

前后端交互开发

提交任务

用户通过WEB（HTTP）提交新的任务，任务json信息有：

- 1、任务脚本script，base64编码
 - 2、超时时间timeout
 - 3、并行度parallel
 - 4、失败率fail_rate
 - 5、失败次数fail_count
 - 6、targets 是跑任务的Agent的agent_id列表，可以让用户看到一个列表，勾选。
- 1-5都是文本框填写信息即可。
6即targets列表需要从Master端获取。

targets 列表

master/storage.py

```
class Storage:
    def get_agents(self): # 返回所有agent_id
        return list(self.agents.keys())
```

master/cm.py

```
class ConnectionManager:
    def get_agents(self): # 返回所有已经注册的agent_id
        return self.store.get_agents()
```

项目根目录下构建一个appwebserver.py

```
from aiohttp import web, log
import zerorpc

client = zerorpc.Client()
client.connect('tcp://127.0.0.1:9000')

async def targetshandler(request: web.Request):
    txt = client.get_agents()
```

```
return web.json_response(txt)
```

```
app = web.Application()
```

```
app.router.add_get('/task/targets', targetshandler)
```

```
web.run_app(app, host='0.0.0.0', port=9900)
```

提交任务

客户端json如下

```
{
  "script": "echo 'hello'",
  "timeout": 30,
  "targets": []
}
```

appwebserver.py 增加路由和handler

```
async def taskhandler(request:web.Request):
```

```
    j = await request.json()
```

```
    txt = client.add_task(j) # j为字典
```

```
    return web.Response(text=txt, status=201)
```

```
app.router.add_post('/task', taskhandler)
```

master/cm.py

```
class ConnectionManager:
```

```
    def add_task(self, task): # 添加任务的接口
```

```
        task['task_id'] = uuid.uuid4().hex # 增加任务id
```

```
        return self.store.add_task(task) # 成功则返回task_id
```

联调，最终修正一些bug，得到结果

post_task

POST http://127.0.0.1:9900/task

Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 {
2   "script": "echo 'hello'",
3   "timeout": 30,
4   "targets": ["f8ef3e461f9e4498a7332cd69a468ad7"]
5 }
```

Body Cookies Headers (4) Test Results

Pretty Raw Preview Text

1 00ee43b76a7344698cc73ebed57dbe8d

MINGW64:/o

```
2018-02-07 03:14:08,453 [agent.cm _get_task] {'id': 'c7d15dfbf8b8452c8a267530a1d
2eda4', 'timeout': 30, 'script': "echo 'hello'"}
2018-02-07 03:14:08,453 [agent.executor run] Agent start exeC~
~
2018-02-07 03:14:08,569 [agent.executor run] 0
2018-02-07 03:14:08,570 [agent.executor run] b"'hello'\r\n"
2018-02-07 03:14:34,745 [agent.cm _get_task] {'id': '00ee43b76a7344698cc73ebed57
dbe8d', 'timeout': 30, 'script': "echo 'hello'"}
2018-02-07 03:14:34,745 [agent.executor run] Agent start exeC~
~
2018-02-07 03:14:34,774 [agent.executor run] 0
2018-02-07 03:14:34,774 [agent.executor run] b"'hello'\r\n"
```

