

A RQL query is a Javascript object that is defined according to the following typescript syntax:

```
interface IRQLFilter {
  $eq?: string|number,
  $ne?: string|number,
  $not?: IRQLFilter,
  $gt?: number,
  $ge?: number,
  $lt?: number,
  $le?: number,
  $like?: string,
  $ilike?: string,
  $empty?: boolean,
  $null?: boolean,
  $in?: Array<number|string>,
  $out?: Array<number|string>,
  $range?: {
    min: number,
    max: number,
  },
}

interface IQueryFilters {
  $or?: Array<IQueryFilters>;
  $ordering?: Array<string>;
  limit?: number;
  offset?: number;
  [key: string]?: string|number|Array<string|number>|boolean|IRQLFilter;
}
```

## Examples

### Simple filter

```
const filter = {
  name: 'eugene',
  age: 13,
};
```

### Filter with text matching

```
const filter = {
```

```
name: {
  $like: 'vasya*',
  $ilike: '***New',
},
};
```

### Filter with list

```
const filter = {
  age: {
    $out: [1, 2],
  },
  num: {
    $in: [3, 4, 5],
  },
};
```

### Filter with range

```
const filter = {
  age: {
    $range: {
      max: 5,
      min: 9,
    },
  },
};
```

### Filter with relational

```
const filter = {
  name: {
    $eq: 'vasya',
  },
  age: {
    $gt: 1,
    $lt: 8,
  },
  num: {
    $lte: 9,
    $gte: 4,
  },
};
```

### Filter with logical NOT

```
const filter = {
  name: {
```

```
$not: [{
  $eq: 'vasya',
}, {
  $eq: 'petya',
}],
},
age: {
  $not: {
    $eq: 10,
    $in: [1, 2, 3],
  },
},
};
```

### Filter with logical OR

```
const filter = {
  // You can use $or inside field
  color: {
    $or: [
      // Inside { } may be some conditions and for all them is used logical operator AND
      { $eq: 'red' },
      { $eq: 'blue' },
      { $eq: 'yellow' },
    ],
  },

  // Also you can use $or in root level, then inside must be objects array with fields name
  $or: [
    // Inside { } may be some fields with conditions and for all them is used logical operator AND
    { product: 'TV' },
    { product: 'Computer' },
  ],
};
```

### Combine AND and OR filter

```
const filter = {
  $and: [
    {$or: [
      {status: 'new'},
      {type: 'program'}
    ]},
    {$or: [
      {status: 'done'},
      {type: 'service'}
    ]},
  ],
};
```

```
]
};
```

### Filter with control operators

```
const controlFilter = {
  limit: 100,
  offset: 0,
  $ordering: '-created',
};
```

### Filter with empty values

// If values are empty, null, undefined then they will not be in the query.

```
const filter = {
  $ordering: [],
  name: '',
  age: null,
  $or: [{name: undefined}],
  type: 'pending',
};
```

### Combined

```
const combinationFilter = {
  offset: 0,
  limit: 10,
  $ordering: ['title', '-created'],
  $or: [
    {
      type: 'distribution',
      owner: { $eq: 'me' },
    },
    {
      type: { $in: ['sourcing', 'service'] },
      owner: { $not: { $eq: 'me' } },
    },
  ],
  name: {
    $or: [
      { $like: 'my test' },
      { $like: 'my' },
      { $ilike: '***CONTRACT' },
    ],
  },
};
```