QR Codes in ClearPass Guest

This is a CLASS-2 Article - CUSTOMER APPROVED CONTENT

Contents

Simple Javascript Method

I am using the jQuery plugin @ https://github.com/jeromeetienne/jquery-qrcode to convert your Guest Self-Registration password (aka {$password}) to an actual QR code.

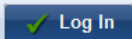Save the minified [.js] file and **upload to content manager** (public folder?):

CPGuest > Config > Content Manager > Upload

Now add the code to your **Guest Self-Registration FOOTER** as follows:

CPGuest > Config > Guest Self-Reg > Edit > Receipt :: Footer HTML :: (Paste in the following code:)
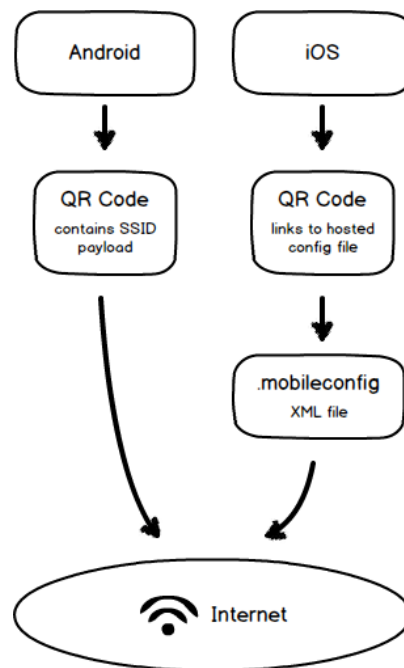


```
{nwa_script src=jquery.min}

{literal}
<style>
.nwaPassword canvas {
    float: right;
}
</style>

<script type="text/javascript" src="public/jquery.qrcode.min.js"></script>
<script>
    jQuery('.nwaPassword').qrcode({width: 120,height: 120,text:"{/literal}{$password}{literal}"});
</script>
{/literal}
```

Advanced Android/iOS Method

We can use the Javascript method to generate QR codes specifically for Android and iOS devices:

Demo @ https://clearpass.arubademo.net/guest/qr_demo.php

Android

QR codes for Android devices can contain your SSID payload (e.g. SSID name, PSK, etc.), in the following format:

```
WIFI:T:WPA;S:0_harry_ssid;P:QRClearPass;;
```

Convert that string to a QR code using the Javascript method:

```
jQuery('#qrcode_android').qrcode("WIFI:T:WPA;S:0_harry_ssid;P:QRClearPass;;")
```

This will automatically connect your device to an SSID called **0_harry_ssid** w/ PSK of **QRClearPass**.

Note: Change "WPA" to **nopass** if you're connecting to a Guest SSID without a PSK!

iOS

Unfortunately, iOS involves an extra step--you need to create a mobileconfig file, host it somewhere, and use the QR code to link to the hosted file.

Hint: You can use the Apple Configurator tool to create a .mobileconfig file with the Wi-Fi network settings.

Here is a sample file in XML format that we'll save-as **ios.mobileconfig** and host on a server:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
        <key>PayloadContent</key>
        <array>
```
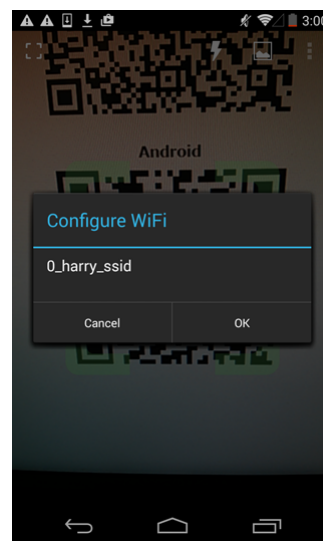
```
            <dict>
                    <key>EncryptionType</key>
                    <string>Any</string>
                    <key>HIDDEN_NETWORK</key>
                    <false/>
                    <key>Password</key>
                    <string>Password90210</string>
                    <key>PayloadDescription</key>
                    <string>Configures wireless
                    <key>PayloadDisplayName</key>
                    <string>Wi-Fi (0_harry_ssid)
                    <key>PayloadIdentifier</key>
                    <string>com.harrytest.wifi</
                    <key>PayloadOrganization</key>
                    <string></string>
                    <key>PayloadType</key>
                    <string>com.apple.wifi.manag
                    <key>PayloadUUID</key>
                    <string>F68D18C8-23A2-413B-A
                    <key>PayloadVersion</key>
                    <integer>1</integer>
                    <key>SSID_STR</key>
                    <string>0_harry_ssid</string
            </dict>
    </array>
    <key>PayloadDescription</key>
    <string>Profile to auto-connect to wifi</str
    <key>PayloadDisplayName</key>
    <string>harrytest: 0_harry_ssid</string>
    <key>PayloadIdentifier</key>
    <string>com.harrytest</string>
    <key>PayloadOrganization</key>
    <string></string>
    <key>PayloadRemovalDisallowed</key>
    <false/>
    <key>PayloadType</key>
    <string>Configuration</string>
    <key>PayloadUUID</key>
    <string>C5D1927E-C4AA-4FAD-8A1C-D816D3D573F2
    <key>PayloadVersion</key>
    <integer>1</integer>
</dict>
</plist>
```
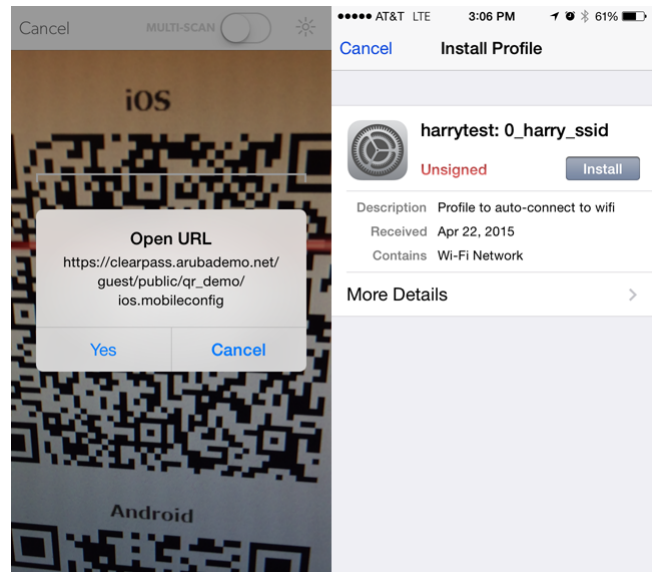
Convert that string to a QR code using the Javascript method:

```
jQuery('#qrcode_ios').qrcode("https://clearpass.arubademo.net/guest/public/qr_demo/ios.mobileconfig");
```

This will ask you to visit a URL which will contain your mobileconfig file (e.g. https://clearpass.arubademo.net/guest/public/qr_demo/ios.mobileconfig). You will be prompted to install a profile which contains the SSID payload from the mobileconfig XML above.

After installing the profile, it will automatically connect your device to an SSID called **0_harry_ssid** w/ PSK of **QRClearPass**.

See also:

https://9to5mac.com/2017/06/09/ios-11-scan-routers-qr-code-quickly-join-network/

Additional Resources

ClearPass_Guest_HTML_Cheatsheet

How-to:_ClearPass_Guest_Advertising
How-to:_ClearPass_Guest_Widgets
How-to:_ClearPass_Guest_Splash_Page_with_Buttons
How-To:_Custom_Skin_ClearPass_Guest
How-to:_Auto_Submit_Amigopod_Receipt
How-To:_Custom_Skin_HTML_tips
CPGuest_Print_Kiosk_Tutorial
Prebuilt_Error_Pages_in_CPPM
Terms_and_Conditions_on_ClearPass
ClearPass_Guest_Translation_Packs
ClearPass_Guest_Skins

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