

在包头中心医院项目遇到评级需要把CDR的患者360视图以菜单形式集成到护理系统中，由于CDR系统是http的，需要在Nginx中做一下反向代理成https，同时由于需要以iframe方式嵌入，涉及到一些跨域和代码修改的问题需要处理，一下做一下记录，在其他项目应用时，需要根据医院环境做相应的调整。

在nginx的字符串中转移字符是以\开头的，但\$无法使用\来转义，始终会被解释为变量插值，因此需要一个不能使用变量的指令中输出\$，以下通过在nginx.conf的http节中加入geo指令来实现，后续通过\${dollar}变量来输出原始\$。

```
geo $dollar {
    default "$";
}
```

确保CNIS的nginx配置了允许跨域访问，参考cnis.conf

```
upstream web {
    #server 192.168.8.42:8081;
    server 192.168.8.43:8081;
    server 192.168.8.44:8081;
}

server{
    listen 8081 ssl;
    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    access_log /var/log/nginx/cnis-web.access.log main;

    location / {
        proxy_pass https://web;
        proxy_set_header Host $http_host;
        proxy_set_header X-Real_IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        proxy_hide_header X-Frame-Options;
        add_header X-Frame-Options '*' always;
        add_header Content-Security-Policy 'frame-ancestors *';

        add_header Access-Control-Allow-Methods *;
        add_header Access-Control-Max-Age 3600;
        add_header Access-Control-Allow-Credentials true;
        add_header Access-Control-Allow-Origin *;
        add_header Access-Control-Allow-Headers $http_access_control_request_headers;

        if ($request_method = OPTIONS){
            return 200;
        }
    }
}

upstream sso {
    #server 192.168.8.42:6065;
    server 192.168.8.43:6065;
```

```

server 192.168.8.44:6065;
}

server {
    listen 6065 ssl;
    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    access_log /var/log/nginx/cnis-sso.access.log main;

    location / {
        proxy_pass https://sso;
        proxy_set_header Host $http_host;
        proxy_set_header X-Real_IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    }
}

```

cdr的反向代理配置 cdr.conf，要处理主要四个方面，一是跨域访问设置；二是 /cdr/scripts/visit/normalViewPart.js 中有两处 parent。开头的代码在iframe模式下会有错，用 sub_filter 指令进行替换处理；三是cdr返回的html中有弼杰报表、grid++报表、iemr系统地址是http的，需要用 sub_filter 指令替换成 https 形式的；四是cdr的明细页面使用jquery的load方法加载的，加载html后的 <script> 里的 \$(document).ready(function(){...}); 和 \$(function(){...}); 在iframe模式下不能执行（但作为独立页面加载能执行？），需要使用 sub_filter 执行替换成立即执行函数的形式或者setTimeout延迟执行的形式。

```

server {
    listen 8001 ssl;

    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    location / {
        proxy_pass http://192.168.8.111:8001;
        proxy_set_header Host $http_host;
        proxy_set_header X-Real_IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        proxy_hide_header X-Frame-Options;
        add_header X-Frame-Options '*' always;
        add_header Content-Security-Policy 'frame-ancestors *';

        add_header Access-Control-Allow-Methods *;
        add_header Access-Control-Max-Age 3600;
        add_header Access-Control-Allow-Credentials true;
        add_header Access-Control-Allow-Origin *;
        add_header Access-Control-Allow-Headers $http_access_control_request_headers;

        if ($request_method = OPTIONS){
            return 200;
        }

        sub_filter_types *;
    }
}

```

```

    sub_filter_once off;
    # parent.在iframe模式会报跨域错误, 而且指向也不一定正确, 需要处理一下
    sub_filter 'parent.bindResize' 'var scope = window; try {var a =
parent.bindResize; scope = parent;} catch(err) {console.log(err);} scope.bindResize';
    sub_filter 'parent.toggleLeft' 'var scope = window; try {var a =
parent.toggleLeft; scope = parent;} catch(err) {console.log(err);} scope.toggleLeft';
    sub_filter 'parent.search' 'var scope = window; try {var a = parent.search;
scope = parent;} catch(err) {console.log(err);} scope.search';
    sub_filter 'parent.loadPanel' 'var scope = window; try {var a = parent.loadPanel;
scope = parent;} catch(err) {console.log(err);} scope.loadPanel';
    # iemr地址替换成做了反向代理后https形式
    sub_filter 'http://192.168.8.219:8090' 'https://192.168.8.46:8090';
    # Grid++ Report地址替换成做了反向代理后https形式
    sub_filter 'http://192.168.8.193:6060' 'https://192.168.8.46:6060';
    # 弼杰报表地址替换成做了反向代理后https形式
    sub_filter 'http://192.168.8.218:8080' 'https://192.168.8.46:7070';
}

location /cdr/exam/detail.html {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(function(){' '(function){';
    sub_filter '        });' '        }()';
}

location /cdr/lab/detail.html {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(function() {' 'setTimeout(function() {';
    sub_filter '        });' '        }, 1000);';
}

location ~ ^/cdr/inpatient/list_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter 'parent.isDateString' 'isDateString';
    sub_filter '${dollar}(function ()' 'setTimeout(function() ';
    sub_filter '        });' '        }, 1000);';
}

location ~ ^/cdr/procedure/procedure_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function(){' '(function){';
    sub_filter '    });' '    }()';
}

# 就诊索引视图
location ~ ^/cdr/visit/visitIndexViewPart_(\d)+.html$ {

```

```

proxy_pass http://136.1.79.118:8001;

sub_filter_types *;
sub_filter_once off;
sub_filter 'parent.isDateString' 'isDateString';
sub_filter 'adjustWidth(null, "#visitDeptContainer");' '';
sub_filter 'adjustWidth(this)' '';
sub_filter '${dollar}(document).ready(function() { ' '(function){';
sub_filter '    });' '    }());';
sub_filter '${dollar}(function() { ' '(function){';
sub_filter '        });' '        }());';
}

location ~ ^/cdr/visit/detail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(function() { ' '(function){';
    sub_filter '        });' '        }());';
}

location ~ ^/cdr/diagnosis/detail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function){ ' '(function){';
    sub_filter '    });' '    }());';
}

location ~ ^/cdr/drug/detail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function){ ' '(function){';
    sub_filter '    });' '    }());';
    sub_filter 'http://192.168.8.218:8080' 'https://192.168.8.46:7070';
}

location ~ ^/cdr/order/(general|care)_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function){ ' '(function){';
    sub_filter '    });' '    }());';
    sub_filter 'http://192.168.8.218:8080' 'https://192.168.8.46:7070';
}

location ~ ^/cdr/blood/requestDetail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function){ ' '(function){';

```

```

    sub_filter '    });' '    }());';
    sub_filter 'http://192.168.8.218:8080' 'https://192.168.8.46:7070';
}

location ~ ^/cdr/doc/detail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '${dollar}(document).ready(function(){' '(function){';
    sub_filter '    });' '    }());';
    sub_filter 'http://192.168.8.219:8090' 'https://192.168.8.46:8090';
}

location ~ ^/cdr/share/detail_(\d)+.html$ {
    proxy_pass http://192.168.8.111:8001;

    sub_filter_types *;
    sub_filter_once off;
    sub_filter '    });' '    }());';
    sub_filter '${dollar}(document).ready(function(){' '(function){';
    sub_filter '    });' '    }());';
    sub_filter 'http://192.168.8.219:8090' 'https://192.168.8.46:8090';
}

# location ~ ^/cdr/scripts/(visit)?((layout|normalViewPart)\.js)$ {
#     charset utf-8;
#     alias /opt/www/cdr/scripts/$1$2;
# }
}

```

Grid++ Report转PDF服务反向代理配置 grreport.conf

```

upstream grserver {
    server 192.168.8.193:6060;
}

server {
    listen 6060 ssl;

    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    location / {
        proxy_pass http://grserver;
        proxy_set_header Host $http_host;
        proxy_set_header X-Real_IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        proxy_hide_header X-Frame-Options;
        add_header X-Frame-Options '*' always;
        add_header Content-Security-Policy 'frame-ancestors *';

        add_header Access-Control-Allow-Methods *;
        add_header Access-Control-Max-Age 3600;
    }
}

```

```

    add_header Access-Control-Allow-Credentials true;
    add_header Access-Control-Allow-Origin *;
    add_header Access-Control-Allow-Headers $http_access_control_request_headers;

    if ($request_method = OPTIONS){
        return 200;
    }
}

```

老版护理文书反向代理配置 iemr.conf

```

server {
    listen 8090 ssl;

    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    location / {
        proxy_pass http://192.168.8.219:8090;
        proxy_set_header Host $http_host;
        proxy_set_header X-Real_IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        proxy_hide_header X-Frame-Options;
        add_header X-Frame-Options '*' always;
        add_header Content-Security-Policy 'frame-ancestors *';

        add_header Access-Control-Allow-Methods *;
        add_header Access-Control-Max-Age 3600;
        add_header Access-Control-Allow-Credentials true;
        add_header Access-Control-Allow-Origin *;
        add_header Access-Control-Allow-Headers $http_access_control_request_headers;

        if ($request_method = OPTIONS){
            return 200;
        }

        # 替换后端返回的Location
        proxy_redirect 'http://192.168.8.193:6060' 'https://192.168.8.46:6060';
    }
}

```

弼杰报表反响代理配置 bjreport.conf

```

server {
    listen 7070 ssl;

    ssl_certificate server.cer;
    ssl_certificate_key server.key;

    location / {
        proxy_pass http://192.168.8.218:8080;
        proxy_set_header Host $http_host;
    }
}

```

```
proxy_set_header X-Real_IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

proxy_hide_header X-Frame-Options;
add_header X-Frame-Options '*' always;
add_header Content-Security-Policy 'frame-ancestors *';

add_header Access-Control-Allow-Methods *;
add_header Access-Control-Max-Age 3600;
add_header Access-Control-Allow-Credentials true;
add_header Access-Control-Allow-Origin *;
add_header Access-Control-Allow-Headers $http_access_control_request_headers;

if ($request_method = OPTIONS){
    return 200;
}

#proxy_redirect 'http://192.168.8.193:6060' 'https://192.168.8.46:6060';
}
}
```

最后在菜单管理中加入菜单，并把地址设为

```
https://192.168.8.46:8001/cdr/login/loginInpatientIntegrated.html?
userId=cdr&patientId=${PA_ID}&domainId=02&inpatientType=02&sceneType=11
```