# 镜像启动命令：

docker run -itd -p 8083:8083 image\_server:4.0.1 ./server

镜像内部默认8083端口，-v 需要添加数据目录映射

可选默认参数：

--port 8083

--thread 12

--statistic\_size 1024

--gdal\_cache\_size “1000”

--use\_etcd\_v2 或者 --use\_etcd\_v3 注：v3只能在linux下用

--etcd\_v2\_host “127.0.0.1”

--etcd\_v2\_port “2379”

--etcd\_v3\_address “http://127.0.0.1:4001” 注：如果有多个ip，用逗号隔开

使用etcd举例：

docker run -itd -p 8083:8083 –v /mnt:/mnt image\_server:4.0.1 ./server --use\_etcd\_v3 –etcd\_v3\_address “http://127.0.0.1:4001”

不使用etcd举例：

docker run -itd -p 8083:8083 –v /mnt:/mnt image\_server:4.0.1 ./server

# WMTS前端调用两种方式：

## 前端调用方式一：每次请求时指定请求的数据路径和style(可以省略)，有GET和POST两种方法。支持集群部署，不需要etcd。"info"字段为json数组，支持单张或多张影像。GET和POST内容是一致的，均为json格式。

### GET

http://localhost:8083/v1?request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}&info={info":[{"path":"d:/linux\_share/DEM-Gloable32.tif","style":{"stretch":{"kind":"histogramEqualize","percent":0.0}}},{"path":"d:/linux\_share/t/1.tiff","style":{"stretch":{"kind":"percentMinimumMaximum","percent":3.0}}}]}

style可以省略：

http://localhost:8083/v1?request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}&info={"info":[{"path":"d:/linux\_share/DEM-Gloable32.tif"},{"path": "d:/linux\_share/t/1.tiff"}]}

设置影像外部无效值，去黑边

http://10.1.33.45:8083/v1?cache=false&request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}&info={"info":[{"path":"/mnt/hgfs/Z/ai\_data/source\_data/20210314/123/北京市.img","style":{"stretch":{"externalNodataValue":0}}}]}

举例: mapbox前端代码：



### POST

http://localhost:8083/v1?request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}

postbody体内容：{"info":[{"path":"d:/1.tif","style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}},{"path":"d:/2.tif", "style" : {"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}}]}

## 前端调用方式二：通过接口注册。使用这种方式并且部署多个服务时，需要指定etcd启动；只启动一个服务，不用启动etcd。Windows下etcd需要使用—enable-v2方式启动（etcd默认是以v3方式启动），目前影像服务linux版支持etcd v3，windows版不支持etcd v3。user和group可以任意指定，根据业务需要来定。AddImages，GetImages，ClearImages 这三个接口只是简单的记录数据的分组，可以不调用这三个接口，可以直接调用UpdateDataStyle，产生一个uid，前端把这个uid写到url里，就不用每次都指定数据和style。

### AddImages

<http://localhost:8083/v1?request=AddImages>

方法：post

body:

{"user":"ln4", "group":"一月", "images":["1.tif", "2.tif", "3.tif", "d:/xxx.tif"]}

### GetImages

<http://localhost:8083/v1?request=GetImages>

方法：post

body:

{"user":"ln4", "group":"一月"}

### ClearImages

<http://localhost:8083/v1?request=ClearImages>

方法：post

body:

{"user":"ln4", "group":"一月"}

### UpdateDataStyle

<http://localhost:8083/v1?request=UpdateDataStyle>

方法：post

body:

{"info":[{"path":"d:/linux\_share/world.tif","style":{"stretch":{"kind":"standardDeviation","scale":0.5}}},{"path":"d:/linux\_share/t/1.tiff","style":{"stretch":{"kind":"percentMinimumMaximum","percent":3.0}}}]}

返回值：B09650397BE37501724001783F22E8C0

### mapbox前端地址

[http://localhost:8083/v1?request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}&key=B09650397BE37501724001783F22E8C0](http://localhost:8083/v1?request=GetTile&TILECOL=%7bx%7d&TILEROW=%7by%7d&TILEMATRIX=%7bz%7d&key=B09650397BE37501724001783F22E8C0)

# WMS调用接口：

将“request=GetTile&TILECOL={x}&TILEROW={y}&TILEMATRIX={z}”改为“service=wms&request=GetMap&BBOX=0.0,0.0,800.0,600.0&width=500&height=1000”。其中BBOX顺序为left,bottom,right,top。坐标默认为webmecator。其他参数与wmts类似

# 影像信息查询接口：

[http://localhost:8083/v1?request=](http://localhost:8083/v1?request=UpdateDataStyle)GetLayInfo

方法：post

body：

["c:/test/world.tif", "c:/test/abc.tif"]

返回值：

[{"left":0.0, "right":500.0, "top": 1000.0, "bottom": 0.0, "epsg":4326},{"left":0.0, "right":500.0, "top": 1000.0, "bottom": 0.0, "epsg":-1}]

# 备注：

get和post的json格式是一样的，如下例子1,2,3

例子1：

{"info":[{"path":"d:/1.tif","style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}},{"path":"d:/2.tif", "style" : {"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}}]}

例子2：

{"info":[{"path":"d:/1.tif","style":{"stretch":{"kind":"percentMinimumMaximum","percent":3.0}}},{"path":"d:/2.tif","style":{"stretch":{"kind":"percentMinimumMaximum","percent":3.0}}}]}

例子3：

{"info":[{"path":"d:/linux\_share/DEM-Gloable32.tif","style":{"stretch":{"kind":"standardDeviation","scale":0.5}}},{"path":"d:/linux\_share/t/1.tiff","style":{"stretch":{"kind":"percentMinimumMaximum","percent":3.0}}}]}

style字段可以省略，则使用默认显示方式

info的stretch支持下面四种拉伸方式

{"style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}}

{"style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind": "minimumMaximum", "minimum" : [0.0, 0.0, 0.0] , "maximum" : [255.0, 255.0, 255.0] }}}

{"style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind": "histogramEqualize", "percent" : 0.0}}}

{"style":{"kind":"trueColor", "bandMap" : [1, 2, 3] , "bandCount" : 3, "stretch" : {"kind": "standardDeviation", "scale" : 2.05}}}

可以省略一些字段，例如：

{"style":{"stretch" : {"kind":"percentMinimumMaximum", "percent" : 3.0}}}