INTEROFFICE MEMORANDUM

To: Management

From: Team

Subject: Login Banner Improvements

Date:

Management,

Thank you for expressing your concern regarding our computer systems' login banners.

We have taken steps to correct this shortcoming by modifying login banners on our devices so that when someone logs in to access a device they are informed of our company's acceptable use and security monitoring actions. Due to the Computer Fraud and Abuse Act, when someone unauthorized accesses one of our devices, they can now be prosecuted for the unauthorized access because they are warned about accessing devices without authorization.

Previously login banners on our systems looked like this:

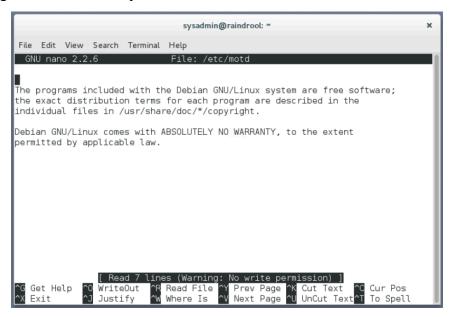


Figure 1. Ubuntu initial login banner

Figure 2. Splunk with no initial login banner

Our previous login banners provided information about our systems including the operating system in use. Our new login banners reference the company Acceptable Use Policy and emphasize the ability to prosecute misuse or unauthorized access.

New Login Banner:

```
****** WARNING *****
```

This system is the property of a private organization and is for authorized use only. By accessing this system, users agree to comply with the company's Acceptable Use Policy.

All activities on this system may be monitored, recorded, and disclosed to authorized personnel for security purposes. There is no expectation of privacy while using this system.

Unauthorized or improper use may result in disciplinary action or legal penalties. By continuing to use this system you indicate your awareness of and consent to these terms and conditions of use.

Figure 3. New Login Banner

The new login banner has successfully been installed on our machines and is evident in the images below:

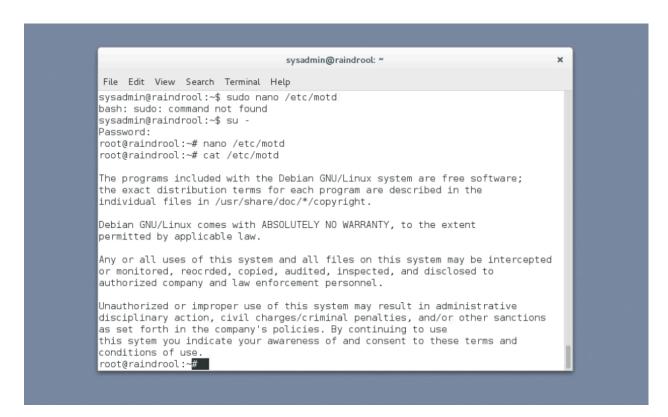


Figure 4. Debian Login Banner

```
Iroot@dareduck htmll# cat /etc/motd
Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to authorized company and law enforcement personnel, as well as authorized individuals of other organization. By using this system, the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of authorized company personnel.

Unauthorized or improper use of this system may result in administrative disciplinary action, civil charges/criminal penalties, and/or other sactions as set forth in the company's policies. By continuing to use this system you indicate your awareness of and consent to these terms ad conditions of use.
```

Figure 5. CentOS 7 Login Banner

```
CentOS release 6.4 (Final)
Kernel 2.6.32-642.15.1.el6.x86_64 on an x86_64

splunk login: root
Password:
Login incorrect

login: CCDCUser1
Password:
This computer system is the property of a private organization. It is for authorized use only. By us ing this system, all users acknowledge notic of, and agree to comply with, the company's Acceptable
Use of Information Technology Resources Policy. Users have no personal privacy rights in any materia
Is they place, view, access, or transmit on this system. The company complies with state and federal
law regarding certain legally protected confidential information, but makes no representation that
any uses of this system will be private or confidential.

Any or all uses of this system and all files on this system may be intercepted, monitored, recorded,
copied, audited, inspected, and disclosed to authorized company and law enforcement personnel, as we
ell as authorized individuals of other organizations. By using this system, the user consents to suc
h interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discreti
on of authorized company personnel.

Unauthorized or improper use of this system may result in administrative disciplinary action, civil
charges/criminal penalties, and/or other sanctions as set forth in the company's policies. By contin
using to use this system you indicate your awareness of and consent to these terms and conditions of
use.

[CCDCUser1@splunk ~15]
```

Figure 6. Splunk Login Banner Updated

```
GNU nano 2.2.6
                                  File: /etc/update-motd.d/00-header
!!/bin/sh
     00-header - create the header of the MOTD
     Copyright (C) 2009-2010 Canonical Ltd.
     Authors: Dustin Kirkland <a href="mailto:kirkland@canonical.com">kirkland@canonical.com</a>
     This program is free software; you can redistribute it and/or modify
     it under the terms of the GNU General Public License as published by
     the Free Software Foundation; either version 2 of the License, or
     (at your option) any later version.
     This program is distributed in the hope that it will be useful,
     but WITHOUT ANY WARRANTY; without even the implied warranty of
     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
     GNU General Public License for more details.
     You should have received a copy of the GNU General Public License along
     with this program; if not, write to the Free Software Foundation, Inc.,
     51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
  -r /etc/lsb-release ] && . /etc/lsb-release
f [ -z "$DISTRIB_DESCRIPTION" ] && [ -x /usr/bin/lsb_release ]; then
        # Fall back to using the very slow lsb_release utility DISTRIB_DESCRIPTION=\$(1sb\_release -s -d)
printf "Any or all uses of this system and all files on this system may be intercepted, monitored, s
printf "Unauthorized or improper use of this system may result in administrative disciplinary actios
```

Figure 7. Ubuntu Server Login Banner

Windows Devices Login Banner

For Windows devices' login banners, the message title was set to "Warning" and the message text to "This computer should be used for authorized purposes only. Unauthorized use of this computer will lead to disciplinary action or prosecution." Whenever a user logs on to a Windows system, this interactive message is displayed. This was **applied to all devices on the Windows Domain through a Group Policy**. The user can then log in by clicking on the OK button.

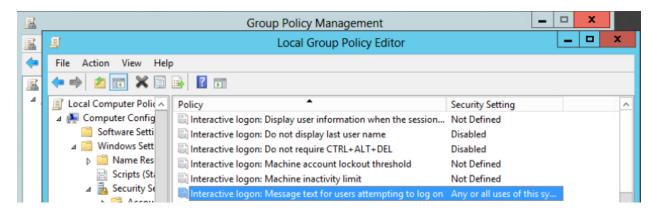


Figure 9. Windows Login Banner set for Domain

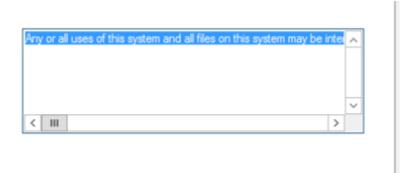


Figure 10. Windows Login Message

Please let us know if there are any additional actions the security team can perform to improve the login banners.

Thank you,

Team