



链滴

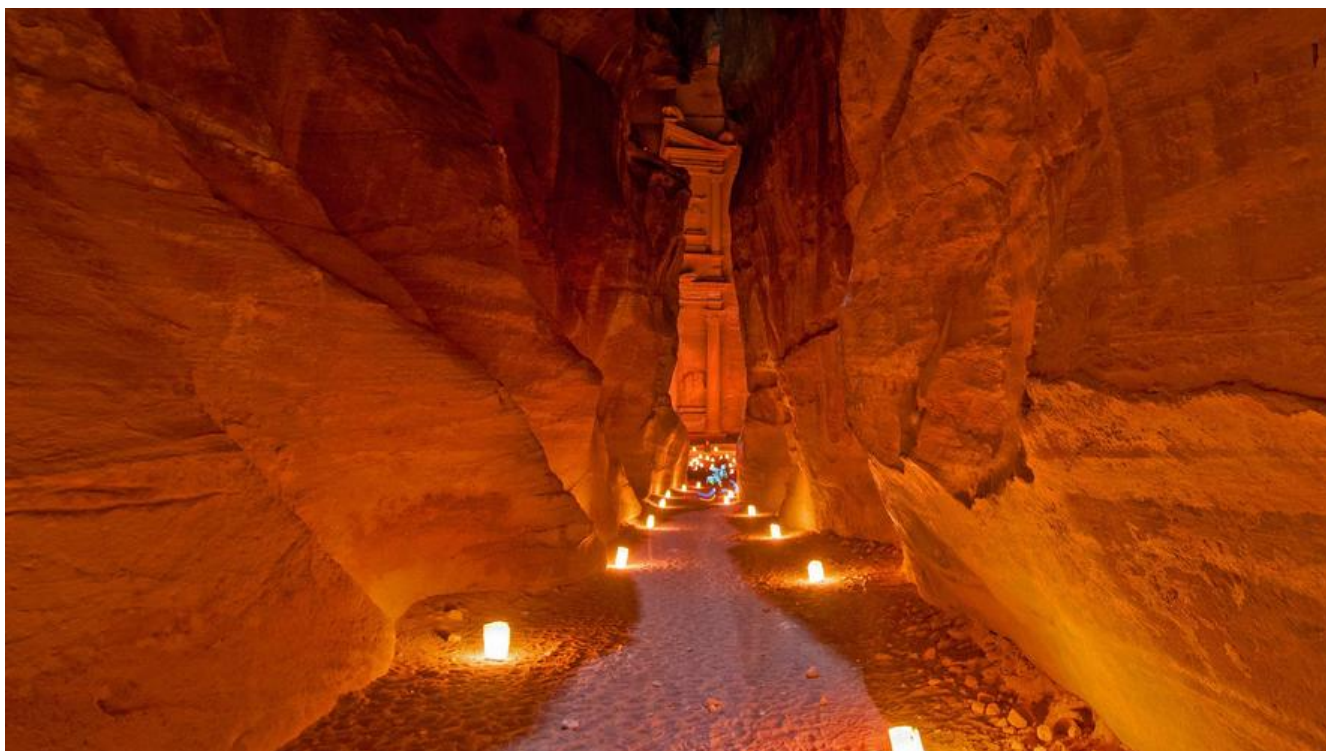
Solr 经纬度

作者: [adongs](#)

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安装Solr

使用docker安装Solr

`docker pull solr`

启动solr

`docker run --name solr -d -p 8983:8983 -t -v $USER_HOME/solr/data:/var/solr/data solr`

查看是否启动成功,在浏览器打开<http://localhost:8983/solr>

The screenshot displays the Solr Admin UI dashboard. On the left, there is a navigation menu with options: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, and a Core Selector dropdown. The main content area is divided into several sections:

- Instance:** Shows the instance name, start time (about 19 hours ago), and a list of versions (solr-spec 8.0.0, solr-impl 8.0.0, lucene-spec 8.0.0, lucene-impl 8.0.0).
- System:** Displays system metrics including Physical Memory (93.3%), Swap Space (0.0%), File Descriptor Count (0.0%), and JVM-Memory (13.9%).
- JVM:** Shows runtime information (Oracle Corporation OpenJDK 64-Bit Server VM 11.0.3 11.0.3+1-Debian-1bpc) and processors (2).
- Args:** Lists command-line arguments such as `-DSTOP.KEY=solrrocks`, `-DSTOP.PORT=7983`, `-Djetty.home=/opt/solr/server`, `-Djetty.port=8983`, `-Dlog4j.configurationFile=file:/var/solr/log4j2.xml`, `-Dsolr.data.home=`, `-Dsolr.default.confdir=/opt/solr/server/solr/configsets/_default/conf`, `-Dsolr.install.dir=/opt/solr`, `-Dsolr.jetty.https.port=8983`, and `-Dsolr.log.dir=/var/solr/logs`.

创建核心(相当于数据库的表)

创建一个核心(相当于数据库的表)

```
#docker exec -it --user=solr 镜像名称 bin/solr create_core -c 核心名称  
docker exec -it --user=solr solr bin/solr create_core -c mytest
```

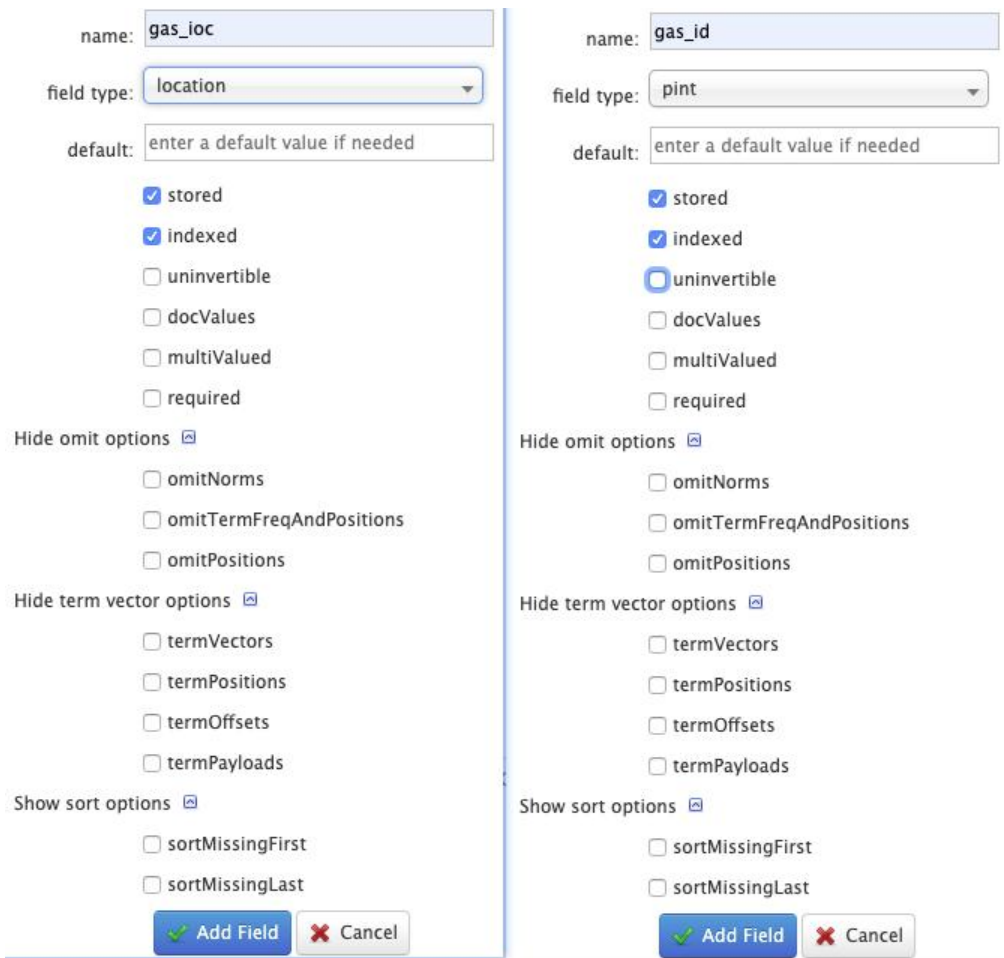
查看管理界面(会有我们创建的核心)

The screenshot shows the Solr Admin interface for the 'mytest' core. The left sidebar contains navigation links: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, mytest (selected), Overview, Analysis, Dataimport, Documents, Files, Ping, Plugins / Stats, Query, Replication, Schema, and Segments info. The main content area is divided into four panels: Statistics (Last Modified: about 18 hours ago, Num Docs: 6, Max Doc: 6, Heap Memory: -1, Usage: Deleted Docs: 0, Version: 18, Segment Count: 4, Current: ✓), Instance (CWD: /opt/solr-8.0.0/server, Instance: /var/solr/data/mytest, Data: /var/solr/data/mytest/data, Index: /var/solr/data/mytest/data/index, Impl: org.apache.solr.core.NRTCachingDirectoryFactory), Replication (Master) (a table with columns Version, Gen, Size), and Healthcheck (Ping request handler is not configured with a healthcheck file.). At the bottom, there are links for Documentation, Issue Tracker, IRC Channel, Community forum, and Solr Query Syntax.

选择创建字段

The screenshot shows the 'Add Field' dialog box in the Solr Admin interface. The dialog has three input fields: 'name' (with a red box around it and a red note '字段名称,添加重复的字段会报错'), 'field type' (with a red note '字段的类型'), and 'default' (with a red note '字段默认值'). Below these fields are several checkboxes for field options: 'stored' (checked, red note '存储'), 'indexed' (checked, red note '索引'), 'uninvertible' (checked), 'docValues' (unchecked), 'multiValued' (unchecked, red note '多值'), 'required' (unchecked), 'omitNorms' (checked), 'omitTermFreqAndPositions' (unchecked), 'omitPositions' (unchecked), 'termVectors' (unchecked), 'termPositions' (unchecked), 'termOffsets' (unchecked), 'termPayloads' (unchecked), 'sortMissingFirst' (unchecked), and 'sortMissingLast' (unchecked). At the bottom, there are 'Add Field' and 'Cancel' buttons. The left sidebar is the same as in the previous screenshot, with 'Schema' highlighted in red.

创建(经度和纬度),以及id字段



造数据

创建一个test.xml文件,内容如下,放到\$USER_HOME/solr/data文件夹中

```
<add>
  <doc>
    <field name="gas_id">1</field>
    <field name="gas_ioc">23.11,39.11</field>
  </doc>
  <doc>
    <field name="gas_id">2</field>
    <field name="gas_ioc">50.1,48.9</field>
  </doc>
  <doc>
    <field name="gas_id">3</field>
    <field name="gas_ioc">23.18,39.1</field>
  </doc>
</add>
```

将xml导入到solr中

#进入solr 容器中

```
docker exec -it --user=root solr /bin/bash
```

#复制文件到指定目录

```
cp /var/solr/data/test.xml example/exampledocs/
```

#执行导入 bin/post -c 核心名称 example/exampledocs/导入的数据文件名称

bin/post -c mytest example/exampledocs/test.xml

测试

The screenshot displays the Solr Admin interface for a query. The left sidebar contains navigation links: Dashboard, Logging, Core Admin, Java Properties, Thread Dump, mytest (selected), Overview, Analysis, Dataimport, Documents, Files, Ping (4ms), Plugins / Stats, Query, Replication, Schema, and Segments info.

The main configuration area shows the following fields:

- Request-Handler (qt): /select
- q: *
- fq: lgeodist
- sort: geodist() desc
- start, rows: 0, 10
- fl: *,dist:geodist()
- df: [empty]
- Raw Query Parameters: pt=20.44,30.22&sfield=gas_loc&d=wt
- wt: [dropdown menu]
- Options: indent off, debugQuery, dismax, edismax, hl, facet, spatial

Red annotations on the right side of the configuration area:

- 查询 (Query)
- 查询条件 (Query conditions)
- 过滤条件 (Filter conditions)
- 排序条件 (Sort conditions)
- 起始和结束参数 (Start and end parameters)
- 返回字段 (Return fields)
- 添加其他条件 (Add other conditions)

The JSON response is as follows:

```
{
  "responseHeader": {
    "status": 0,
    "QTime": 1,
    "params": {
      "q": "*",
      "d": "900+",
      "pt": "20.44,30.22",
      "fl": "*",
      "dist:geodist()",
      "fq": "lgeodist",
      "sort": "geodist() desc",
      "sfield": "gas_ioc",
      "start": "0",
      "end": "10",
      "rows": "10"
    }
  },
  "response": {
    "numFound": 6,
    "start": 0,
    "docs": [
      {
        "gas_id": [2],
        "gas_ioc": "50.1,48.9",
        "id": "90820519-fdc7-48c8-a344-a61e122be315",
        "_version_": 1634235710583078912,
        "dist": 3685.2703
      },
      {
        "gas_id": [3],
        "gas_ioc": "23.18,39.1",
        "id": "a0c228ac-b1cf-43cd-98b2-f17480d1df44",
        "_version_": 1634235710585176064,
        "dist": 965.7942
      },
      {
        "gas_id": [1],
        "gas_ioc": "23.11,39.11",
        "id": "41199291-fad1-4b53-95f6-2aca51ec916a",
        "_version_": 1634235128389566464,
        "dist": 964.5686
      },
      {
        "gas_id": [1],

```