IPU_WEB_SERVER新增功能与权限梳理

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权限

用户信息

功能	ADMIN	CIDI
登录	1	1
注册	1	1
删除	1	0
修改密码	1	0

录像与日志拷贝

功能	ADMIN	CIDI
录像查询	1	1
录像拷贝usrdisk	./bag/ ./camera/full ./camera/key	./camera/full ./camera/key
录像拷贝Internaldisk	./bag/ ./camera/full ./camera/key	0
日志拷贝usrdisk	/ips/ /lte/	/ips/ /lte/
日志拷贝Internaldisk	/ips/ /lte/	0

用户管理

Handle

- 识别客户端类型: ADMIN CIDI
- 获取会话令牌: session_token
- 验证会话令牌:
 - 如果令牌无效,检查是否注册,如果未注册且不是注册指令,返回提示注册
 - 。 如果用户未注册是注册指令,调用Register进行注册
 - 。 如果用户已注册是登录指令,调用Login进行登录
- 根据客户端类型调用相应的PickHandle函数处理指令。(此处都是同一个PickHandle函数,如果后续进行权限控制,可以从这修改)

```
//处理命令
if(CLIENT_UNKNOWN == type) {
    AINFO << "Handling as CLIENT_UNKNOWN.";
    code = PickHandle(cmd, map, out_msg);
} else if(CLIENT_ADMIN == type) {
    AINFO << "Handling as CLIENT_ADMIN.";
    //TODO
    code = PickHandle(cmd, map, out_msg);
} else if(CLIENT_CIDI == type) {
    AINFO << "Handling as CLIENT_CIDI.";
    //TODO
    code = PickHandle(cmd, map, out_msg);
}
```

IdentifyClient

• 内置admin 为 CLIENT_ADMIN,新注册的用户默认设置为 CLIENT_CIDI

Login

```
curl -d '{ "cmd_type": "login", "username": "cidi", "password":
   "c4ca4238a0b923820dcc509a6f75849b"}' http://172.16.133.63:8081/apiserver/cmd

{"data_map":
   {"role":"CLIENT_CIDI", "session_token": "7038u795szC9R2IWF9dCC7487V5jDy4S", "stream_url": "ws://svm.pingtai.cidiserver.com:41001"}, "result_code": 0, "result_msg": "Login successful."}
```

Register

```
curl -d '{ "cmd_type": "register", "username": "new_uesr", "password":
  "7096574cebeb85403bd77a8f6cbe151f", "email": "test@qq.com"}'
http://172.16.133.63:8081/apiserver/cmd

{"data_map": "{}", "result_code": 0, "result_msg": "Registration successful."}
```

ResetPassword

```
curl -d '{ "cmd_type": "reset_password", "username": "new_user", "password":
"7096574cebeb85403bd77a8f6cbe151f", "new_password": "21f3d99c69e2f2fe16d29a04846bc1ed
", "email": "test@qq.com", "session_token": ""}' http://172.16.133.63:8081/apiserver/cmd

{"data_map": "{}", "result_code": 0, "result_msg": "Password has been reset successfully."}
```

DeleteUser

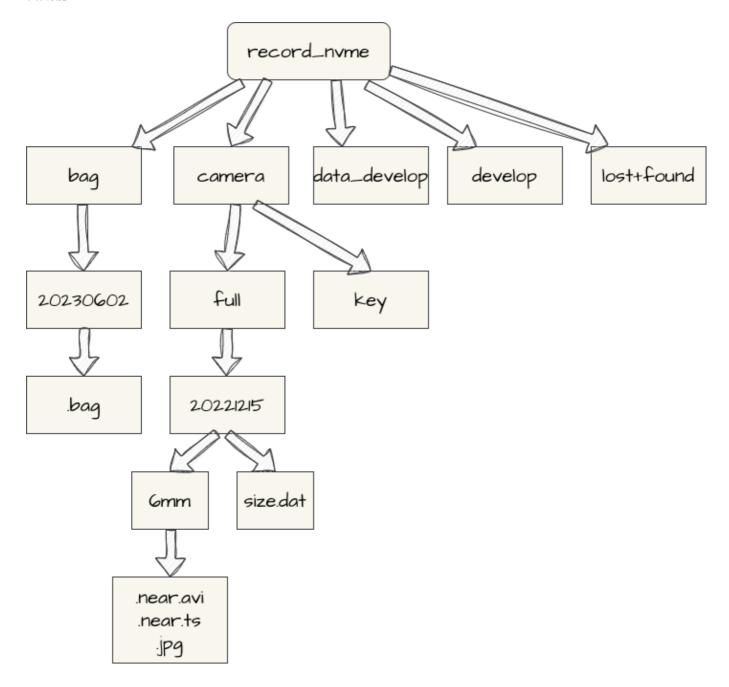
```
curl -d '{ "cmd_type": "delete", "username": "cidi", "password":
"c4ca4238a0b923820dcc509a6f75849b","delete_username":"new_user"}'
http://172.16.133.63:8081/apiserver/cmd
```

Logout

• 在已登录的基础上删除会话

```
curl -d '{ "cmd_type": "logout", "session_token":""}' http://172.16.133.63:8081/apiserver/cmd
{"data_map":"{}","result_code":0,"result_msg":"Logout successful"}
```

录像日志文件显示



GetRecordDateList 和 GetLogDateList

- 列出有录像或日志文件的日期的列表
- 录像: /bag//camera/full//camera/key/
- 日志: /ips/ /lte/

```
函数一: 0/1表示flag

RecordLog(type, root_path, size, free_size, vec, 0);
if (CLIENT_ADMIN == client_type) {
    RecordLog(type, root_path, size, free_size, vec, 1);
}

函数二: 0/1表示yy
if(flag == 1) {
    GetCopyDateList(root_path + "/bag/", 0, vec);
}
GetCopyDateList(root_path + "/camera/full/", 0, vec);
```

```
GetCopyDateList(root_path + "/camera/key/", 1, vec);
函数三:
if (1 == yy) item.type = "alarm";
else item.type = "time";
```

显示时间范围内的录像文件

• ShowRecordDateList:显示某一天的全部录像文件(.avi.jpg)

```
curl -d '{ "cmd_type": "show_record_date_list",
   "date":"20230901"}' http://172.16.133.63:8081/apiserver/cmd

{"data_map":{"file_count":4,"file_list":
   [{"file":"20230901103724228.res.avi","folder":"20230901//.res"},
   {"file":"20230901103724569.near.avi","folder":"20230901//6mm"},
   {"file":"20230901103730021.jpg","folder":"20230901//6mm"},
   {"file":"20230901103800014.jpg","folder":"20230901//6mm"}],"result_code":0,"result_ms
   g":"Query success"}
```

- ShowRecordDateListWithoutJPG: 显示某一天的全部录像文件(.avi)
- ShowRecordDateListWithTimeFilter: 显示某一天一个时间段的全部录像文件(.avi .jpg)

```
curl -d '{ "cmd_type":
    "show_record_date_list_range", "date": "20221215190000|20221215190200"}'
http://172.16.133.63:8081/apiserver/cmd

{"data_map":{"file_count":6, "file_list":
    [{"file": "20221215190029716.near.avi", "folder": "20221215//6mm"},
    {"file": "20221215190129708.near.avi", "folder": "20221215//6mm"},
    {"file": "20221215190000031.jpg", "folder": "20221215//6mm"},
    {"file": "20221215190030028.jpg", "folder": "20221215//6mm"},
    {"file": "20221215190130024.jpg", "folder": "20221215//6mm"},
    {"file": "20221215190130024.jpg", "folder": "20221215//6mm"}]}, "result_code": 0, "result_ms
    g": "Query success"}
```

- ShowRecordDateListWithoutJPGWithTimeFilter: 显示某一天一个时间段的全部录像文件(.avi)
- ShowLogDateList:显示某一天的录像文件

```
curl -d '{ "cmd_type": "get_log_date_list"}' http://172.16.133.63:8081/apiserver/cmd

{"data_map":[{"name":"20240715","type":"time"},{"name":"20240716","type":"time"},
{"name":"20240717","type":"time"},{"name":"20240718","type":"time"},
{"name":"20240719","type":"time"},{"name":"20240720","type":"time"},
{"name":"20240721","type":"time"},{"name":"20240722","type":"time"},
```

```
{"name":"20240723","type":"time"},{"name":"20240724","type":"time"},
{"name":"20240725","type":"time"},{"name":"20240726","type":"time"},
{"name":"20240727","type":"time"},{"name":"20240728","type":"time"},
{"name":"20240729","type":"time"},{"name":"20240730","type":"time"},
{"name":"20240731","type":"time"},{"name":"20240801","type":"time"},
{"name":"20240802","type":"time"},{"name":"20240803","type":"time"},
{"name":"20240804","type":"time"},{"name":"20240805","type":"time"},
{"name":"20240806","type":"time"},{"name":"20240807","type":"time"},
{"name":"mcu_log","type":"time"}],"result_code":0,"result_msg":"successful"}
```

对应指令

- HANDLE_CMD("get_record_date_list", GetRecordDateList);
- HANDLE_CMD("get_log_date_list", GetLogDateList);
- HANDLE_CMD("show_record_date_list", ShowRecordDateList);
- HANDLE_CMD("show_record_date_list_noJPG", ShowRecordDateListWithoutJPG);
- HANDLE_CMD("show_record_date_list_range", ShowRecordDateListWithTimeFilter);
 HANDLE_CMD("show_record_date_list_range_noJPG"
 ,ShowRecordDateListWithoutJPGWithTimeFilter);
- HANDLE_CMD("show_log_date_list", ShowLogDateList);

录像日志文件拷贝

- RecordDateCopy
 - 。 拷贝逻辑
 - 将单线程拷贝修改为多线程按批次拷贝,每个线程拷贝数量由batchsize设置
 - 。 拷贝权限
 - 修改admin身份和cidi的拷贝权限。且默认只拷贝/6mm/ 和隐藏目录/.res/ 中.avi 和 .mp4 结尾的数据
- LogDateCopy
- QueryCopyProgress 和 QueryLogCopyProgress

对应指令

- HANDLE_CMD("record_range_copy", RecordDateCopy);
- HANDLE_CMD("log_date_copy", LogDateCopy);
- HANDLE_CMD("get_copy_progress", QueryCopyProgress);
- HANDLE_CMD("get_log_copy_progress", QueryLogCopyProgress);

查询拷贝状态

- 已拷贝文件数/总拷贝文件数 来描述进度
- 设置不同的interval值,优化查询时间
- 用完成进度所消耗的时间粗略估计需要拷贝完成的总时间
 - 。 初始是100ms
 - 。 大于10s 500ms
 - 。 大于30s 1000ms
 - 。 大于60s 2000ms

```
cidi@cidi:~/vscodeWorkspace/ipu_wbserver/ipu_web_server_arm$ curl -d
'{"cmd_type":"get_copy_progress","username":"admin","password":"c4ca4238a0b92382
0dcc509a6f75849b"}' http://172.16.133.63:8081/apiserver/cmd

{"data_map":
{
    "copied_files":25,
    "estimated_remaining_time":16,
    "interval":500,
    "percent":62,
    "seconds":27,
    "total_files":40
}
,"result_code":0,"result_msg":"正在拷贝"}
```

查询状态

权限没有区别

- 设备状态
- 传感器信息

- 内部接口信息
- 外部接口信息
- 本机版本信息

标定

权限没有区别

更新

权限没有区别

导入

权限没有区别

- 模型导入
- 地图导入
- 参数导入

总结

已解决

- 用户信息登录注册退出等功能实现;
- 重构了录像和日志拷贝代码,拷贝的逻辑,实习的细节,内存空间的查询。在同样的拷贝任务中,(以 20221215这天录像为例),拷贝时间提升了1/4;

遗留问题

admin用户拷贝录像时,有些bag包里面的数据非常大,同时还需要拷贝internaldisk和usrdisk两份,容易出现负载过大导致服务器错误;

```
8816 R 100.0
                                 11644
                                                        0.0
                                                               0:50.96 vulkaninfo
27270 nvidia
                20
                     0
                          33800
                                                              3548:47 ips
9891 root
                20
                    0 36.053g 790476
                                        54308 S
                                                  22.8
                                                        2.4
10623 root
                20
                    0 2807264 426548
                                         4144 S
                                                   1.0
                                                        1.3
                                                              83:09.53 web_server
                                         2936 R
                    0
                          11012
27852 nvidia
                20
                                  3768
                                                   1.0
                                                       0.0
                                                              0:00.19 top
2542 root
                19
                         205296 145556
                                       134360 S
                                                   0.3
                                                        0.4 105:16.74 systemd-journal
5044 root
                20
                     0
                           8364
                                  2140
                                          1996
                                                   0.3
                                                        0.0
                                                               3:20.24 sync_auto.sh
                           8364
                                  2188
                                          2044 S
                                                        0.0
                                                               1:24.80 miivii_5G.sh
5086 root
                20
                     0
                                                   0.3
```

- load average: 平均负载值非常高,系统在处理大量任务。一般情况下,负载平均值超过系统CPU 核心数时可能处于过载状态。
- CPU: CPU大部分时间空闲,82.5% idle,可能是很多I/O操作或等待中的进程导致高负载,而不是CPU密集型任务。
- U盘离线升级完成后web页面显示接口超时

1. 提示接口请求超时 上一版本: V1.2.9.20231215_g 当前版本: V1.2.9.20231215_g 下一版本: V9.9.9.20240409_g