



Example of using the REST API to search for CIs

<https://docs.bmc.com/xwiki/bin/view/Service-Management/IT-Service-Management/BMC-CMDB/ac2002/Developing/Using-BMC-CMDB-functions-in-an-external-application-with-the-REST-API/Learning-about-the-REST-API/Example-of-using-the-REST-API-to-search-for-CIs/>
08 May 2025

Table of Contents

[Do you want to learn more?](#) 7

Allen Allbrook, a CMDB configuration manager with Calbro Software Services wants to view all the printers in the production dataset.

He uses the following REST API:

```
/cmdb/v1.0/instances/{datasetId}/{namespace}/{className}
```

The following example represents a sample request and its response for Allen's requirement:

Sample Request

```
/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem?num_matches=true&qualification='ClassId' LIKE  
"BMC_PRINTER%25"&limit=10&offset=0&attributes=row_details_column,Name,ClassId,DataSetId,InstancId,ShortDescription,ClassId
```

! Important

Sometimes, the wildcard **%** in the query might not work as expected. In such cases, use the wildcard combination of **%25**.

For example, `/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem?num_matches=true&qualification='ClassId' LIKE "BMC_Printer%25"&limit=10&offset=0&attributes=Name,ClassId,DataSetId,InstancId,ShortDescription`

Sample Response

Response

```

{
  "instances": [
    {
      "instance_id": "OI-BE3EFE420DA211EDA5EC57F0933CC4F0",
      "class_name_key": {
        "name": "BMC_ComputerSystem",
        "namespace": "BMC.CORE"
      },
      "dataset_id": "BMC.ASSET",
      "attributes": {
        "InstanceId": "OI-BE3EFE420DA211EDA5EC57F0933CC4F0",
        "ClassId": "BMC_PRINTER",
        "Name": "Color Laser Jet b65b5a0c-e743-469b-9055-be36848c25a3",
        "DatasetId": "BMC.ASSET",
        "ShortDescription": "Wed Jul 27 14:57:50 IST 2022 performance testing "
      },
      "_links": {
        "self": [
          {
            "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE3EFE420DA211EDA5EC57F0933CC4F0"
          }
        ]
      }
    },
    {
      "instance_id": "OI-BE3CBECA0DA211EDA5DA57F0933CC4F0",
      "class_name_key": {
        "name": "BMC_ComputerSystem",
        "namespace": "BMC.CORE"
      },
      "dataset_id": "BMC.ASSET",
      "attributes": {
        "InstanceId": "OI-BE3CBECA0DA211EDA5DA57F0933CC4F0",
        "ClassId": "BMC_PRINTER",
        "Name": "Color Laser Jet 1a58e18c-b4b4-4709-a54a-7cbd9f5615e1",
        "DatasetId": "BMC.ASSET",
        "ShortDescription": "Wed Jul 27 15:07:24 IST 2022 performance testing "
      },
      "_links": {
        "self": [
          {
            "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE3CBECA0DA211EDA5DA57F0933CC4F0"
          }
        ]
      }
    },
    {
      "instance_id": "OI-BE4ECEA80DA211EDA63E57F0933CC4F0",
      "class_name_key": {
        "name": "BMC_ComputerSystem",
        "namespace": "BMC.CORE"
      },
      "dataset_id": "BMC.ASSET",
      "attributes": {
        "InstanceId": "OI-BE4ECEA80DA211EDA63E57F0933CC4F0",
        "ClassId": "BMC_PRINTER",
        "Name": "Color Laser Jet 3d70270c-980b-4275-a367-1d07617b951b",
        "DatasetId": "BMC.ASSET",
        "ShortDescription": "Wed Jul 27 14:59:36 IST 2022 performance testing "
      },
      "_links": {
        "self": [
          {
            "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE4ECEA80DA211EDA63E57F0933CC4F0"
          }
        ]
      }
    },
    {
      "instance_id": "OI-BE59C9AC0DA211EDA67057F0933CC4F0",
      "class_name_key": {
        "name": "BMC_ComputerSystem",
        "namespace": "BMC.CORE"
      },
      "dataset_id": "BMC.ASSET",
      "attributes": {
        "InstanceId": "OI-BE59C9AC0DA211EDA67057F0933CC4F0",

```

```

    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet 0021911a-2797-4562-86af-fe089cdcded4",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 14:59:54 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdv/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE59C9AC0DA211EDA67057F0933CC4F0"
      }
    ]
  }
},
{
  "instance_id": "OI-BE66D3FE0DA211EDA6A257F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE66D3FE0DA211EDA6A257F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet 81bae292-4093-48eb-aa31-2d272b5021a3",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 14:51:36 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdv/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE66D3FE0DA211EDA6A257F0933CC4F0"
      }
    ]
  }
},
{
  "instance_id": "OI-BE7BC7640DA211EDA6D457F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE7BC7640DA211EDA6D457F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet eeea2404-bb77-46d2-8857-86c15274c9f0",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 15:00:08 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdv/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE7BC7640DA211EDA6D457F0933CC4F0"
      }
    ]
  }
},
{
  "instance_id": "OI-BE9297D20DA211EDA70657F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE9297D20DA211EDA70657F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet ae508fa3-b00d-46c6-8ced-8acbedf57f82",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 14:54:50 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdv/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE9297D20DA211EDA70657F0933CC4F0"
      }
    ]
  }
},

```

```

{
  "instance_id": "OI-BE3CC6680DA211EDA5DB57F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE3CC6680DA211EDA5DB57F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet 5a405e85-1cc9-44e3-9290-0c4587759243",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 15:02:49 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE3CC6680DA211EDA5DB57F0933CC4F0"
      }
    ]
  }
},
{
  "instance_id": "OI-BE66DADE0DA211EDA6A357F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE66DADE0DA211EDA6A357F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet 697ae80f-3407-4523-9019-a6642370dd59",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 15:00:04 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE66DADE0DA211EDA6A357F0933CC4F0"
      }
    ]
  }
},
{
  "instance_id": "OI-BE59D12C0DA211EDA67157F0933CC4F0",
  "class_name_key": {
    "name": "BMC_ComputerSystem",
    "namespace": "BMC.CORE"
  },
  "dataset_id": "BMC.ASSET",
  "attributes": {
    "InstanceId": "OI-BE59D12C0DA211EDA67157F0933CC4F0",
    "ClassId": "BMC_PRINTER",
    "Name": "Color Laser Jet e4d1f9c6-318b-448d-ad45-4a483c224947",
    "DatasetId": "BMC.ASSET",
    "ShortDescription": "Wed Jul 27 15:10:11 IST 2022 performance testing "
  },
  "_links": {
    "self": [
      {
        "href": "http://clm-pun-vhl7f0.bmc.com:8008/api/cmdb/v1.0/instances/BMC.ASSET/BMC.CORE/BMC_ComputerSystem/OI-BE59D12C0DA211EDA67157F0933CC4F0"
      }
    ]
  }
},
],
"num_matches": 6454
}

```

Do you want to learn more?

Learn about more things you can do with the REST API in [Endpoints-in-the-REST-API](#).

