

3.1 – Use 8 lines of code to start a remote connection from a web page

Save a JavaScript file as tutorial1.page.js with the following content:

```
window.onload = function() {  
    var gateway = '192.168.12.111', //change this to your Spark gateway address  
    server = '192.168.12.117', //change this to your RDP server address  
    url = 'ws://' + gateway + '/RDP?server=' + server + '&user=vmuser&pwd=password';  
    var r = new svGlobal.Rdp(url);  
    r.addSurface(new svGlobal.LocalInterface());  
    r.run();  
};
```

Save a web page as tutorial1.html with the following content:

```
<!doctype html>  
<html>  
<head>  
    <meta http-equiv="X-UA-Compatible" content="IE=edge">  
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  
    <title>Spark View (RDP)</title>  
    <meta name="viewport" content="width = device-width, initial-scale = 1.0, user-scalable = yes, minimum-scale = 0.1, maximum-scale = 8" />  
    <meta name="apple-mobile-web-app-capable" content="yes" />  
    <link rel="stylesheet" href="../hi5.css" />  
    <link rel="stylesheet" href="../rdp.css" />  
    <script type="text/javascript" src="../appcfg.js"></script>  
    <script type="text/javascript" src="../resource.js"></script>  
    <script type="text/javascript" src="../hi5core_min.js"></script>  
    <script type="text/javascript" src="../hi5_min.js"></script>  
    <script type="text/javascript" src="../surface_min.js"></script>
```

```

<script type="text/javascript" src="../rdpcore_min.js"></script>
<script type="text/javascript" src="../rdp_min.js"></script>
<script type="text/javascript" src="tutorial1.page.js"></script>
</head>
<body>
  <div>
    <canvas id="remotectrl"></canvas>
  </div>
</body>
</html>

```

Double click on the html file and open it in your browser. You don't even need a HTTP server for this demo.

Checklist:

- to enable HTML5.
- `<meta http-equiv="X-UA-Compatible" content="IE=edge">` to suggest Internet Explorer using the edge web engine.
- Viewport meta tag for touch interface
- "apple-mobile-web-app-capable" meta tag to allow users to create shortcut on home screen (iOS).
- SparkView JavaScript libraries for RDP connection: appcfg.js (configuration), resource.js (language resource), hi5_min.js (common utilities), surface_min.js (UI), rdp_min.js (RDP decoder). Don't forget hi5.css and rdp.css style sheets.
- A canvas element with id "remotectrl" to display the remote connection. If you are using a different id, you need to specify it when creating the LocalInterface in your JavaScript code:


```
new svGlobal.LocalInterface('MyCanvasId')
```
- Make sure the JavaScript library is loaded before you start a remote connection. A good place is the window.onload event.
- SparkView client will manage the width and height of canvas. Never try to set it up in your code. Never set up the width and height with CSS.
- Make sure you include hi5core_min.js and rdpcore_min.js since 5.0.
- You can set `userWorker: false` in appcfg.js to disable Web Workers (JavaScript threads).

Troubleshooting:

- Check the JavaScript console log from your browser (F12 or Developer Tools)
- Check SparkView log (InstallDir/logs/)
- Internet Explorer may still be in legacy mode.
- You may need to configure hi5.libPath if you are using the JS library in your portal. For example, you can configure this in appcfg.js:


```
hi5.appcfg = {...}; hi5.libPath = 'pathRelatedToYourWebRoot';
```
- The web worker will load rdpworker_min.js, hi5core_min.js, rdpcore_min.js at runtime. They are supposed to be in the same directory with your web page by default. If not, you

can configure `hi5.libPath` to resolve this issue, but if your gateway is behind VPN and JavaScript rewriter is used by the VPN, this path can be rewritten with a wrong value (VPN JS rewriter bug). In this case, you can leave `hi5.libPath` as blank and copy those 3 js files to the web page directory as a workaround.

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