https://cloudblue.com

Querying endpoints

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Auto-generated at November 26, 2026

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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 = {
```


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```
  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: {
```


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```
    $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'}
    ]},
```


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```
  ]
};
```

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' },
    ],
  },
};
```


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