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Beijing Stone Software Technology Co.,Ltd



## POC标准化实施指南

### 基础环境

#### 08 客户端配置和访问

版本：v1.0

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## 修正历史

修正	改变说明	更新者	日期
V1.0	新建	陈余南、李申君、 孙凌、杨华	2014年7月11日

## 第1章 主要步骤

- Windows Receiver客户端安装和配置
- iPad Receiver客户端安装和配置
- Android Receiver客户端安装和配置
- 验证所有的平台Receiver工作正常

## 第2章 环境检查

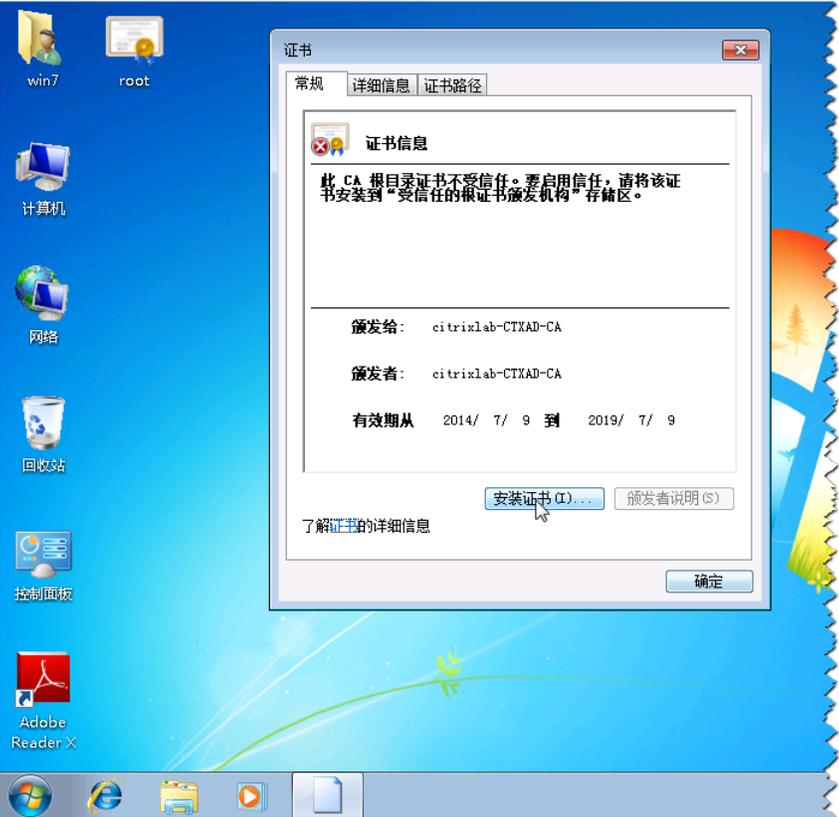
- XenApp和XenDesktop架构搭建完成，正常运行
- 了解并准备StoreFront和NetScaler VIP的连接地址
- 已经创建好用于Receiver连接的连接账号
- 准备一台Windows 7安装Citrix Receiver客户端的平台
- 准备XenDesktop 7.5 光盘安装介质

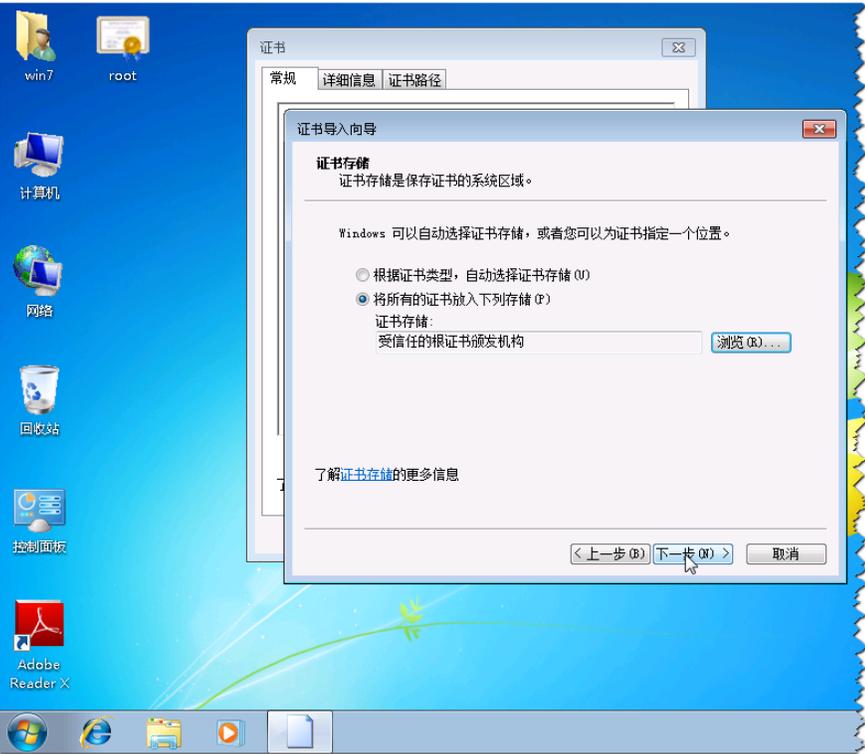
## 第3章 Windows Receiver 客户端安装配置

### 3.1 安装 root 根证书

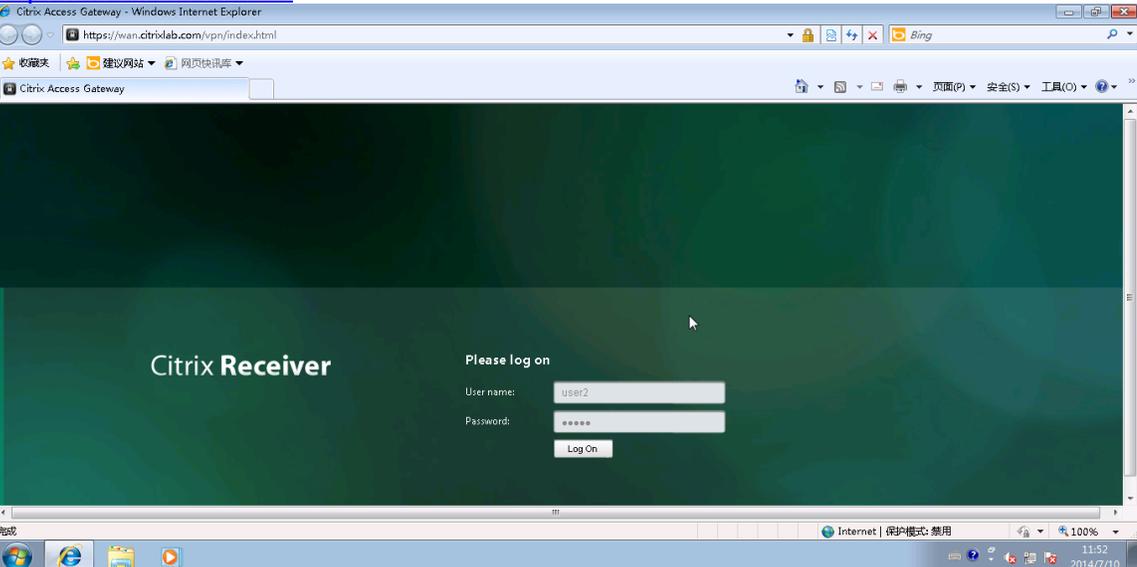
PoC 环境使用的是自签证书，所以不在此测试域内的设备，默认都不信任此证书，所以无法访问 NetScaler 发布的站点并获取各种资源。因此我们需要在猜测是用设备上安装此根证书。

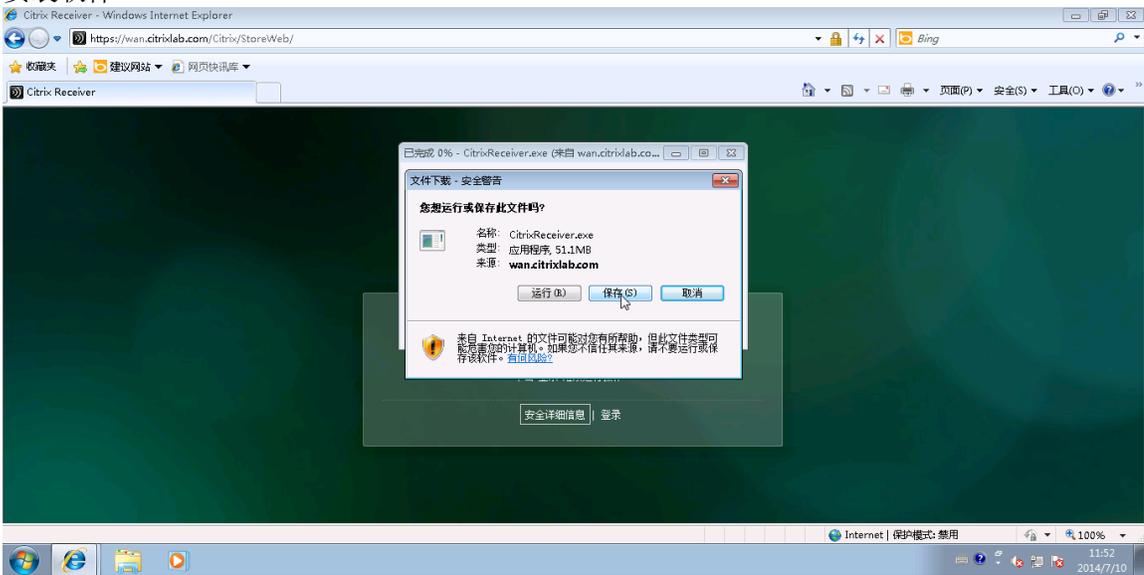
在实际项目部署中，请使用权威的三方证书颁发机构所签发的证书。如：<http://www.verisign.com/>

步骤	操作
1.	<p>安装 root 根证书 可以参考《PoC 手册 - 附录 - PC root 证书的导入》 将 root.cer 复制到桌面，打开并安装证书</p> 

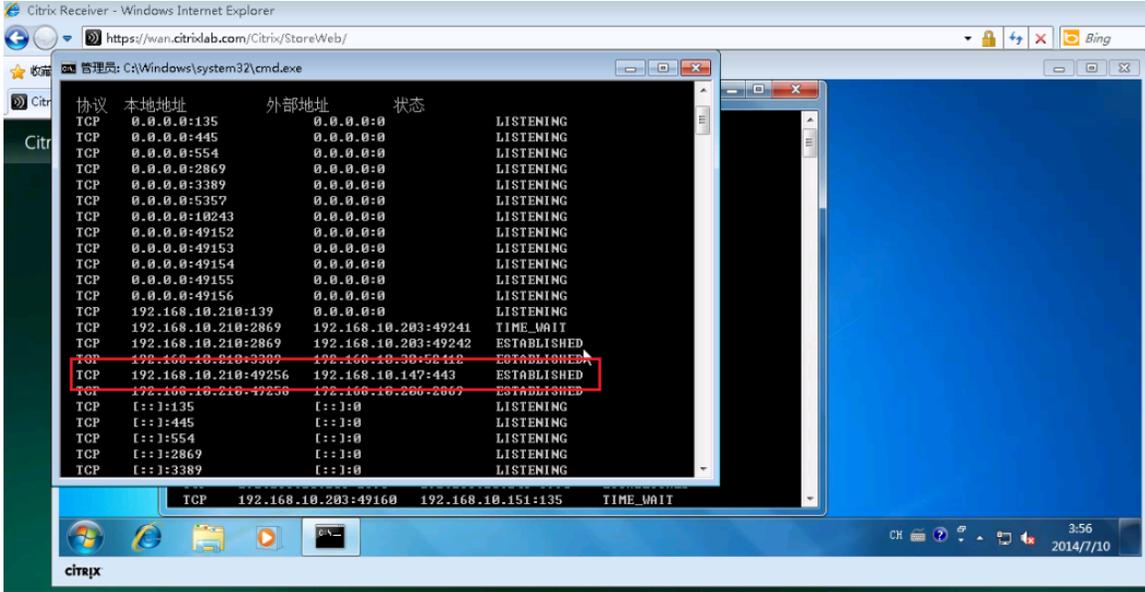
步骤	操作
2.	<p>选择证书存储位置，下一步，直至导入完成</p> 

### 3.2 Windows Receiver 客户端下载及访问验证

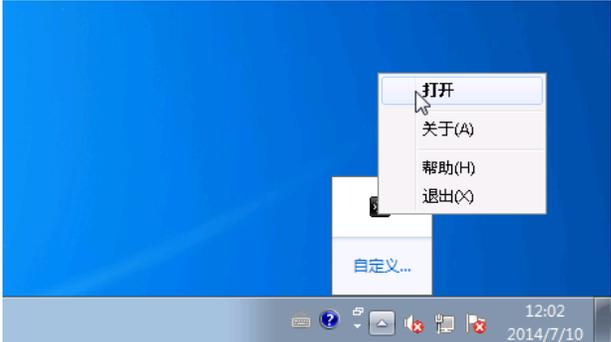
步骤	操作
1.	<p>打开 NetScaler 发布的站点，并输入用户名和密码，点击登录（Log On）</p> <p><a href="https://wan.citrixlab.com">https://wan.citrixlab.com</a></p> 

步骤	操作
2.	<p>提示下载 Receiver 的时候，点击安装</p> 
3.	<p>安装软件</p> 

步骤	操作
4.	<p>继续安装</p>  <p>The screenshot shows a Windows 7 desktop with a blue background. A window titled "Citrix Receiver" is open in the center. The window contains the Citrix Receiver logo and the following text: "欢迎使用 Citrix Receiver 安装程序" (Welcome to the Citrix Receiver installation program) and "单击“安装”可在您的计算机上安装 Citrix Receiver" (Click "Install" to install Citrix Receiver on your computer). At the bottom of the window, there are two buttons: "安装(I)" (Install) and "取消" (Cancel).</p>
5.	<p>安装完成</p>  <p>The screenshot shows the same Windows 7 desktop. The "Citrix Receiver" window now displays a green checkmark and the text: "已成功安装!" (Installation successful!). Below this, it says: "如果您收到提示，请您使用电子邮件或服务地址设置 Receiver，请单击“添加帐户”" (If you receive a prompt, please use email or service address to set up Receiver, click "Add Account"). At the bottom of the window, there are two buttons: "添加帐户(A)" (Add Account) and "完成(F)" (Finish).</p>

步骤	操作
6.	<p>再次登录 右键点击，运行加载项，并登录</p> 
7.	<p>登录后可以在本地使用 netstat -an 查看端口连接</p> 

### 3.3 Windows Native Receiver 登录

<p>1.</p>	<p>登录到本地计算机，在任务栏中找到 Receiver，右键，打开</p> 
<p>2.</p>	<p>输入 NetScaler 发布站点地址，下一步 <a href="https://wan.citrixlab.com">https://wan.citrixlab.com</a></p> 
<p>3.</p>	<p>输入用户名和密码，登录</p> 

4. 允许优化，点击是



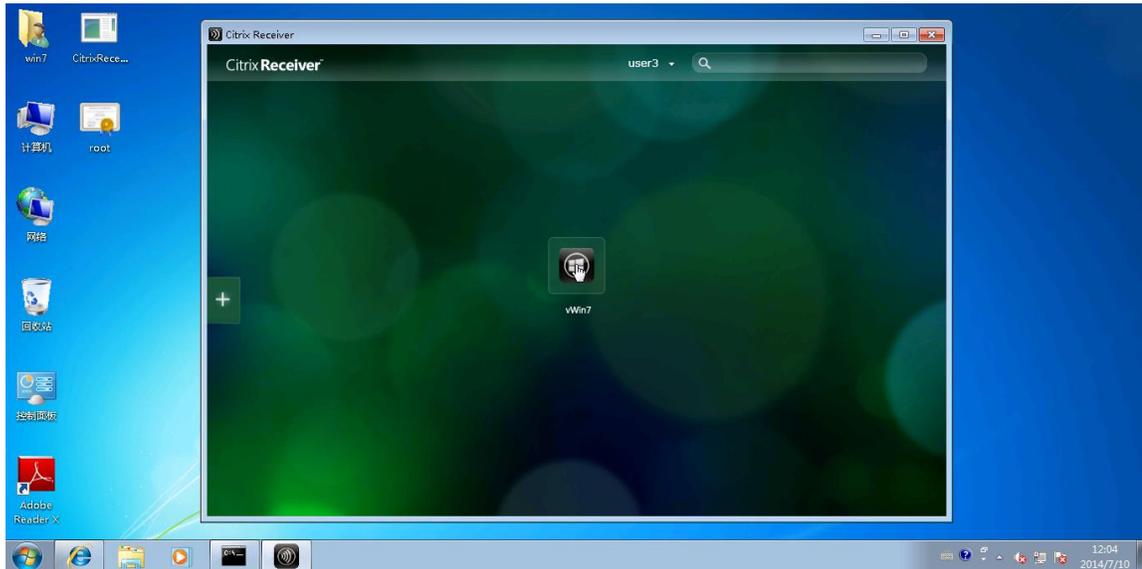
5. 完成



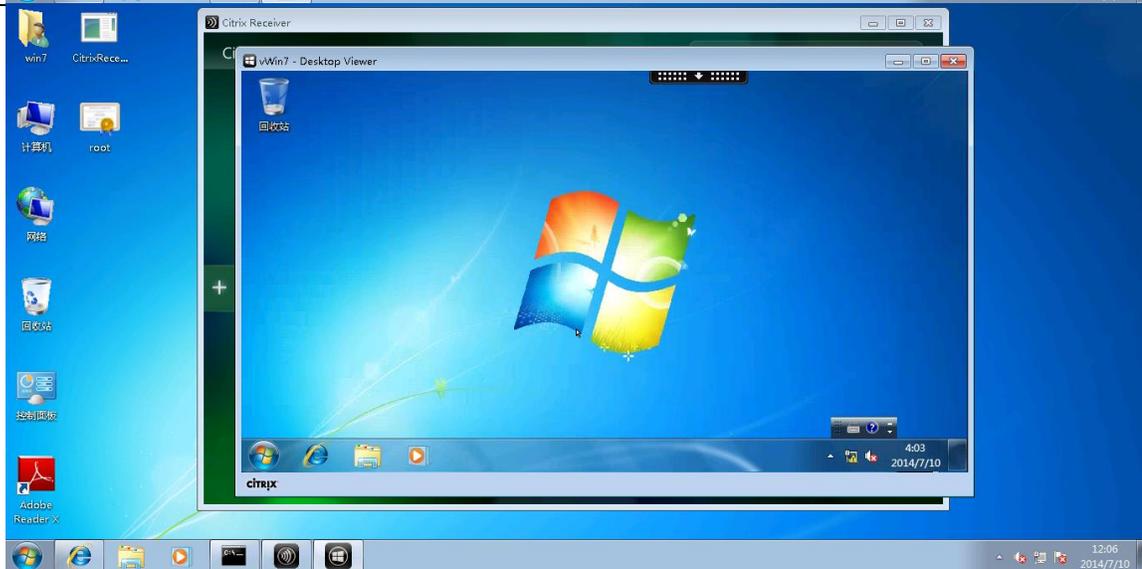
6. 在应用列表页面，点击左边的+，展开“所有应用程序”，点击 vWin7



7. 将 vWin7 添加到应用列表首页，点击图标，打开 vWin7



8.



9. 本地使用 netstat -an 查看端口连接

```

管理员: C:\Windows\system32\cmd.exe

协议 本地地址 外部地址 状态
TCP 0.0.0.0:135 0.0.0.0:0 LISTENING
TCP 0.0.0.0:445 0.0.0.0:0 LISTENING
TCP 0.0.0.0:554 0.0.0.0:0 LISTENING
TCP 0.0.0.0:2869 0.0.0.0:0 LISTENING
TCP 0.0.0.0:3389 0.0.0.0:0 LISTENING
TCP 0.0.0.0:5357 0.0.0.0:0 LISTENING
TCP 0.0.0.0:10243 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49152 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49153 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49154 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49155 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49156 0.0.0.0:0 LISTENING
TCP 192.168.10.210:139 0.0.0.0:0 LISTENING
TCP 192.168.10.210:2869 192.168.10.203:49241 TIME_WAIT
TCP 192.168.10.210:2869 192.168.10.203:49242 ESTABLISHED
TCP 192.168.10.210:3389 192.168.10.30:52412 ESTABLISHED
TCP 192.168.10.210:49256 192.168.10.147:443 ESTABLISHED
TCP 192.168.10.210:49258 192.168.10.206:2869 ESTABLISHED
TCP [::]:135 [::]:0 LISTENING
TCP [::]:445 [::]:0 LISTENING
TCP [::]:554 [::]:0 LISTENING
TCP [::]:2869 [::]:0 LISTENING
TCP [::]:3389 [::]:0 LISTENING
    
```

## 第4章 iPad Receiver 客户端安装配置

### 4.1 iPad 安装根证书及 Receiver 下载

PoC 环境使用的是自签证书，所以各种移动设备默认并不信任此证书，所以默认无法访问 NetScaler 发布的站点并获取各种资源。因此我们需要在移动设备上安装此根证书。

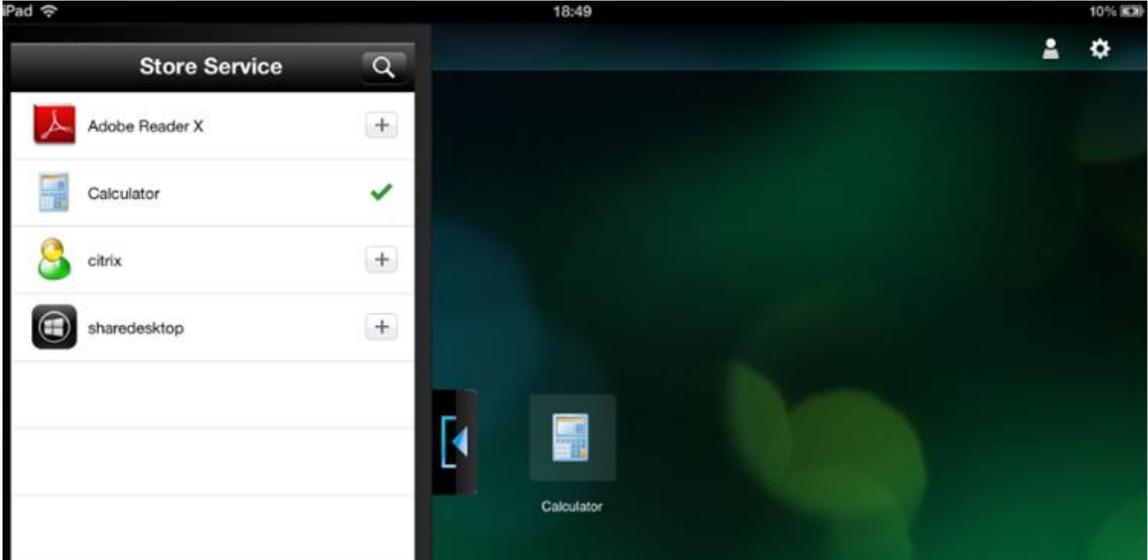
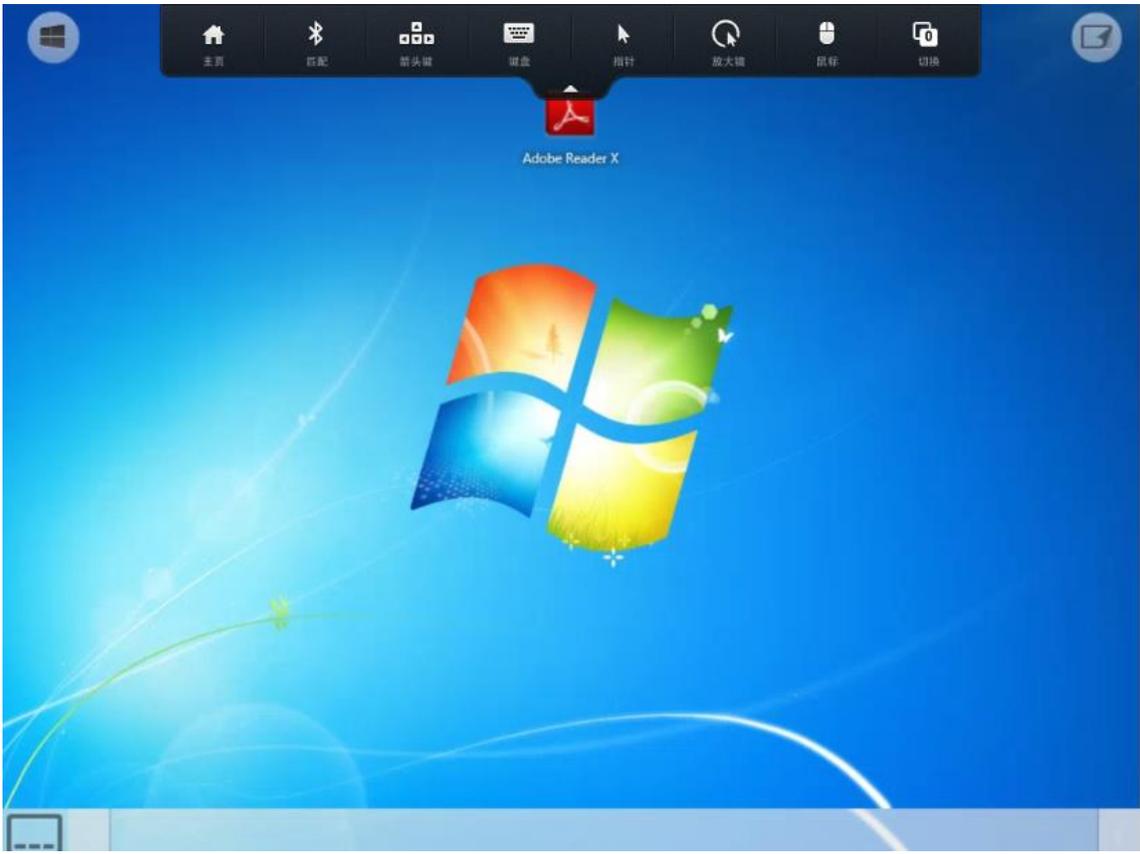
步骤	操作
1.	<p>使用前把根证书发送到自己的个人邮箱，推荐 163 或者 QQ 邮箱 然后点击打开 备注：如果购买公网证书，可以跳过此步骤</p> 
2.	<p>点击安装-直到完成。</p> 

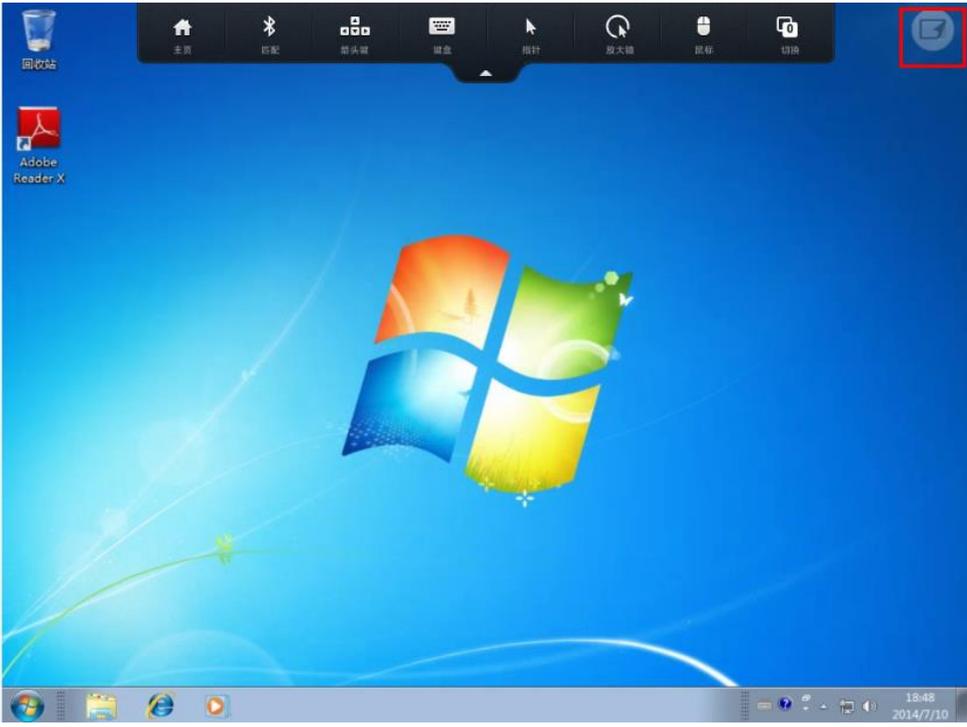
步骤	操作
3.	<p>可以到通用，描述文件里查看和删除证书</p> 
4.	<p>在 iPad AppStore 里输入 citrix,找到 Citrix Receiver, 点击安装。</p> 

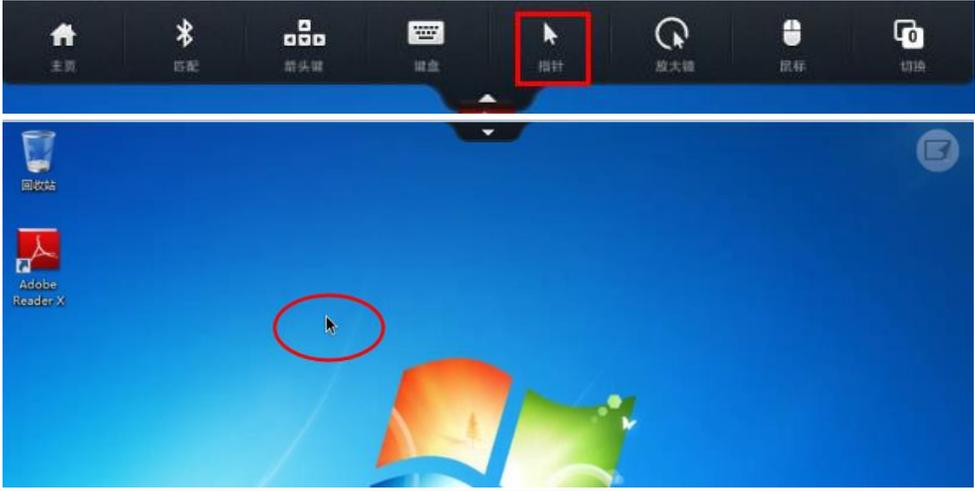
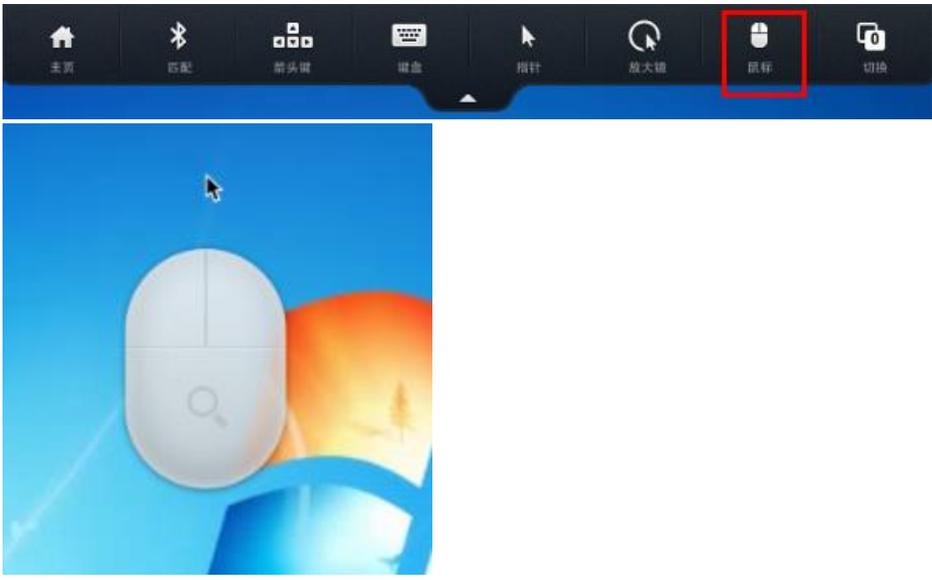
步骤	操作
5.	<p>安装完成，看到Receiver图标，点击进入。</p>  <p>The screenshot shows an iPad home screen with a blue wave background. The status bar at the top displays 'iPad', signal strength, '18:30', and '15%' battery. The dock at the bottom contains Safari, Mail, 照片 (Photos), and 音乐 (Music). The main screen has a grid of app icons: 信息 (Messages), 日历 (Calendar), 备忘录 (Notes), 提醒事项 (Reminders), 地图 (Maps), YouTube, 视频 (Videos), 通讯录 (Contacts), Game Center, iTunes, App Store, 报刊杂志 (Newsstand), FaceTime, 相机 (Camera), Photo Booth, and 设置 (Settings). The 'Receiver' app icon, which is a black square with a white signal icon, is highlighted with a red rectangular box.</p>

## 4.2 iPad Receiver 登录设置及使用技巧

步骤	操作
1.	<p>进入Receiver后，点击添加帐户</p> 
2.	<p>输入地址wan.citrixlab.com 也可以输全<a href="https://wan.citrixlab.com">https://wan.citrixlab.com</a> 然后点击下一步</p> 
3.	<p>输入账号和密码，域填citrixlab，点击登录</p> 

步骤	操作
4.	<p>登录后显示应用程序和桌面</p> 
5.	<p>登录后桌面</p> 

步骤	操作
6.	<p>使用技巧1 Citrix自动把桌面优化成触屏模式</p> 
7.	<p>使用技巧2 点击右上角图标，可以还原成Windows风格</p> 

步骤	操作
8.	<p>使用技巧3 调用指针</p>  <p>The screenshot shows the Citrix toolbar at the top with icons for Home, Bluetooth, Start Menu, Keyboard, Pointer, Magnifying Glass, Mouse, and Switch. The 'Pointer' icon is highlighted with a red box. Below the toolbar is a Windows desktop with icons for Recycle Bin and Adobe Reader X. A mouse cursor is visible on the desktop, also highlighted with a red circle.</p>
9.	<p>使用技巧4 调用小鼠标</p>  <p>The screenshot shows the Citrix toolbar with the 'Mouse' icon highlighted by a red box. Below the toolbar, a mouse cursor is shown on the desktop, and a large, semi-transparent mouse icon is overlaid on the desktop background.</p>

步骤	操作
<p><b>10.</b></p>	<p>使用技巧5 Media视频重定向</p>  <p>The screenshot shows the Citrix Receiver application interface on an iPad. The settings menu is open, and the 'Windows Media 重定向' (Windows Media Redirection) toggle switch is turned on and highlighted with a red box. Other visible settings include '显示选项', '键盘选项', '音频', '高级', '安全令牌', and '关于'. The background shows a blurred desktop environment with icons for 'Calculator' and 'sharedesktop'.</p>
<p><b>11.</b></p>	<p>其他技巧</p> <ol style="list-style-type: none"> <li>1、手指长按三秒放开是右击</li> <li>2、三个手指同时按是自动调处键盘</li> <li>3、连续按两下手指是打开</li> </ol>

至此，iPad Receiver 客户端安装配置及访问验证完成。

## 第5章 Android Receiver 客户端安装配置

### 5.1 下载 Citrix Receiver

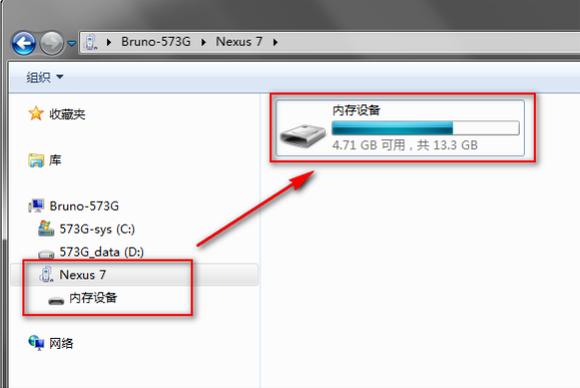
同 Windows 及 iOS 设备一样，Citrix Receiver 也支持 Android 设备。但由于 Google 服务目前在国  
内几乎无法提供，而国内各安卓市场中 Citrix Receiver 的版本相对较旧，请通过如下地址下载，并手动  
安装。截止到 2014 年 11 月，最新版 Android Receiver 版本为 3.6。

<https://citrix.sharefile.com/d-s0f03f5bae4e4161a>

### 5.2 Android 设备安装根证书

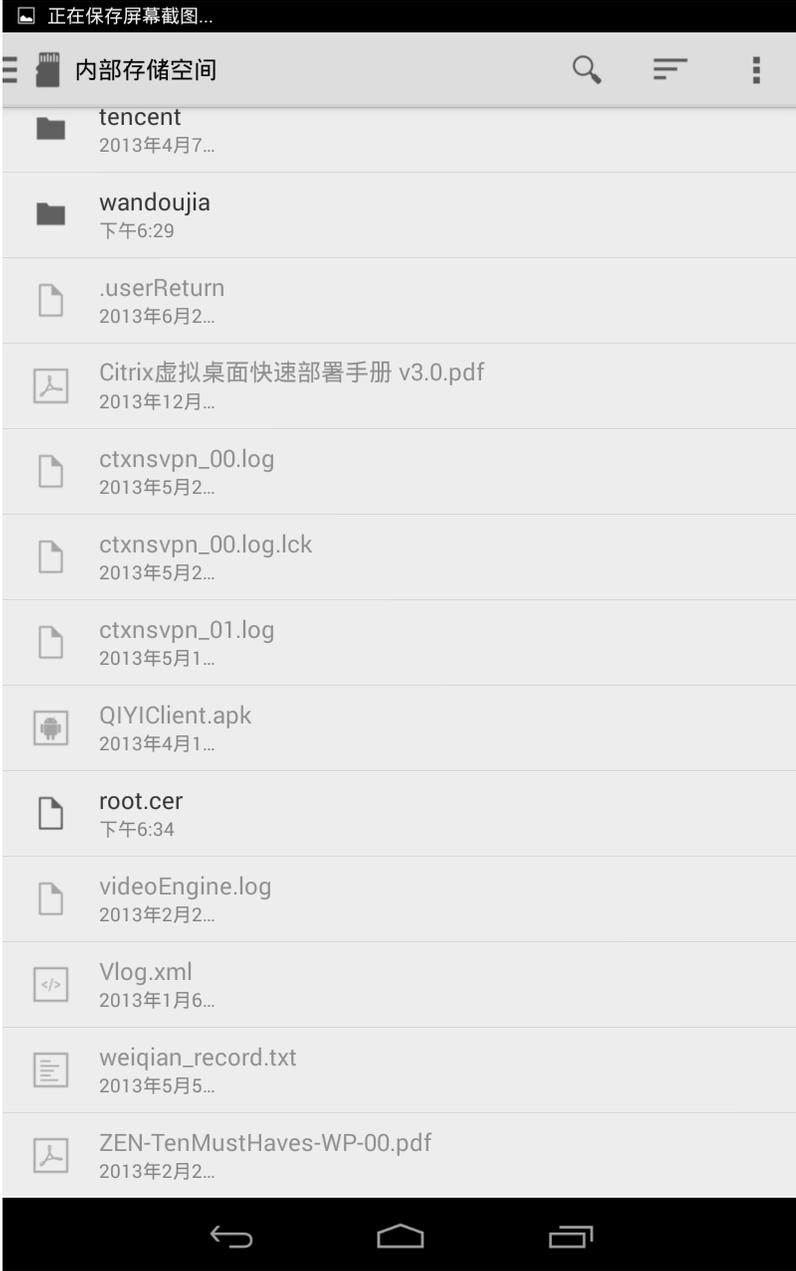
PoC 环境使用的是自签证书，所以各种移动设备默认并不信任此证书，所以默认无法访问  
NetScaler 发布的站点并获取各种资源。因此我们需要在移动设备上安装此根证书。

步骤	操作
1.	<p>Android 版本较多，本次 PoC 使用的版本是 4.4.2</p> 

步骤	操作
2.	<p>将 root.cer 文件复制到 Android 设备                      使用 usb 连接线，将 Android 连接至 PC，并保持设备屏幕开启（如果屏幕锁定，将无法看到“内存设备”）                      打开资源管理器，浏览到如下位置。</p>  <p>The screenshot shows a Windows File Explorer window with the address bar set to 'Bruno-573G &gt; Nexus 7'. The left sidebar shows the 'Nexus 7' drive selected. The main pane displays the '内存设备' (Internal Storage) folder, which is highlighted with a red box. A red arrow points from this folder to the '内存设备' folder in the left sidebar, which is also highlighted with a red box. The storage details show '4.71 GB 可用, 共 13.3 GB'.</p>
3.	<p>双击打开“内存设备”，将 root.cer 复制到设备自身存储设备的根目录                      关于“设备自身存储设备的根目录”的说明：                      一般 Android 设备都带有文件管理器，能够浏览的最高级目录是“/”，                      而“设备自身存储设备的根目录”一般是指                      /storage/sdcard0                      或                      /storage/0</p>
4.	<p>打开设置，安全</p>  <p>The screenshot shows an Android Settings application with a dark theme. The '设置' (Settings) icon is at the top. Below it, several menu items are listed: '存储' (Storage), '电池' (Battery), '应用' (Apps), '用户' (Users), '个人' (Personal), '位置信息' (Location), and '安全' (Security). The '安全' option is highlighted with a red box.</p>

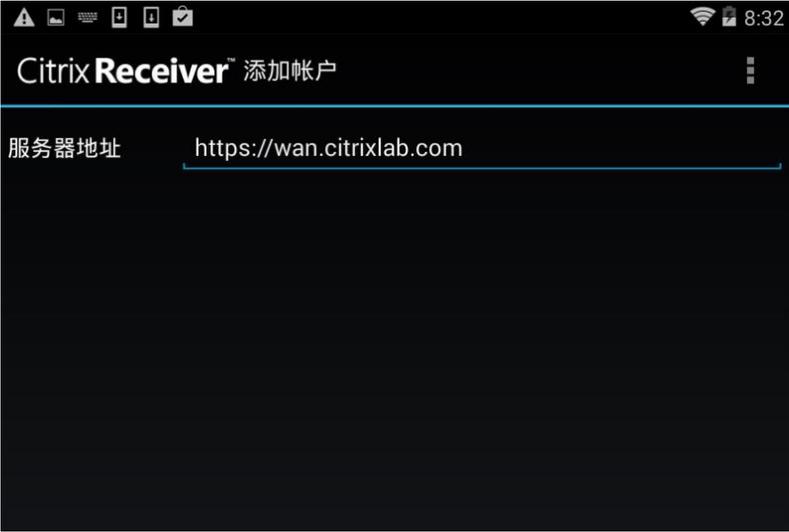
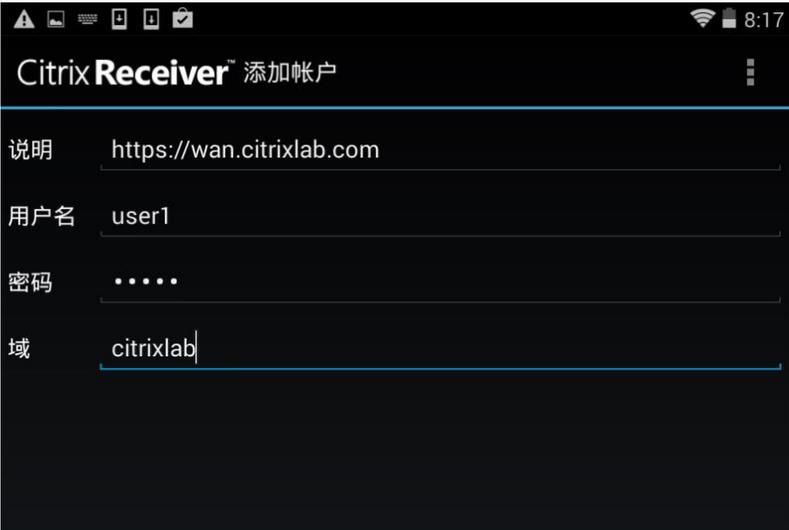
步骤	操作
5.	<p>浏览并点击“从存储设备安装”</p>  <p>The screenshot shows a dark-themed mobile application menu. At the top, it says '存储类型' (Storage type) with '硬件支持' (Hardware support) below it. The next option is '受信任的凭据' (Trusted credentials) with '显示受信任的 CA 证书' (Show trusted CA certificates) below it. The third option is '从存储设备安装' (Install from storage), which is highlighted in a lighter shade, with '从存储设备安装证书' (Install certificates from storage) below it. The final option is '清除凭据' (Clear credentials) with '删除所有证书' (Delete all certificates) below it. At the bottom of the screen, there is a navigation bar with three icons: a back arrow, a home icon, and a multi-tasking icon.</p>

步骤	操作
6.	<p>此时会打开文件管理器，点击“内部存储空间” 每种 Android 设备的文件管理器可能不同，但概念基本相同，请找到“设备自身的存储空间”即/storage/sdcard0 或/storage/0</p>  <p>The screenshot shows an Android file manager interface. At the top, there's a status bar with icons for home, back, and search, and the time 7:06. Below that is a header bar with a hamburger menu icon and the text '打开文件' (Open files), and a vertical ellipsis menu icon on the right. The main content area is split into two panes. The left pane has a '最近' (Recent) section with a clock icon, followed by '云端硬盘' (Cloud Drive) with a Google Drive icon and email 'citrixsh@gmail.com', '下载内容' (Download content) with a download icon, and '内部存储空间' (Internal storage) with a storage icon and '可用空间：4.81 GB' (Available space: 4.81 GB). The right pane is dark grey and contains the text '无任何文件' (No files).</p>

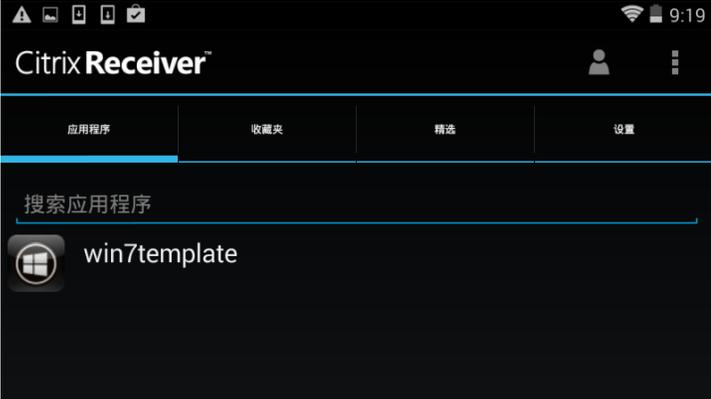
步骤	操作
7.	<p>找到 root.cer</p>  <p>The screenshot shows an Android file manager interface. At the top, there is a status bar with the text '正在保存屏幕截图...'. Below it is a header bar with the title '内部存储空间' (Internal Storage) and icons for search, list view, and menu. The main area displays a list of files and folders:</p> <ul style="list-style-type: none"> <li>tencent (Folder, 2013年4月7...)</li> <li>wandoujia (Folder, 下午6:29)</li> <li>.userReturn (File, 2013年6月2...)</li> <li>Citrix虚拟桌面快速部署手册 v3.0.pdf (PDF, 2013年12月...)</li> <li>ctxnsvpn_00.log (File, 2013年5月2...)</li> <li>ctxnsvpn_00.log.lck (File, 2013年5月2...)</li> <li>ctxnsvpn_01.log (File, 2013年5月1...)</li> <li>QIYIClient.apk (APK, 2013年4月1...)</li> <li><b>root.cer</b> (File, 下午6:34) - This file is highlighted in the screenshot.</li> <li>videoEngine.log (File, 2013年2月2...)</li> <li>Vlog.xml (XML, 2013年1月6...)</li> <li>weiqian_record.txt (Text, 2013年5月5...)</li> <li>ZEN-TenMustHaves-WP-00.pdf (PDF, 2013年2月2...)</li> </ul> <p>At the bottom of the screen, there is a navigation bar with three icons: back, home, and recent apps.</p>

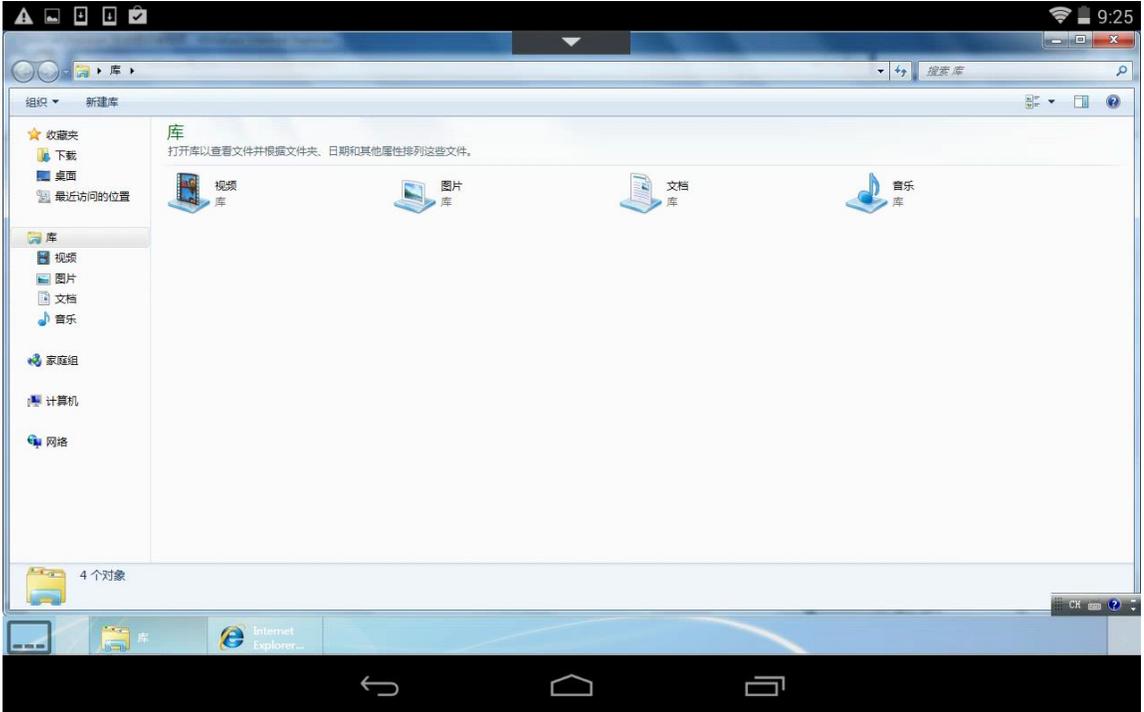
步骤	操作
8.	<p>为证书命名, citrixlab.local</p> 
9.	<p>如果没有设置解锁密码、手势解锁、PIN 码, 可能会出现如下提示。按确定并根据向导设置即可。</p> 
10.	<p>设置完成后, 依次打开设置, 安全, 受信任的凭据, 用户可以看到证书已经安装</p> 

## 5.3 Android 设备 Receiver 登录设置及体验

步骤	操作
1.	<p>打开 Citrix Receiver，点击添加账户，输入 NetScaler 外网发布地址 <a href="https://wan.citrixlab.com">https://wan.citrixlab.com</a></p> <p>下一步</p> 
2.	<p>依次输入相应信息，点击添加</p> 

步骤	操作
3.	<p>看到刚才添加的新账户</p>  <p>The screenshot shows the Citrix Receiver app interface. At the top, the title bar reads "Citrix Receiver™ 帐户". Below this, there is a list of six accounts, each represented by a folder icon and a blurred name. To the right of each account name is a pencil icon, indicating that the account can be edited. At the bottom of the list, there is a blue bar with the URL "https://wan.citrixlab.com" and a pencil icon to its right. The status bar at the top right shows the time as 9:41.</p>
4.	<p>要求再次输入用户名密码</p>  <p>The screenshot shows the Citrix Receiver app interface with a login dialog box displayed. The title bar reads "Citrix Receiver™ Citrix Receiver". The dialog box has two input fields: the first contains the username "citrixlab\\user1" and the second is labeled "密码" (Password). Below the input fields are two buttons: "取消" (Cancel) and "登录" (Login). The status bar at the top right shows the time as 9:41.</p>

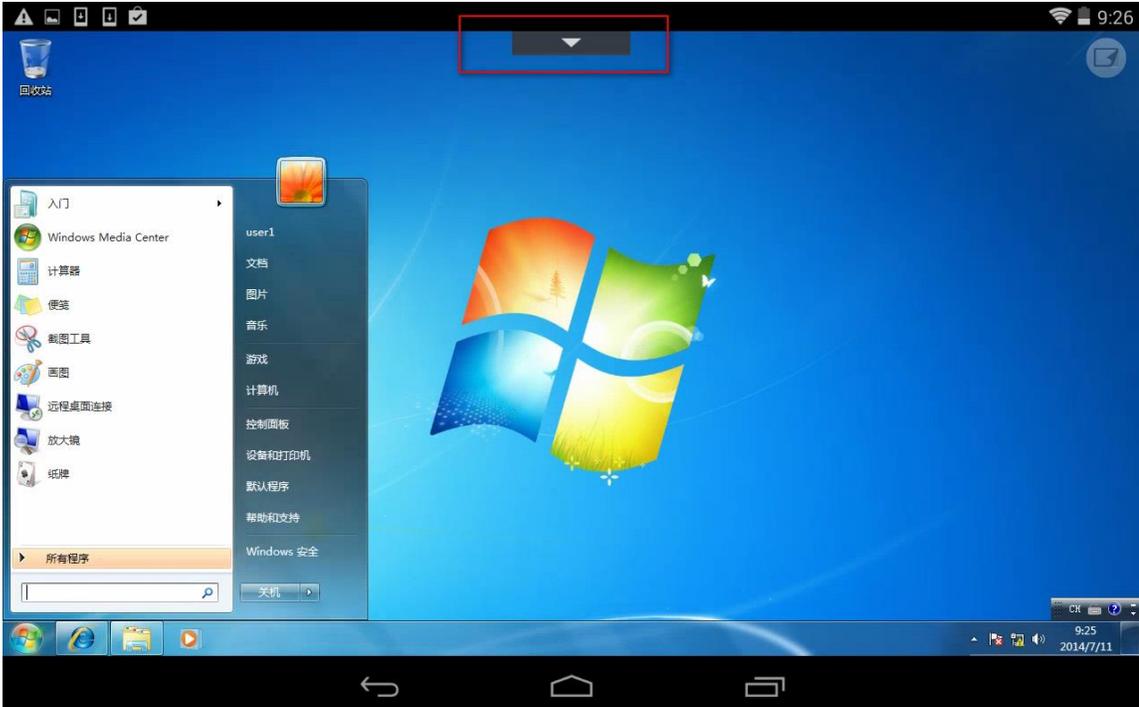
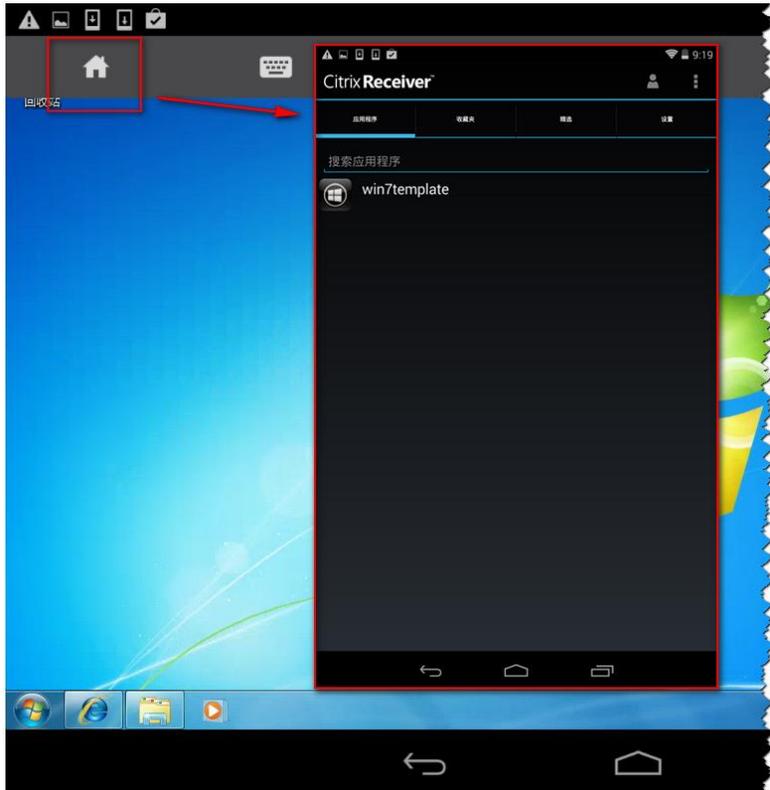
步骤	操作
5.	<p>看到应用和桌面，点击桌面</p>  <p>The screenshot shows the Citrix Receiver application interface. At the top, there's a status bar with icons for notifications, battery, and time (9:19). Below that, the text 'Citrix Receiver' is displayed. A navigation bar contains four tabs: '应用程序' (Applications), '收藏夹' (Favorites), '精选' (Picks), and '设置' (Settings). Underneath, there's a search bar labeled '搜索应用程序' (Search Applications) with a search icon. A single application card is visible, titled 'win7template' with a Windows logo icon.</p>
6.	<p>进入桌面，默认进入的桌面已经经过 Citrix 优化，专为移动设备设计                      左上角，Win 图标                      右上角，返回 Windows7 原生桌面                      左下角，最小化/还原所有窗口</p>  <p>The screenshot shows a Windows 7 desktop environment running on a mobile device. The desktop background is the standard Windows 7 blue wallpaper with the logo. In the top-left corner, the Windows Start button is highlighted with a red box. In the top-right corner, a square button with a left-pointing arrow is highlighted with a red box. In the bottom-left corner, a taskbar icon representing a minimized window is highlighted with a red box. The bottom of the screen shows the mobile OS navigation bar with back, home, and recent apps icons.</p>

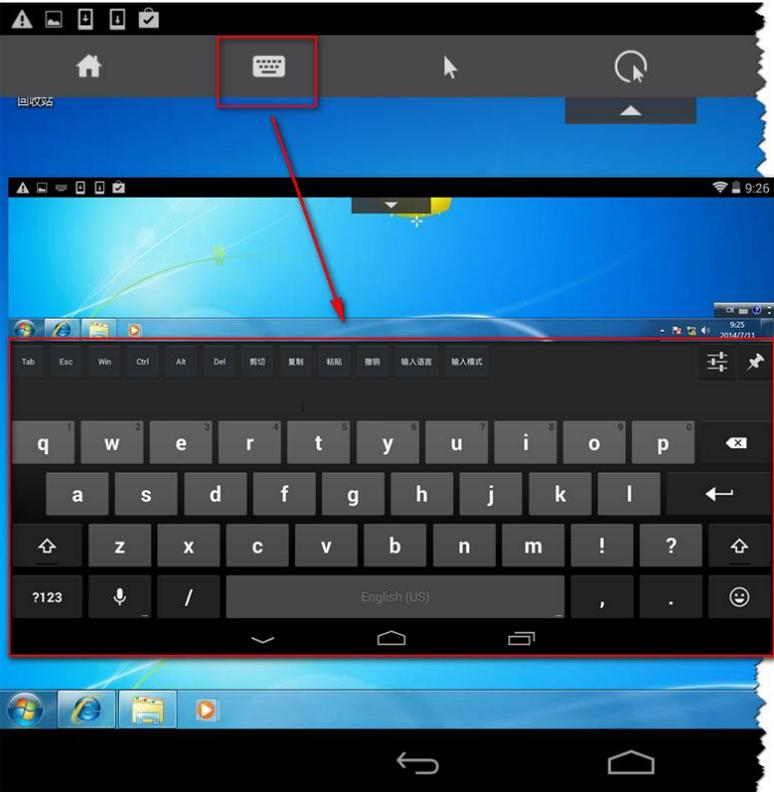
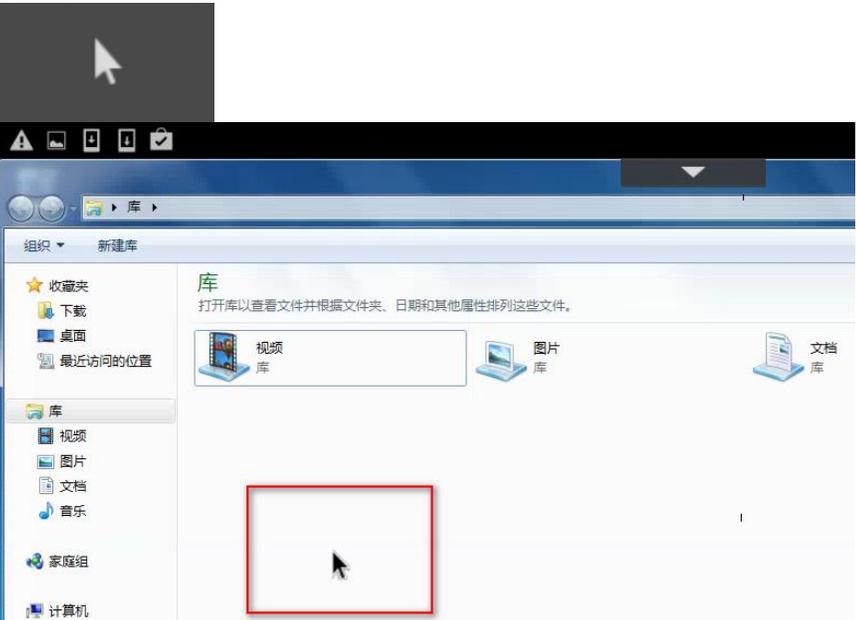
步骤	操作
7.	<p>点击左上角 Win 图标，可以看到“开始”菜单</p> 
8.	<p>打开几个应用程序，体验与桌面基本一致</p> 

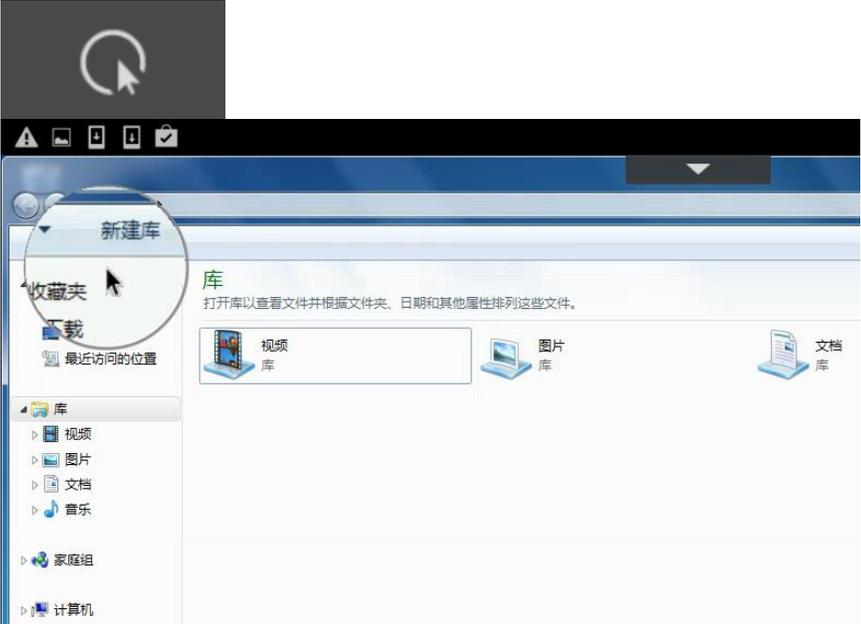
步骤	操作
9.	<p>也可以点击右上角的“原生桌面图标”，回到 Win7 原生桌面</p> 

## 5.4 桌面体验手势及快捷键介绍

Citrix 为平板类设备，在虚拟桌面场景使用中提供了手势操作。

步骤	操作
1.	<p>点击下拉箭头会显示快捷菜单</p> 
2.	<p>显示快捷菜单 第一个图标可以断开连接并回到应用/桌面列表</p> 

步骤	操作
<p>3.</p>	<p>点击第二个键盘图标可以显示本地键盘</p>  <p>The screenshot shows a Citrix workspace interface. At the top, there is a navigation bar with several icons. The second icon from the left, which represents a keyboard, is highlighted with a red square. A red arrow points from this icon down to a full QWERTY keyboard that is displayed on the desktop. The desktop background is a blue abstract image. Below the keyboard, the Windows taskbar is visible with several application icons.</p>
<p>4.</p>	<p>第三个图标，可以打开鼠标</p>  <p>The screenshot shows a Citrix workspace interface. At the top, there is a navigation bar with several icons. The third icon from the left, which represents a mouse, is highlighted with a red square. Below the navigation bar, a Windows Explorer window is open, displaying a '库' (Library) view. The window shows a sidebar with navigation options like '收藏夹' (Favorites) and '库' (Libraries). The main area shows three library icons: '视频库' (Video Library), '图片库' (Image Library), and '文档库' (Document Library). A mouse cursor is positioned over the '视频库' icon, which is also highlighted with a red square.</p>

步骤	操作
5.	<p>第四个图标，可以打开带有放大镜功能的鼠标</p> 
6.	<p>第五个图标可以打开滚动支持，在浏览网页时比较实用</p> 
7.	<p>第六个图标可以打开手势介绍及说明</p> 

## 5.5 Android Receiver 高级设置

步骤	操作
1.	<p>Android Receiver 的最后一个选项卡是“设置”</p>  <p>The screenshot shows the Citrix Receiver app interface. At the top, there's a header with the Citrix Receiver logo and a user profile icon. Below the header is a navigation bar with four tabs: '应用程序' (Applications), '收藏夹' (Favorites), '精选' (Curated), and '设置' (Settings). The '设置' tab is currently selected and highlighted with a blue underline. Below the navigation bar, there is a list of settings categories: '显示' (Display), '键盘' (Keyboard), '音频' (Audio), '高级' (Advanced), 'ShareFile', and '关于' (About).</p>
2.	<p>在显示设置中，可以为会话设置分辨率</p>  <p>The screenshot shows the 'Citrix Receiver 显示' (Citrix Receiver Display) settings screen. At the top, there's a status bar with system icons and the time 10:47. Below the status bar, the title 'Citrix Receiver 显示' is followed by the sub-header '会话分辨率' (Session Resolution) and '适应屏幕' (Adapt to screen). A modal dialog box is open, titled '会话分辨率' (Session Resolution). It contains a list of options with radio buttons: '与服务器一致' (Match server), '适应屏幕' (Adapt to screen), '放大 1.5 倍' (Zoom 1.5x), '放大 2 倍' (Zoom 2x), '放大 2.5 倍' (Zoom 2.5x), '优化以实现高分辨率' (Optimize for high resolution), and '针对 Windows 应用商店应用进行优化' (Optimize for Windows Store apps). The '适应屏幕' option is selected. At the bottom of the dialog, there is a '取消' (Cancel) button.</p>

步骤	操作
3.	<p>在高级设置中，可以设置虚拟桌面与 Android 设备存储的访问互通性</p>  <p>The screenshot shows the Citrix Receiver Advanced Settings screen. The '使用设备存储' (Use Device Storage) option is highlighted in blue. Below it, a modal dialog is open with the title '使用设备存储' (Use Device Storage). The dialog contains three radio button options: '无权限' (No permissions), '读取权限' (Read permissions), and '完全权限' (Full permissions). The '无权限' option is selected. There is also a '取消' (Cancel) button at the bottom of the dialog.</p>

至此，Android Receiver 客户端安装配置及访问验证完成。

## 产品版本

产品	版本
XenDesktop	7.5
XenApp	7.5
XenServer	6.2 SP1
NetScaler	10.1