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**东方证券DevOps-Boclink模块详细设计说明书**

文档变更记录

| 版本 | 日期 | 拟稿和修改 | 作者 | 说明 |
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| V0.1 | 2019.11.19 | 创建 | 丁正刚 | 创建 |

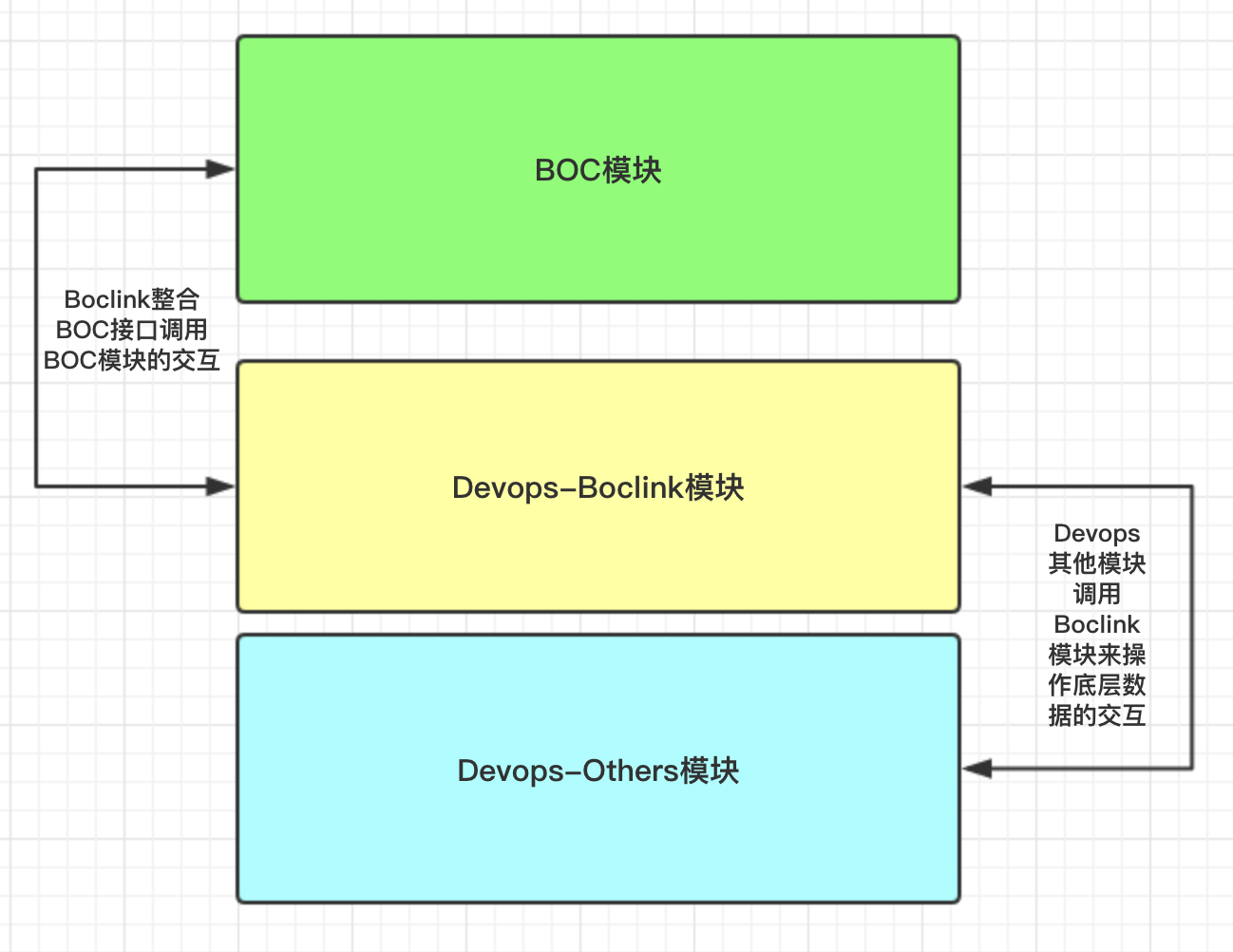
**DevOps-Message模块详细设计**

# **DevOps-message**模块总览

## 功能描述

DevOps-Boclink模块中工作为整合BOC接口和操作BOC接口，一些接口功能性不完整，Boclink完善这些接口并提供功能。

**本模块为中间件功能。**



## 功能概览

### 基本描述

Devops-Boclink模块功能上整合容器部署，部署配置，集群分区和租户相关接口，并提供完善BOC所有没有的功能，这些接口提供Devops平台其他模块调用。

### 表字段

无表字段，基于BOC接口。

## **接口功能**

### 集群环境类型（集群分区）

**该模块为Devops平台集群和环境类型的相关接口**

#### 查询当前Devops绑定的集群信息

查询当前Devops平台对应的集群信息，该信息配置在Boclink的Consul中。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 查询当前Devops绑定的集群信息 | | | | |
| 接口描述 | 查询当前Devops绑定的集群信息 | | | |
| 接口备注 | 什么都不传 | | | |
| URL | /cluster/getDevopsClusterInfo | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 创建环境类型

创建Devops平台环境类型（分区）。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 创建分区 | | | | |
| 接口描述 | 创建分区 | | | |
| 接口备注 | 传 分区名称 分区备注 | | | |
| URL | /cluster/createPartition | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| partitionEntity | body | PartitionEntity | Y | partitionEntity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"host":[{"clusterId":"格式为(int32)","clusterName":"","dockerVersion":"","envId":"格式为(int32)","hostBoot":"格式为(date-time)","hostCpu":"格式为(int32)","hostCreatetime":"格式为(date-time)","hostDesc":"","hostGpu":"格式为(int32)","hostId":"格式为(int32)","hostIp":"","hostKernelVersion":"","hostMem":"格式为(int32)","hostMonitorStatus":"格式为(byte)","hostMonitors":"","hostName":"","hostOs":"","hostPartitionEnvId":"格式为(int32)","hostPod":"格式为(int32)","hostPwd":"","hostRealName":"","hostStatus":"格式为(byte)","hostType":"格式为(byte)","hostUser":"","hostUuid":"","installStatus":"格式为(int32)","kubeType":"","kubeVersion":"","network":"","networkType":"","nginxVersion":"","partitionId":"格式为(int32)","partitionName":"","registryId":"格式为(int32)","registryVersion":"","schedulingStatus":"格式为(byte)","userId":"格式为(int32)"}],"partitionClusterId":"分区的集群id格式为(int32)","partitionClusterName":"分区的集群名称","partitionDescribe":"分区备注","partitionId":"分区id格式为(int32)","partitionName":"分区名称","partitionShare":"分区类型，默认Devops为1共享分区格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 修改环境类型

修改Devops平台环境类型（分区）。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 修改分区 | | | | |
| 接口描述 | 修改分区 | | | |
| 接口备注 | 传分区id 和 分区备注 | | | |
| URL | /cluster/updatePartition | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| partitionEntity | body | PartitionEntity | Y | partitionEntity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"host":[{"clusterId":"格式为(int32)","clusterName":"","dockerVersion":"","envId":"格式为(int32)","hostBoot":"格式为(date-time)","hostCpu":"格式为(int32)","hostCreatetime":"格式为(date-time)","hostDesc":"","hostGpu":"格式为(int32)","hostId":"格式为(int32)","hostIp":"","hostKernelVersion":"","hostMem":"格式为(int32)","hostMonitorStatus":"格式为(byte)","hostMonitors":"","hostName":"","hostOs":"","hostPartitionEnvId":"格式为(int32)","hostPod":"格式为(int32)","hostPwd":"","hostRealName":"","hostStatus":"格式为(byte)","hostType":"格式为(byte)","hostUser":"","hostUuid":"","installStatus":"格式为(int32)","kubeType":"","kubeVersion":"","network":"","networkType":"","nginxVersion":"","partitionId":"格式为(int32)","partitionName":"","registryId":"格式为(int32)","registryVersion":"","schedulingStatus":"格式为(byte)","userId":"格式为(int32)"}],"partitionClusterId":"分区的集群id格式为(int32)","partitionClusterName":"分区的集群名称","partitionDescribe":"分区备注","partitionId":"分区id格式为(int32)","partitionName":"分区名称","partitionShare":"分区类型，默认Devops为1共享分区格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 删除环境类型

删除Devops平台环境类型（分区）。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 删除分区 | | | | |
| 接口描述 | 删除分区 | | | |
| 接口备注 | 传 分区id | | | |
| URL | /cluster/deletePartition | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| partitionEntity | body | PartitionEntity | Y | partitionEntity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"host":[{"clusterId":"格式为(int32)","clusterName":"","dockerVersion":"","envId":"格式为(int32)","hostBoot":"格式为(date-time)","hostCpu":"格式为(int32)","hostCreatetime":"格式为(date-time)","hostDesc":"","hostGpu":"格式为(int32)","hostId":"格式为(int32)","hostIp":"","hostKernelVersion":"","hostMem":"格式为(int32)","hostMonitorStatus":"格式为(byte)","hostMonitors":"","hostName":"","hostOs":"","hostPartitionEnvId":"格式为(int32)","hostPod":"格式为(int32)","hostPwd":"","hostRealName":"","hostStatus":"格式为(byte)","hostType":"格式为(byte)","hostUser":"","hostUuid":"","installStatus":"格式为(int32)","kubeType":"","kubeVersion":"","network":"","networkType":"","nginxVersion":"","partitionId":"格式为(int32)","partitionName":"","registryId":"格式为(int32)","registryVersion":"","schedulingStatus":"格式为(byte)","userId":"格式为(int32)"}],"partitionClusterId":"分区的集群id格式为(int32)","partitionClusterName":"分区的集群名称","partitionDescribe":"分区备注","partitionId":"分区id格式为(int32)","partitionName":"分区名称","partitionShare":"分区类型，默认Devops为1共享分区格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

### 容器部署

**该模块为容器部署配置和容器部署相关接口。**

#### 创建容器部署的配置文件

创建容器部署配置文件，先将配置文件保存好，远程接口调用只需要一个Id标识即可。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 创建容器部署的配置文件 | | | | |
| 接口描述 | 创建容器部署的配置文件 | | | |
| 接口备注 | 需要传配置信息 | | | |
| URL | /dockerApp/createAppConf | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | AppPipelineDeploy | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"appConf":"部署容器应用整合的配置","appId":"应用环境Id格式为(int32)","buildNumber":"部署构建次数格式为(int32)","createTime":"创建记录时间格式为(date-time)","id":"pipe容器部署记录id格式为(int32)","imageName":"部署镜像名称","namespace":"部署的服务所在的环境(即BOC的应用namespace)","updateTime":"更新记录时间格式为(date-time)","version":"部署镜像服务版本"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 修改容器部署的配置文件

修改容器部署配置文件，先将配置文件保存好，调用只需要一个Id标识即可。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 更新容器部署的配置文件 | | | | |
| 接口描述 | 更新容器部署的配置文件 | | | |
| 接口备注 | 需要传配置信息和配置Id | | | |
| URL | /dockerApp/updateAppConf | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | AppPipelineDeploy | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"appConf":"部署容器应用整合的配置","appId":"应用环境Id格式为(int32)","buildNumber":"部署构建次数格式为(int32)","createTime":"创建记录时间格式为(date-time)","id":"pipe容器部署记录id格式为(int32)","imageName":"部署镜像名称","namespace":"部署的服务所在的环境(即BOC的应用namespace)","updateTime":"更新记录时间格式为(date-time)","version":"部署镜像服务版本"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 获取容器部署配置文件

根据给定的配置文件Id即可获取配置文件

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 获取容器部署的配置文件 | | | | |
| 接口描述 | 获取容器部署的配置文件 | | | |
| 接口备注 | 需要传配置Id | | | |
| URL | /dockerApp/getAppConf | | | |
| 请求方式 | get | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| id | integer | query | Y | id |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"id":0} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 获取调用部署应用的请求地址

远程部署地址为配置在Boclink模块的Consul配置文件中。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 获取调用部署应用的请求地址 | | | | |
| 接口描述 | 获取调用部署应用的请求地址 | | | |
| 接口备注 | 直接查询 | | | |
| URL | /dockerApp/getDeployDockerAppUrl | | | |
| 请求方式 | get | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### **部署容器**

根据镜像和配置信息远程发布容器部署的接口。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 部署应用 | | | | |
| 接口描述 | 部署容器 | | | |
| 接口备注 | 需要传镜像和配置相关参数 | | | |
| URL | /dockerApp/deployDockerApp | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | DeploymentModel | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"appConf":"部署的服务启动配置JSON信息","appConfId":"配置Id格式为(int32)","appId":"应用环境Id格式为(int32)","buildNumber":"部署的服务镜像构建次数格式为(int32)","imageName":"部署的服务镜像名称","namespace":"部署的服务所在的环境(即BOC的应用namespace)","version":"部署的服务版本名称"} | | | |
| 返回值 |  | | | |

### 环境接口（应用）

**Devops平台应用服务都发布在对应的环境上，环境对应的为Boc的应用。**

#### 创建环境

创建Devops平台的环境。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 创建应用 | | | | |
| 接口描述 | 创建应用 | | | |
| 接口备注 | 需要设置应用的限额 | | | |
| URL | /dockerApp/createDockerApp | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | ApplicationHandleEntity | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"clusterId":"集群Id格式为(int32)","cpu":"创建时选择的CPU量格式为(int32)","defaultCpu":"默认实例CPU量","defaultMem":"默认实例MEM量","envId":"租户ID格式为(int32)","envName":"租户名称","masterIp":"集群IP","masterPort":"集群端口","masterType":"集群http类型","memory":"创建时选择的MEM量格式为(int32)","moveToDefault":"","partitionId":"选择的分区id格式为(int32)","partitionName":"选择的分区名称","platformType":"集群平台类型","pods":"创建时选择的实例Pod量格式为(int32)","projectDesc":"应用备注","projectId":"应用ID格式为(int32)","projectName":"应用名称","projectType":"应用类型","requestStorage":"创建时选择的需求存储量格式为(int32)","resourceCPU":"修改时选择的CPU量格式为(int32)","resourceHd":"修改时选择的存储量格式为(int32)","resourceInstance":"修改时选择的实例量格式为(int32)","resourceMemory":"修改时选择的MEM量格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 修改环境

修改Devops平台的环境。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 修改应用 | | | | |
| 接口描述 | 修改应用 | | | |
| 接口备注 | 需要设置应用的限额 | | | |
| URL | /dockerApp/updateDockerApp | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | ApplicationHandleEntity | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"clusterId":"集群Id格式为(int32)","cpu":"创建时选择的CPU量格式为(int32)","defaultCpu":"默认实例CPU量","defaultMem":"默认实例MEM量","envId":"租户ID格式为(int32)","envName":"租户名称","masterIp":"集群IP","masterPort":"集群端口","masterType":"集群http类型","memory":"创建时选择的MEM量格式为(int32)","moveToDefault":"","partitionId":"选择的分区id格式为(int32)","partitionName":"选择的分区名称","platformType":"集群平台类型","pods":"创建时选择的实例Pod量格式为(int32)","projectDesc":"应用备注","projectId":"应用ID格式为(int32)","projectName":"应用名称","projectType":"应用类型","requestStorage":"创建时选择的需求存储量格式为(int32)","resourceCPU":"修改时选择的CPU量格式为(int32)","resourceHd":"修改时选择的存储量格式为(int32)","resourceInstance":"修改时选择的实例量格式为(int32)","resourceMemory":"修改时选择的MEM量格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

#### 删除环境

删除Devops平台的环境内容。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 删除应用 | | | | |
| 接口描述 | 删除应用 | | | |
| 接口备注 | 需要应用的ID和名称 | | | |
| URL | /dockerApp/deleteDockerApp | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| entity | body | ApplicationHandleEntity | Y | entity |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"clusterId":"集群Id格式为(int32)","cpu":"创建时选择的CPU量格式为(int32)","defaultCpu":"默认实例CPU量","defaultMem":"默认实例MEM量","envId":"租户ID格式为(int32)","envName":"租户名称","masterIp":"集群IP","masterPort":"集群端口","masterType":"集群http类型","memory":"创建时选择的MEM量格式为(int32)","moveToDefault":"","partitionId":"选择的分区id格式为(int32)","partitionName":"选择的分区名称","platformType":"集群平台类型","pods":"创建时选择的实例Pod量格式为(int32)","projectDesc":"应用备注","projectId":"应用ID格式为(int32)","projectName":"应用名称","projectType":"应用类型","requestStorage":"创建时选择的需求存储量格式为(int32)","resourceCPU":"修改时选择的CPU量格式为(int32)","resourceHd":"修改时选择的存储量格式为(int32)","resourceInstance":"修改时选择的实例量格式为(int32)","resourceMemory":"修改时选择的MEM量格式为(int32)","userId":"用户Id格式为(int32)"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |

### 应用接口（租户）

**Devops平台的应用对应的是Boc的租户，Devops同步Jira应用时同步在Boc创建租户。**

#### **创建应用并绑定应用管理员（创建租户并绑定租户管理员）**

**Devops平台创建应用需要创建租户，并选择租户管理员，将选定的租户人员绑定为管理员。**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 创建租户并绑定租户管理员 | | | | |
| 接口描述 | 创建租户并绑定租户管理员 | | | |
| 接口备注 | 传 租户名称 租户备注 绑定的用户 | | | |
| URL | /env/createEnvAndAdmin | | | |
| 请求方式 | post | | | |
| 请求类型 | application/json | | | |
| 返回类型 | \*/\* | | | |
| 参数名 | 数据类型 | 参数类型 | 是否必填 | 说明 |
| devopsEnvAdminEntit | body | DevopsEnvAdminEntity | Y | devopsEnvAdminEntit |
| 状态码 | 描述 | 说明 | | |
| 200 | OK | OK | | |
| 201 | Created | Created | | |
| 401 | Unauthorized | Unauthorized | | |
| 403 | Forbidden | Forbidden | | |
| 404 | Not Found | Not Found | | |
| 示例 | | | | |
| 请求参数 | {"envAdminUsersId":"租户管理员用户Id,多个用,隔开","envDesc":"租户备注","envId":"租户Id格式为(int32)","envName":"租户名称"} | | | |
| 返回值 | {"code":"格式为(int32)","data":"","message":"","success":"","timestamp":"格式为(int64)"} | | | |