TSURUGI-LINUX 26.03



UNA DISTRO LINUX ITALIANA PER LA CYBER SECURITY - TRA DIGITAL FORENSIC & OSINT CON AUSILIO DI COMPUTER VISION

BY Antonio aka "Visi@n" BROI

RINGRAZIAMENTI

https://www.thefreecircle.org

WHOAMI ?



IL TEAM TSURUGI-LINUX

https://tsurugi-linux.org/about_us.php

About us

$ whoami

The Tsurugi Linux team is composed by a bunch of Backtrack and Deft Linux veterans united by the idea of developing a new DFIR Operating System that could

- **Giovanni 'sug4r' Rattaro**: Project founder - Tsurugi Linux and Tsurugi Acquire core developer - Tsurugi Linux team leader
- **Marco 'blackmoon' Giorgi**: Project founder - Tsurugi Linux and Tsurugi Acquire core developer
- **Davide 'rebus' Gabrini**: Bento portable DFIR toolkit creator
- **Francesco 'dfirfpi' Picasso**: New staff 2019! Tsurugi Linux and Tsurugi Acquire developer
- **Massimiliano 'YattaMax' Dal Cero**: New staff 2019! Tsurugi Linux and Tsurugi Acquire developer
- **Antonio 'Visi@n' Broi**: New staff 2019! Digital Forensics, OSINT and Computer Vision specialist for Tsurugi Linux
- **Costanza Matteuzzi**: New staff 2020! Cyberlaw and cybercrime expert - Criminal defense lawyer
- **Mattia 'MattiaEp' Epifani**: New staff 2023! Tsurugi Linux and Tsurugi Acquire core developer

EVENTI INTERNAZIONALI NELLA QUALE è STATA PRESENTATA

Past and future conferences

When we decided to start this amazing project we were aware of the expected hard work and here below our public conferences as speakers show all our motivation and commitment for the community:

- Tsurugi Linux project launch at **AvTokyo** conference (3 November 2018 / JAPAN - Tokyo)
- **BLACK HAT USA** (8 August 2019 / USA - Las Vegas)
- European **SANS DFIR Summit** (30 September 2019 / CZECH REPUBLIC - Prague)
- **Brucon** (11 October 2019 / BELGIUM - Ghent)
- **HackInBo** (9 November 2019 / ITALY - Bologna)
- **BLACK HAT EUROPE** (5 December 2019 / UK - London)
- **CoRI&IN** (28 January 2020 / FRANCE - Lille)
- **HackInBo Safe Edition** (30 May 2020 / SAFE EDITION - Online)
- **BLACK HAT EUROPE** (9 December 2020 / Virtual Edition - Online)
- **FIRST Cyber Threat Intelligence Summit** (19 April 2021 / Virtual Edition - Online)
- **HackInBo Safe Edition** (29 May 2021 / SAFE EDITION - Online)
- **BLACK HAT EUROPE** (9 December 2020 / Virtual Edition - Online)
- **FIRST Cyber Threat Intelligence Summit** (19 April 2021 / Virtual Edition - Online)
- **HackInBo Safe Edition** (29 May 2021 / SAFE EDITION - Online)
- **BLACK HAT USA** (4 August 2021 / USA - Las Vegas)
- **@HACK (BLACK HAT MEA)** (28 November 2021 / SAUDI ARABIA - Riyadh)
- **BLACK HAT ASIA** (12 May 2022 / SINGAPORE)
- **BLACK HAT EUROPE** (7 December 2022 / UK - London)
- **BLACK HAT EUROPE** (6 December 2023 / UK - London)
- **BARBHACK 2024** (31 August 2024 / FRANCE / Toulon)
- **DFIR212** (7 December 2024 / MOROCCO - Rabat)
- **BLACK HAT EUROPE** (11 December 2024 / UK - London)
- **DEF CON** (3 November 2025 / BAHRAIN)
- **BLACK HAT EUROPE** (10 December 2025 / UK - London)
- Which will be the next conference? We hope to see you soon! **STAY SAFE**

Your DFIR Linux distribution

Tsurugi Linux is a DFIR open source project that is and will be totally free, independent, without involving any commercial brand

Our main goal is share knowledge and "give back to the community"

A Tsurugi (剣) is a legendary Japanese double-bladed sword used by ancient Japan monks

TSURUGI Linux [LAB]

64 bit Linux version to perform digital forensics analysis

Read More

TSURUGI Acquire

Lighter 32 bit Linux version with only tools for live disk acquisitions

Read More

BENTO

Portable digital forensics toolkit to perform live investigations

Read More

DOWNLOADING.....

https://tsurugi-linux.org/downloads.php

Downloads

Disclaimer (please read carefully)

- Tsurugi Linux [LAB] and Tsurugi Acquire are totally free provided "AS IS" under **GNU General Public License** without warranty of any kind
- All tools included are free and some are not open source. The property is of their own developers and you can find all the respective licenses with the copyright information inside "/usr/share/doc" and "/opt" directories
- If we included your tool, feel free to inform us if we forgot any detail about your license and we will update it quickly in the new releases
- Some tools included in our projects could be considered illegal in some Countries, please verify that you are allowed to own it
- Our project goal is for educational purposes and to help law enforcement/professionals in their daily tasks. The core team IS NOT responsible for any illegal utilization of the project/tools
- All the downloadable contents that are not explicitly available in this download page have to be considered EOL (End Of Life) and no more supported
- We suggest to check the hashes and to download our **PGP PUBLIC KEY [ID 0x116AD57C]** to verify the signature

If you agree this disclaimer you can start downloading from the mirrors here below and enjoy our open source project!

- **DOWNLOAD MIRROR 1**
- **DOWNLOAD MIRROR 2**
- **DOWNLOAD MIRROR 3**
- **DOWNLOAD MIRROR 4**
- **DOWNLOAD MIRROR 5**

DOWNLOADING….

https://tsurugi-linux.org/mirrors/mirror1.php

Mirror ftp.nluug.nl - Tsurugi Linux project

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01. Tsurugi Linux [Lab]

tsurugi_linux_26.03.iso	04-Apr-2026 08:23	10.9G
tsurugi_linux_26.03.ova	04-Apr-2026 08:23	16.7G

02. Tsurugi Linux Acquire

tsurugi_acquire_2021.1.iso	09-Apr-2021 14:03	1.1G

03. Bento toolkit

bento_2025.8.7z	25-Aug-2025 17:46	614M

DOWNLOADING…..

https://tsurugi-linux.org/mirrors/mirror2.php

Mirror OVH - Tsurugi Linux project

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01. Tsurugi Linux [Lab]

tsurugi_linux_26.03.iso	04-Apr-2026 08:23	10.9G
tsurugi_linux_26.03.ova	04-Apr-2026 08:23	16.7G

02. Tsurugi Linux Acquire

tsurugi_acquire_2021.1.iso	09-Apr-2021 14:03	1.1G

03. Bento toolkit

bento_2025.8.7z	25-Aug-2025 17:46	614M

DOWNLOADING.....

https://tsurugi-linux.org/mirrors/mirror3.php

Mirror GANDI - Tsurugi Linux project

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01. Tsurugi Linux [Lab]

tsurugi_linux_26.03.iso	04-Apr-2026 08:23	10.9G
tsurugi_linux_26.03.ova	04-Apr-2026 08:23	16.7G

02. Tsurugi Linux Acquire

tsurugi_acquire_2021.1.iso	09-Apr-2021 14:03	1.1G

03. Bento toolkit

bento_2025.8.7z	25-Aug-2025 17:46	614M

DOWNLOADING…..

https://tsurugi-linux.org/mirrors/mirror4.php

Mirror GARR - Tsurugi Linux project

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01. Tsurugi Linux [Lab]

tsurugi_linux_26.03.iso	04-Apr-2026 08:23	10.9G
tsurugi_linux_26.03.ova	04-Apr-2026 08:23	16.7G

02. Tsurugi Linux Acquire

tsurugi_acquire_2021.1.iso	09-Apr-2021 14:03	1.1G

03. Bento toolkit

bento_2025.8.7z	25-Aug-2025 17:46	614M

DOWNLOADING.....

https://tsurugi-linux.org/mirrors/mirror5.php

Mirror Archive.org - Tsurugi Linux project

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01. Tsurugi Linux [Lab]

tsurugi_linux_26.03.iso	04-Apr-2026 08:23	10.9G
tsurugi_linux_26.03_archive.torrent	04-Apr-2026 08:23	56.8K
tsurugi_linux_26.03.ova	04-Apr-2026 08:23	16.7G
tsurugi_linux_26.03_vm_archive.torrent	04-Apr-2026 08:23	85.5K

02. Tsurugi Linux Acquire

tsurugi_acquire_2021.1.iso	09-Apr-2021 14:03	1.1G
tsurugi_acquire_2021.1_archive.torrent	09-Apr-2021 14:03	25.9K

03. Bento toolkit

bento_2025.8.7z	25-Aug-2025 17:46	614M
bento_2025.8.7z_archive.torrent	25-Aug-2025 17:46	25.6K

SIGNATURE VERIFIED ?

https://tsurugi-linux.org/tsurugi_linux_pub_key.asc

-----BEGIN PGP PUBLIC KEY BLOCK-----

mDMEaKy6uxYJKwYBBAHaRw8BAQdAFuL3CJUaKszILUgJ4BFUgqyN7hAoKFT+aoH0

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dWdpLWxpbnV4Lm9yZz6ImQQTFgoAQRYhBGimAwj817yg+B51AW3yDOEkKJcRBQJo

rLq7AhsDBQkJZgGABQsJCAcCAiICBhUKCQgLAgQWAgMBAh4HAheAAAoJEG3yDOEk

KJcRqeUA/341UIxn2FsewYNqzw88/EOmpdaKdDqI9DoiAyV5S1XXAPoDAOIflU1G

G8lPpMG+FDZk/PnOrt7JlFTuy5JnYdarDrg4BGisursSCisGAQQBl1UBBQEBB0Dr

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ALTB7imeHLZBVBgneedn3mYLac6iPjCIANwr03yUfsP5AP4oWTM8pDsh800+dtfV

SxxyJSeJFJAL7hx3ydqE1kUGDg==

=Jsby

-----END PGP PUBLIC KEY BLOCK-----

VERIFICA PGP-GPG

- gpg --import tsurugi_linux_pub_key.asc
- gpg —list-keys
- gpg --fingerprint

File di testo contenente lista HASH distro

https://tsurugi-linux.org/signed_hashes.sha512

```
-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA512



12c4ef8d1f2034ad201bd3fe34c4c54ba14a934a2fac3533e64886c581681a13a825e7c24e3b4dfb347928fd1ec44e980d3301f99e788f747fe1747b2ed1a2e4  tsurugi_linux_25.11.iso

73e4a9f444e65bae4fb405f4f81fa098016e2e752c90cc01451701785073670b2d2856cc08c8e1bfad74ef6df38f652dfecbc3d1a8afb5a240c7e836dbad7ab6  Tsurugi_Linux_25.11.ova

bd5488e9e75bbcbc6560d166031e84c70bf19c1b9db6f872df99212fef110296c3e7735e39bdee533aaaa92a64e1096fb674b1d45dd4c88cde280442737d77fe  tsurugi_acquire_2021.1.iso

e726cc4c5fa5105e0364cc21858ab0534050148de038b56dac0ea42c7a2a48d59b3dc49004d56fdb2ec625c3effac4c1d3b70244facc6ba094ffa998d27f556a  bento_2025.8.7z



-----BEGIN PGP SIGNATURE-----



iHUEARYKAB0WIQRopgMI/Ne8oPgedQFt8gzhJCiXEQUCaSMf0AAKCRBt8gzhJCiX

EUl3AP9pbnxPWvp3TuIINyREVkZCk7EEIKMFB0rjtBAL8JWtvgD9Hbnt9WKXqMw5

JFvgRjfTD7BWAEGGeIdBuajxfP27dAk=

=9b4q

-----END PGP SIGNATURE-----
```

Verifica file signed

gpg --verify signed_hashes.sha512.txt



gpg: Signature made ...

gpg: using RSA key XXXXX

gpg: Good signature from "Tsurugi Linux …"

Verifica file signed

gpg --verify signed_hashes.sha512.txt

BAD signature



VERIFICA HASH DISTRO WINDOWS POWERSHELL


gpg --verify signed_hashes.sha512.txt


certutil -hashfile Tsurugi.iso SHA512

VERIFICA HASH DISTRO
APPLE MAC

- gpg --verify signed_hashes.sha512.txt

- shasum -a 512 -c signed_hashes.sha512.txt

VERIFICA HASH DISTRO LINUX

- gpg --import tsurugi_linux_pub_key.asc

- gpg --verify signed_hashes.sha512.txt

- sha512sum -c signed_hashes.sha512.txt

TSURUGI-LINUX ACQUIRE



Tsurugi Acquire

Live - 32 bit

Tsurugi Acquire is a lightweight and streamlined version of Tsurugi Linux [LAB], aimed at providing the basic tools needed to boot a PC and acquire mass storage devices.

A small subset of tools is installed to make the whole ISO smaller and its main purpose is to easily reside in RAM, be fast at boot and support as many architectures as possible.

This Linux distribution it's based on Debian 10 with a patched kernel 5.11.6 that is at 32 bits to grant more compatibility and easily run on oldest devices.

A screen resolution detection system is present, to automatically adapt the size of icons and menus in Retina and 4K screens.

What's more, it's possible to put the whole image to fit in RAM, letting the user remove the pendrive/DVDROM after boot and use the system at high speed, sparing one USB port or the optical reader/writer.

TSURUGI-LINUX ACQUIRE

🟦 **Tsurugi Acquire**

Live – 32 bit

Tsurugi Acquire è una versione leggera e semplificata di **Tsurugi Linux [LAB]**, progettata per fornire gli strumenti essenziali necessari all'avvio di un PC e all'acquisizione dei dispositivi di archiviazione di massa.

È installato un sottoinsieme ridotto di strumenti per rendere l'intera ISO più piccola; lo scopo principale è quello di essere caricata completamente in RAM, garantire un avvio rapido e supportare il maggior numero possibile di architetture hardware.

Questa distribuzione Linux è basata su **Debian 10** con un **kernel 5.11.6 modificato**, a **32 bit**, per assicurare una maggiore compatibilità e poter essere eseguita anche su dispositivi più datati.

È presente un sistema di rilevamento automatico della risoluzione dello schermo che adatta dinamicamente la dimensione delle icone e dei menu per display **Retina e 4K**.

Inoltre, è possibile caricare l'intera immagine in RAM, consentendo all'utente di rimuovere la chiavetta USB o il DVD-ROM dopo l'avvio e utilizzare il sistema ad alta velocità, liberando una porta USB o il lettore/masterizzatore ottico.

BENTO

https://tsurugi-linux.org/documentation_bento_toolkit.php

- **Davide 'rebus' Gabrini**: Bento portable DFIR toolkit creator

Bento

Portable toolkit

Bento is a portable toolkit designed for live forensics and incident response activities.

Featuring over 300 portable applications, Bento suite offers the best support in order to carry out digital forensics investigations and incident response activities on Windows, Linux and macOS operating systems for acquisition, identification, survey and documentation purposes.

In order to facilitate the work of first responders and supervisors, Bento includes automated tools useful to standardize and simplify digital evidence findings on under investigation systems.

Documentation BENTO toolkit

Introduction

Bento is a **portable DFIR toolkit** designed for **live forensics** and **incident response** investigations.

Made to support CSI during search and seizure activities Bento DFIR toolkit provides to first responders a complete and easy way to face the most common activities like identification, information gathering, acquisition, seizure and preservation of digital evidences.

Bento isn't intended for forensic analysis other than the strictly necessary investigations in live mode and for triaging.
Beware, some investigation tools could be detected as harmful by some AntiVirus systems.

Technical information

Bento works mainly on Windows operating systems but there are a lot of tools also for Linux and macOS.

First start

Due to several licence limitations, we can't redistribute within Bento some free softwares so end users may eventually integrate it following simple step by step procedure available inside Bento archive.

Updates & new tools

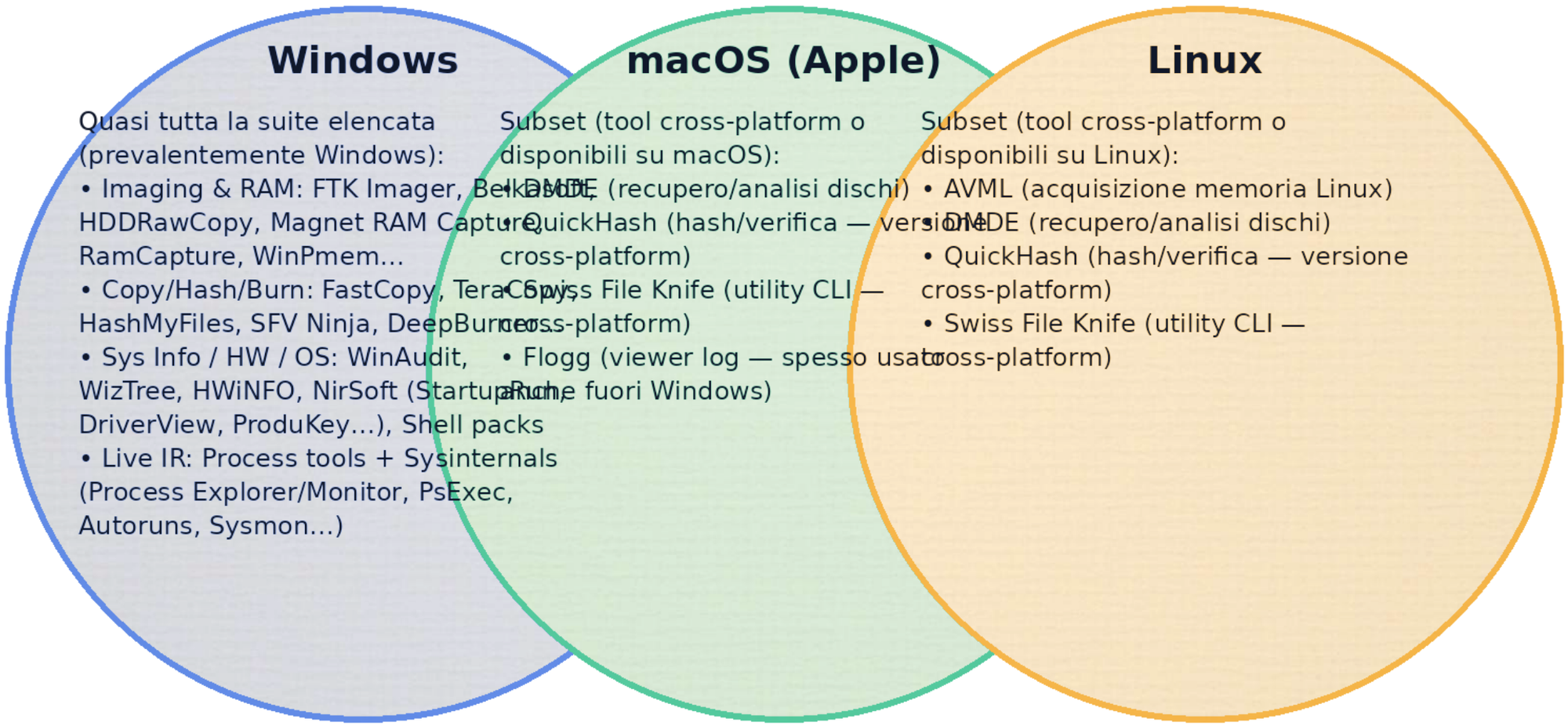
To update and add new tools is really easy because all has been still configured within SyMenu so, on a Microsoft Windows machine, it's possible to select the “Get new apps” option and make your own choices using the intuitive graphical interface.

BENTO

https://tsurugi-linux.org/documentation_bento_toolkit_tools_listing.php#

Tools listing [2025.8] — mappa per sistema operativo

Nota: per ragioni di copyright alcuni tool non sono presenti di default, ma si possono importare dal menu Bento.



BENTO

https://tsurugi-linux.org/documentation_bento_toolkit_tools_listing.php#

Tools listing [2025.8] — Lista completa (4 colonne)

Copyright note: importabili dal menu Bento

SYSINTERNALS

- AcessChk
- AccessChk64
- AccessEnum
- AdExplorer
- AdInsight
- AdInsight
- AdRestore
- Autologon
- Autoruns
- Autoruns64
- AutorunsC
- AutorunsC64
- BfIfoBgInfo64
- CasheSet
- ClockRes
- CockRes64
- Contig
- Contig4
- Coreinfo
- Ctrl2cap
- DebugView
- Desktops
- Disk Usage (DU)
- Disk Usage (DU) 64
- Disk Usage (DU.md)
- Disk Usage (DU.md) 64
- Disk2vhd
- DiskView
- EFSDump
- FindLinks
- FindLinks64
- Handle
- Handle64
- Hex2dec
- Hex2dec64
- Junction
- Junction64
- LDMDump
- ListDLLs
- LiveKd
- LiveKd64
- LoadOrder
- LoadOrder64
- LoadOrderC
- LoadOrderC64
- LogonSessions
- LogonSessions64
- MoveFile

LIVE IR - PROCESSES

- CrowdInspect
- AdvancedRun
- AdvancedRun x64
- AllThreadView
- AllThreadView x64
- CurrProcess
- DeviceIOView
- DeviceIOView x64
- FileAccessErrorView
- FileAccessErrorView x64
- FileActivityWatch
- FileActivityWatch x64
- FolderChangesView
- GUIPropView
- GUIPropView x64
- HeapMemView
- HeapMemView x64
- InjectedDLL
- LoadedDllsView
- LoadedDllsView x64
- Process Hacker x86
- Process Hacker x64
- ProcessActivityView x64
- ProcessTCPSummary
- ProcessTCPSummary x64
- ProcessThreadsView
- SysExporter
- SysExporter x64
- TaskSchedulerView
- TaskSchedulerView x64
- WinLister
- WinLister x64

COPY

- FastCopy (x64)
- FastCopy (x86)
- QuickHash GUI (x64)
- QuickHash GUI (x86)
- TeraCopy

SEARCH

- Search my Files
- SearchMyFiles
- SearchMyFiles x64
- UltraSearch x86
- UltraSearch x64

SYS INFO

- WinAudit

OTHER TOOLS

- EDD Encrypted Disk Detector
- Crowdresponse
- CyLR (x86)
- CyLR (x64)
- DFIRTriage
- FastIR Collector (x86)
- FastIR Collector (x64)
- FieldSearch
- Gkape
- IREC
- RtCA (x86)
- RtCA (x64)
- tr3secure
- tr3secure-user
- Windows Live Response Collection
- Inside Clipboard
- PC On/OFF Time
- TurnedOnTimesView

IMAGING

- FTK Imager Lite
- Belkasoft Acquistion Tool
- DMDE (x64)
- DMDE (x86)
- HDDRawCopy
- Magnet RAM Capture
- RamCapture x64
- RamCapture x86
- Winpmem
- ftkimager CLI x86
- AVML

SHELL

- Windows 10 (x86)
- Windows 10 (x64)
- Windows 7 (x86)
- Windows 7 (x64)
- Windows Vista (x86)
- Windows XP (x86)
- Windows 2003 (x86)
- Windows 2000 (x86)

HASHING

- HashMyFiles
- HashMyFiles x64
- SFV Ninja
- PS Hash

BURN

- DeepBurner

OPERATING SYSTEM

- StartupRun
- WhatInStartup
- WhatInStartup x64
- DriveLetterView
- DriveLetterView x64
- DriverView
- DriverView x64
- InstalledDriversList
- InstalledDriversList x64
- InstalledPackagesView
- InstalledPackagesView64
- JRView
- ProduKey
- ProduKey x64
- SecuritySoftView

UTILITIES

- 7-zip (x86)
- CamStudio Portable
- Don't Sleep (x86)
- Free Virtual Keyboard
- Flogg
- GreenShot
- MouseJiggle
- HxD Hex Editor (x86)
- HxD Hex Editor (x64)
- Notepad++
- Swiss File Knife
- TimeZonesView

HARDWARE

- HWiNFO (x64)
- HWiNFO (x86)
- BatteryInfoView
- DevManView x86
- DevManView x64
- DiskCountersView
- FirmwareTablesView
- FirmwareTablesView x64
- SSD-Z Portable

ACHOIR

- A-AChoir (x64) BUILDER
- AChoir (x86)
- AChoir (x64)
- A-AChoir (x86)
- A-AChoir (x64)

TSURUGI-LINUX LAB

LAST RELEASES INFORMATION

Signed hashes: signed_hashes.sha512

Tsurugi Linux [64-bit]

Filename: tsurugi_linux_26.03.iso

Release date: 04/04/2026

Filename: tsurugi_linux_26.03.ova

Release date: 04/04/2026

Tsurugi Acquire [32-bit]

Filename: tsurugi_acquire_2021.1.iso

Release date: 09/04/2021

Bento DFIR portable toolkit

Filename: bento_2025.8.7z

Release date: 25/08/2025 (automatic-updates)





Your DFIR Linux distribution

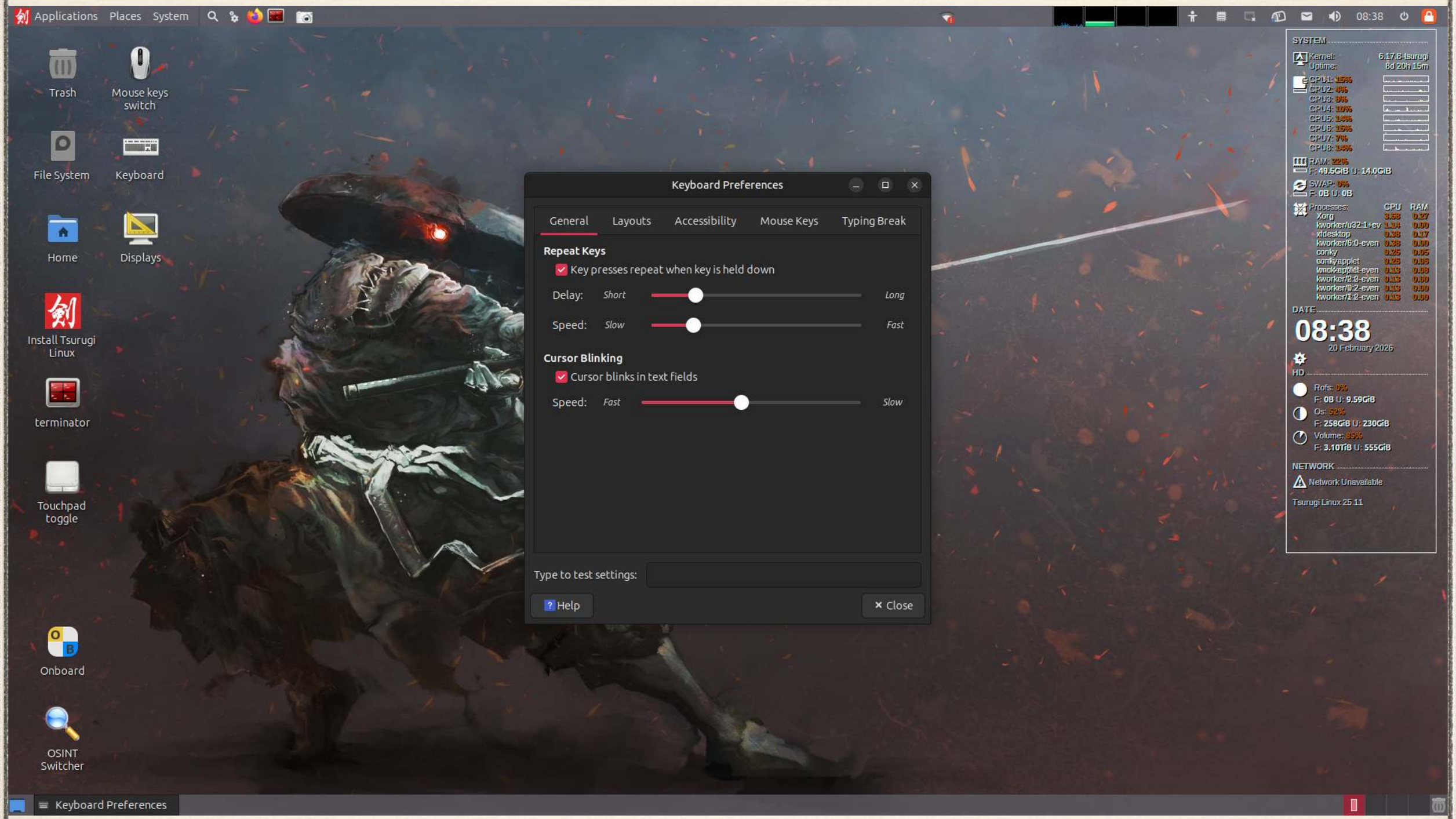
Tsurugi Linux is a DFIR open source project that is and will be totally free, independent, without involving any commercial brand

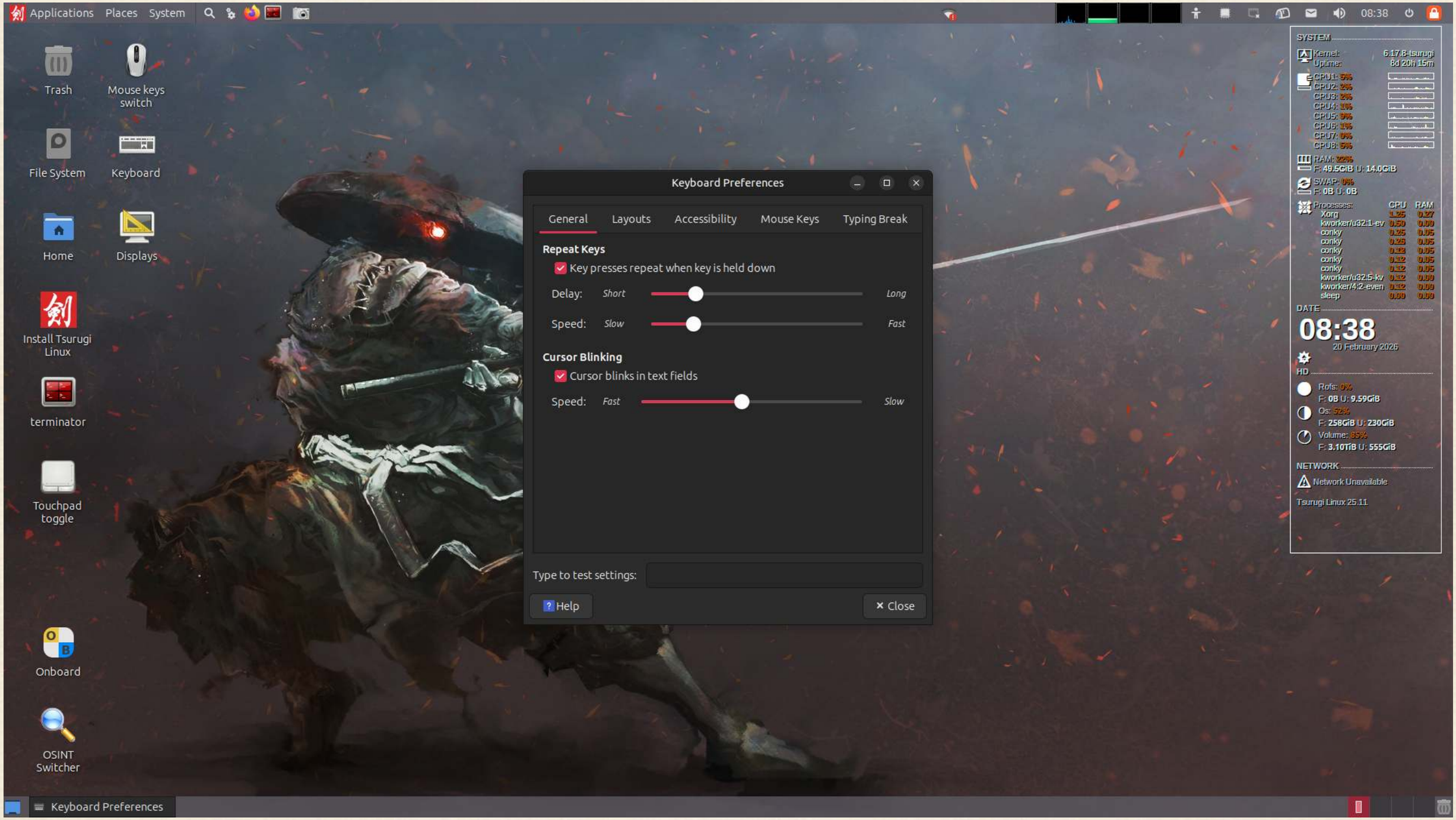
Our main goal is share knowledge and "give back to the community"

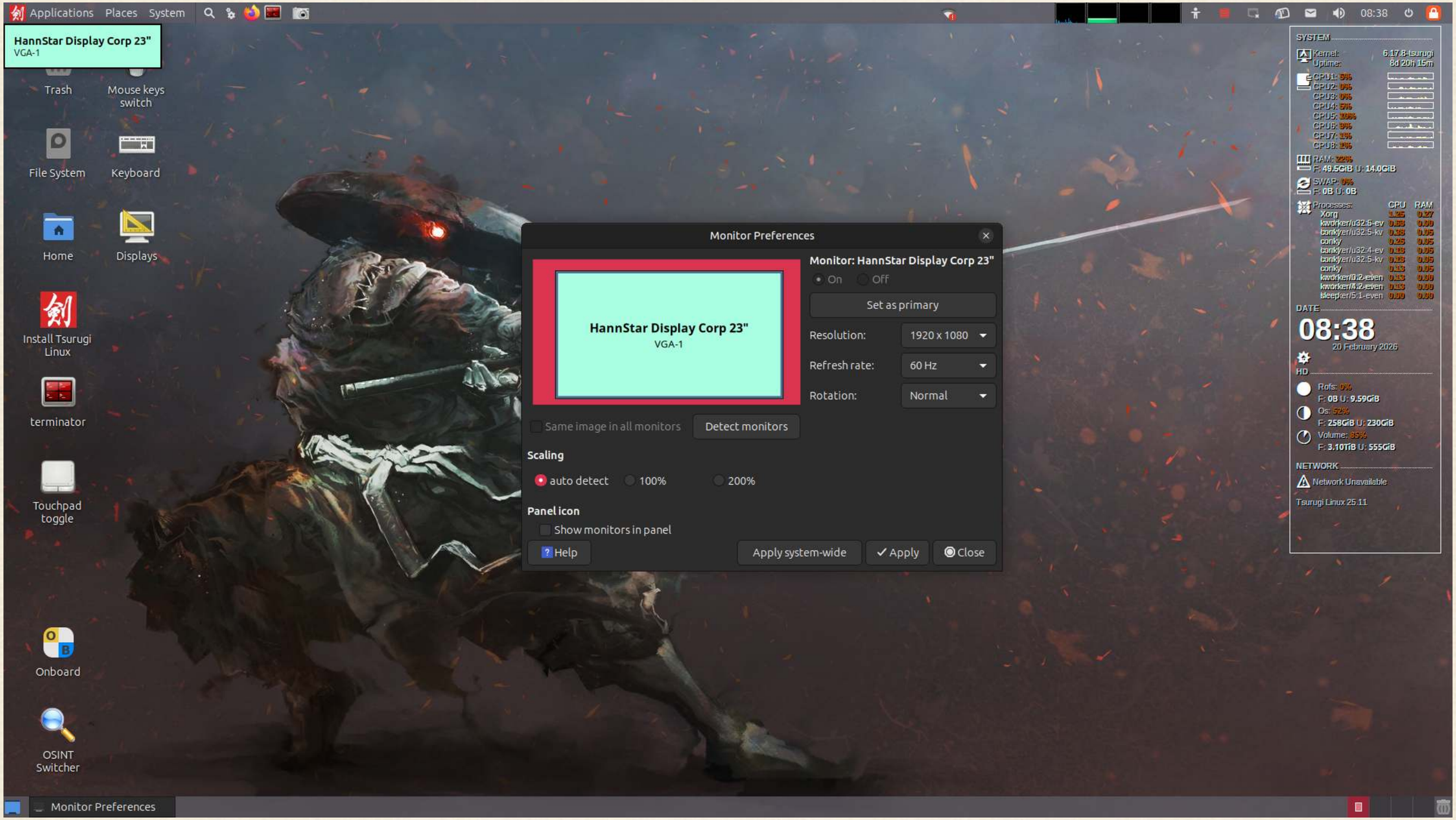
A Tsurugi (剣) is a legendary Japanese double-bladed sword used by ancient Japan monks

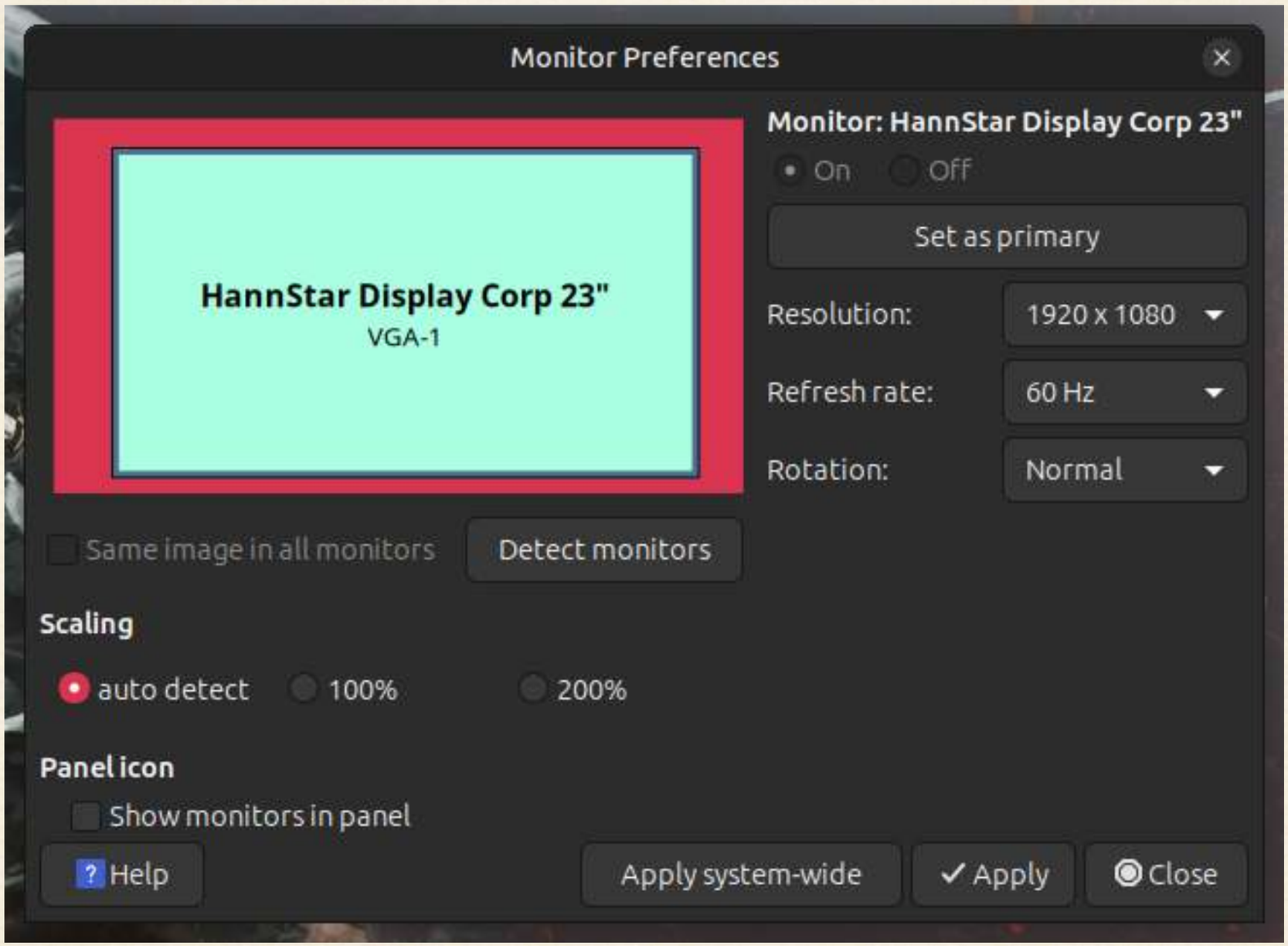

TSURUGI
Linux
"TSURUGI Linux - the sharpest weapon in your DFIR arsenal"

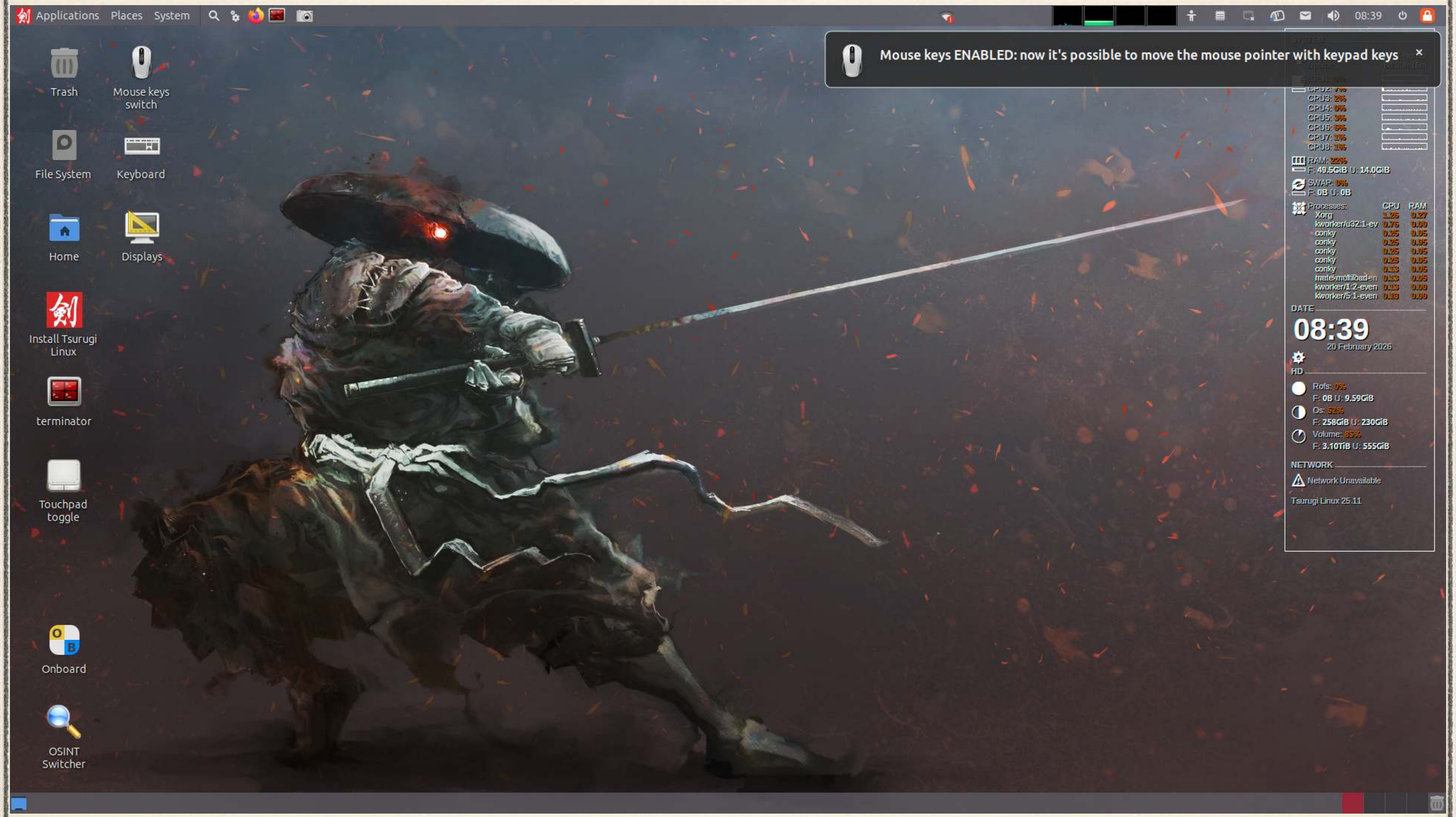
ICONE DESKTOP

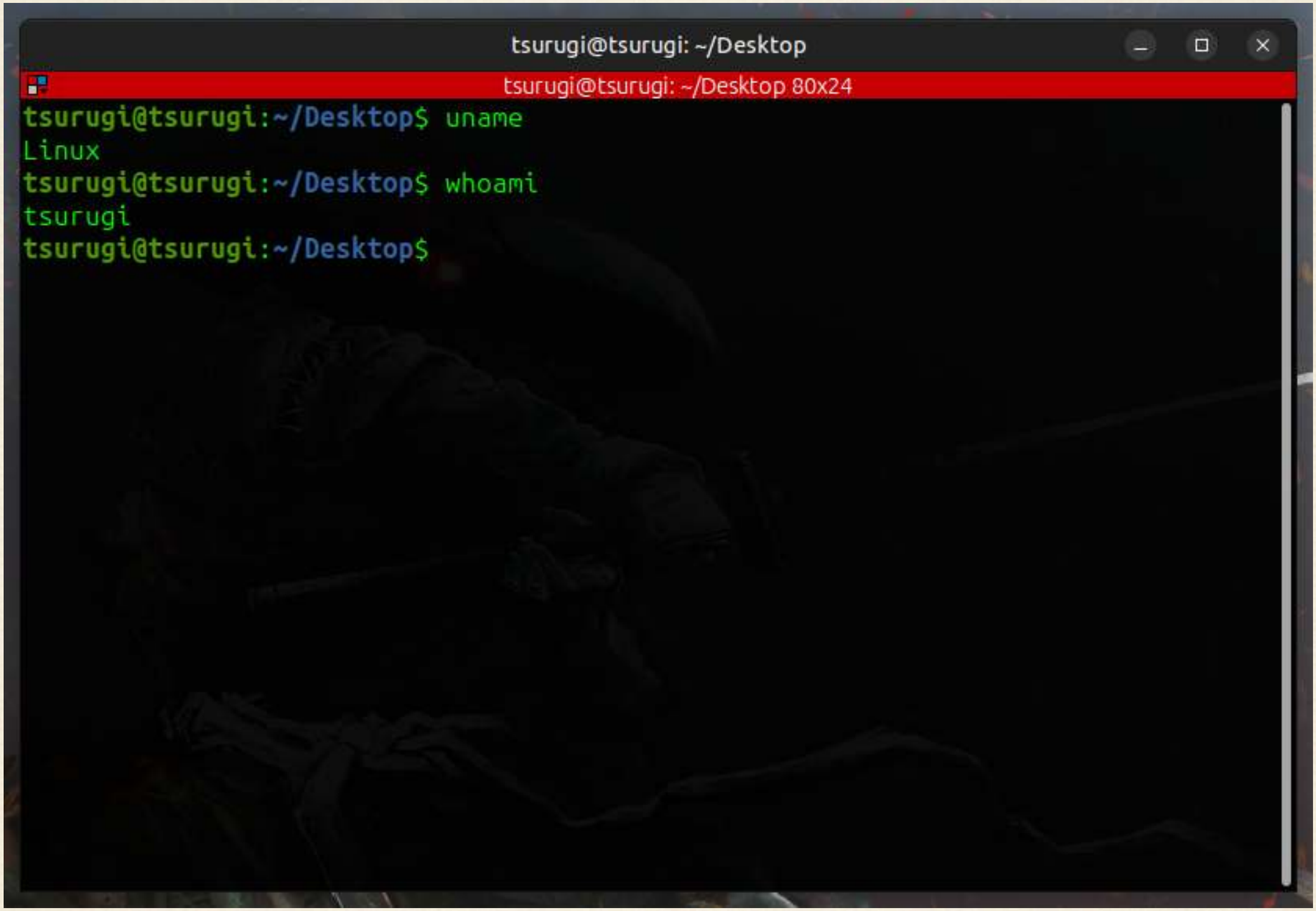

Applications
Places
System
08:38
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
Keyboard Preferences
General
Layouts
Accessibility
Mouse Keys
Typing Break
Repeat Keys
Key presses repeat when key is held down
Delay: Short Long
Speed: Slow Fast
Cursor Blinking
Cursor blinks in text fields
Speed: Fast Slow
Type to test settings:
Help
Close
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 15m
CPU1: 15%
CPU2: 4%
CPU3: 8%
CPU4: 10%
CPU5: 14%
CPU6: 15%
CPU7: 7%
CPU8: 14%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 3.68 0.27
kworker/u32:14-ev 1.14 0.00
xfdesktop 0.38 0.17
kworker/6:0-even 0.38 0.00
conky 0.25 0.05
conkyapplet 0.25 0.03
kworker/1:1-even 0.13 0.00
kworker/0:0-even 0.13 0.00
kworker/0:2-even 0.13 0.00
kworker/1:2-even 0.13 0.00
DATE
08:38
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Keyboard Preferences

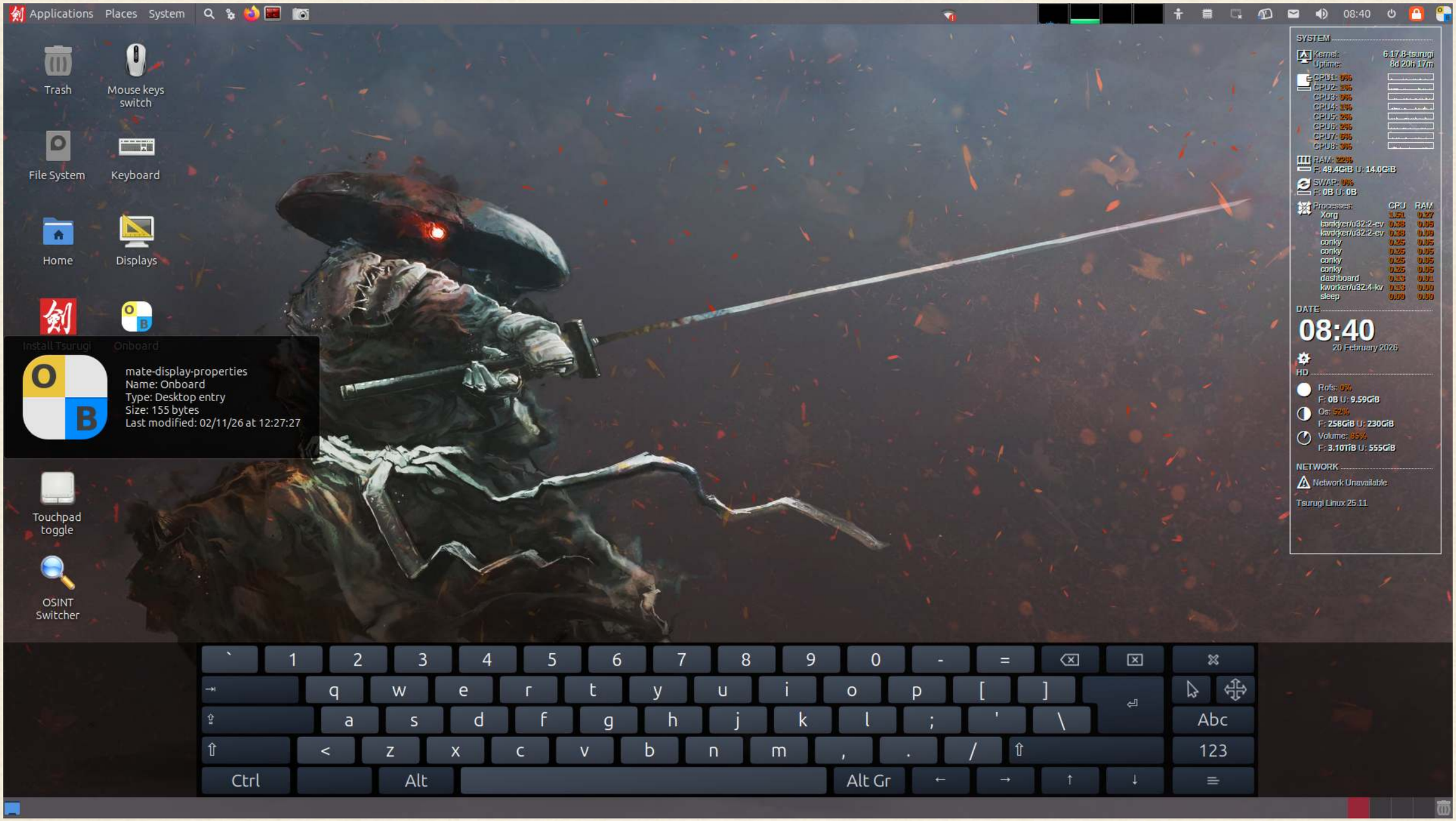

Applications
Places
System
08:38
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
Keyboard Preferences
General
Layouts
Accessibility
Mouse Keys
Typing Break
Repeat Keys
Key presses repeat when key is held down
Delay: Short Long
Speed: Slow Fast
Cursor Blinking
Cursor blinks in text fields
Speed: Fast Slow
Type to test settings:
Help
Close
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 15m
CPU1: 5%
CPU2: 2%
CPU3: 2%
CPU4: 1%
CPU5: 5%
CPU6: 1%
CPU7: 0%
CPU8: 5%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.25 0.27
kworker/u32:1-ev 0.50 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.12 0.05
conky 0.12 0.05
conky 0.12 0.05
kworker/u32:5-kv 0.12 0.00
kworker/4:2-even 0.12 0.00
sleep 0.00 0.00
DATE
08:38
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Keyboard Preferences


Applications
Places
System
08:38
HannStar Display Corp 23"
VGA-1
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
Monitor Preferences
HannStar Display Corp 23"
VGA-1
Monitor: HannStar Display Corp 23"
On
Off
Set as primary
Resolution:
1920 x 1080
Refresh rate:
60 Hz
Rotation:
Normal
Same image in all monitors
Detect monitors
Scaling
auto detect
100%
200%
Panel icon
Show monitors in panel
Help
Apply system-wide
Apply
Close
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 15m
RAM: 32%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg
DATE
08:38
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 35%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Monitor Preferences

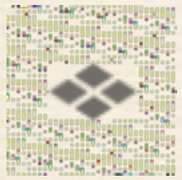

Monitor Preferences
HannStar Display Corp 23"
VGA-1
Monitor: HannStar Display Corp 23"
On
Off
Set as primary
Resolution:
1920 x 1080
Refresh rate:
60 Hz
Rotation:
Normal
Same image in all monitors
Detect monitors
Scaling
auto detect
100%
200%
Panel icon
Show monitors in panel
Help
Apply system-wide
Apply
Close


Applications
Places
System
08:39
Mouse keys ENABLED: now it's possible to move the mouse pointer with keypad keys
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
CPU3: 2%
CPU4: 0%
CPU5: 3%
CPU6: 6%
CPU7: 1%
CPU8: 1%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg 1.26 0.27
kworker/u32:1-ev 0.76 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
mate-multiload-en 0.13 0.05
kworker/1:2-even 0.13 0.00
kworker/5:1-even 0.13 0.00
DATE
08:39
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11


tsurugi@tsurugi: ~/Desktop
tsurugi@tsurugi: ~/Desktop 80x24
tsurugi@tsurugi:~/Desktop$ uname
Linux
tsurugi@tsurugi:~/Desktop$ whoami
tsurugi
tsurugi@tsurugi:~/Desktop$


Applications
Places
System
08:40
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi
Onboard
mate-display-properties
Name: Onboard
Type: Desktop entry
Size: 155 bytes
Last modified: 02/11/26 at 12:27:27
Touchpad toggle
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 17m
CPU1: 0%
CPU2: 1%
CPU3: 0%
CPU4: 1%
CPU5: 2%
CPU6: 2%
CPU7: 0%
CPU8: 3%
RAM: 32%
F: 49.4GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.51 0.27
kworker/u32:2-ev 0.38 0.00
kworker/u32:2-ev 0.38 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
dashboard 0.13 0.01
kworker/u32:4-kv 0.13 0.00
sleep 0.00 0.00
DATE
08:40
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
` 1 2 3 4 5 6 7 8 9 0 - =
q w e r t y u i o p [ ]
a s d f g h j k l ; ' \
< z x c v b n m , . /
Abc
123
Ctrl
Alt
Alt Gr

TSURUGI-LINUX LAB

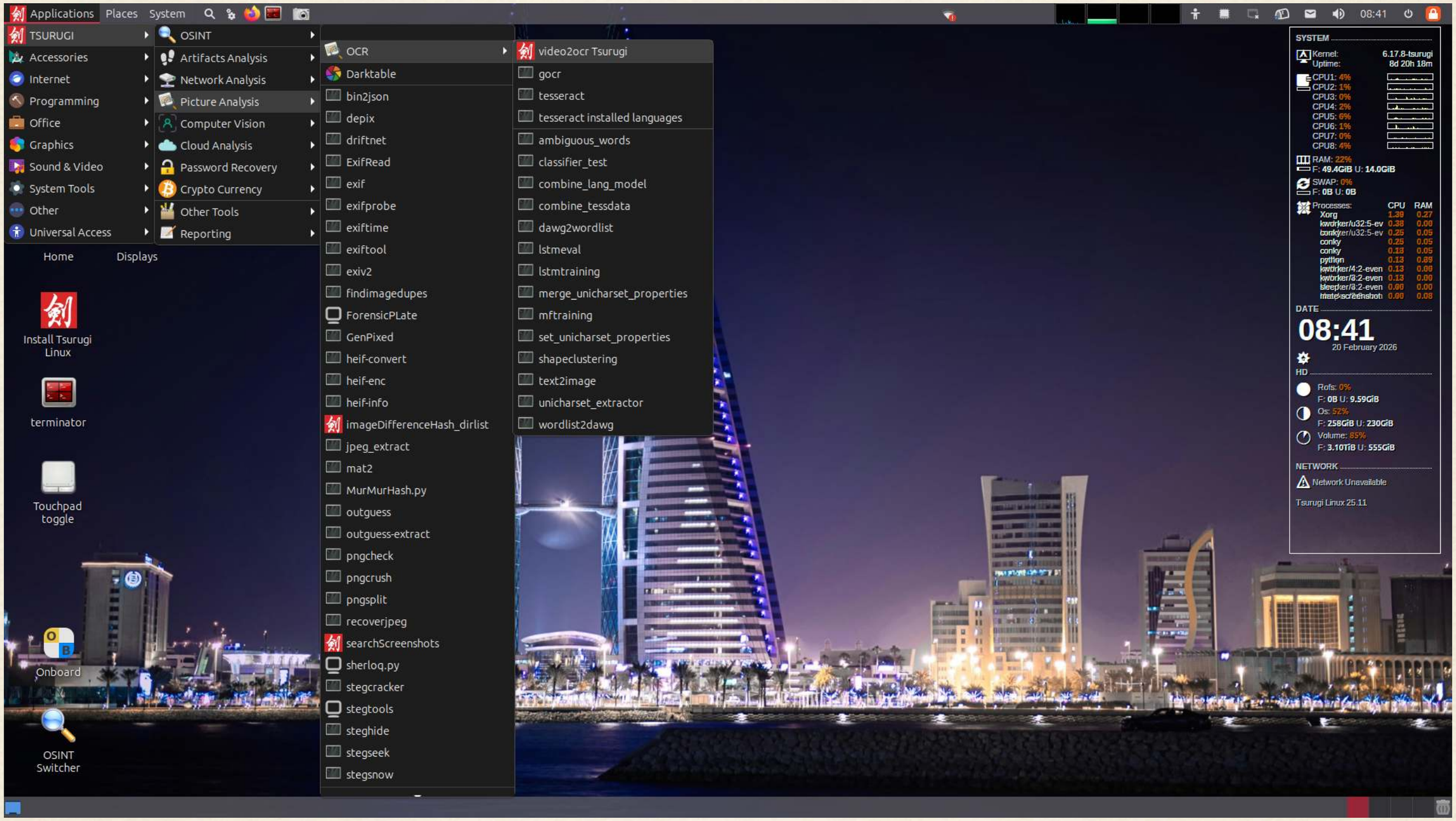


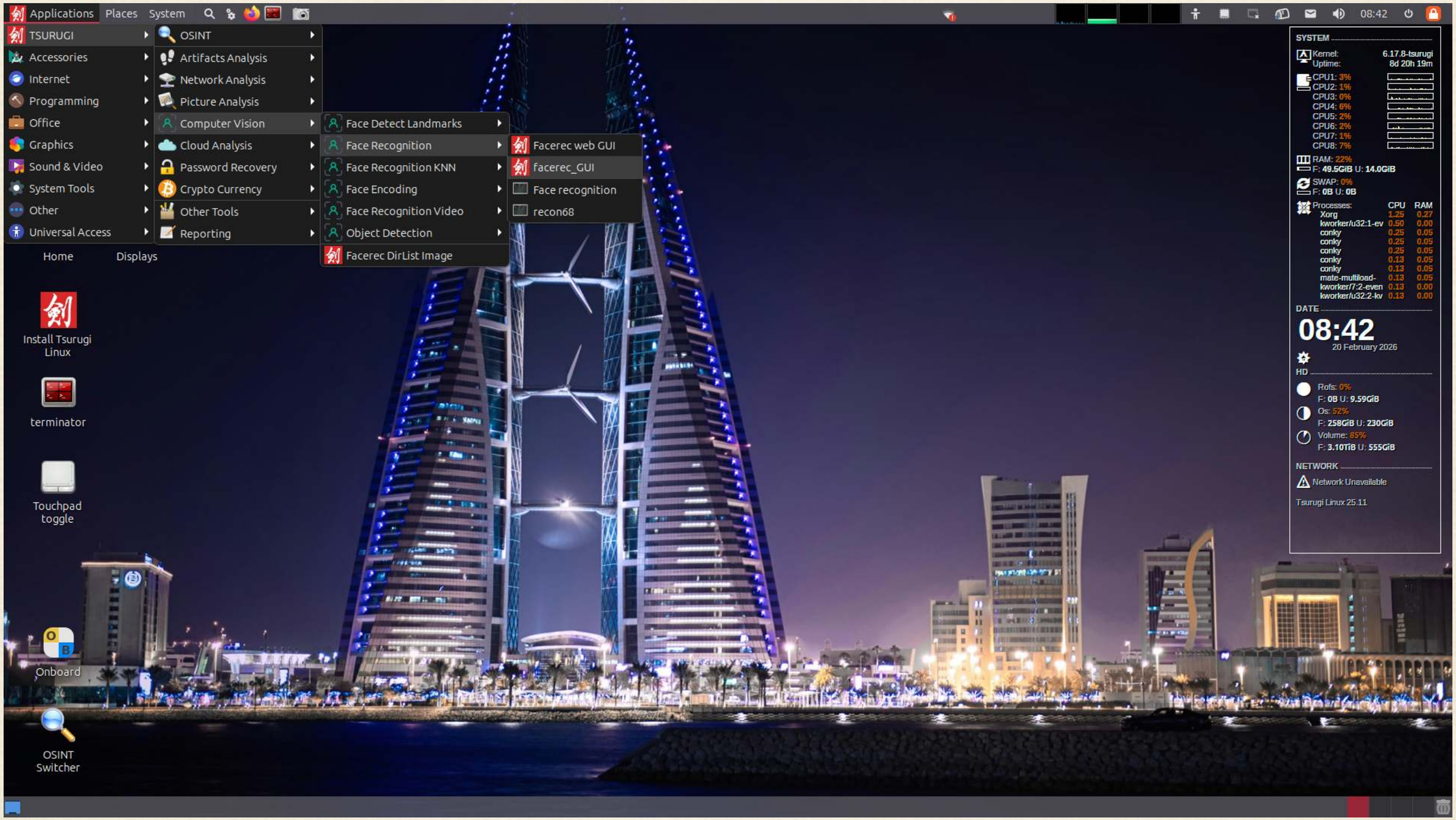
OSINT SWITCHER



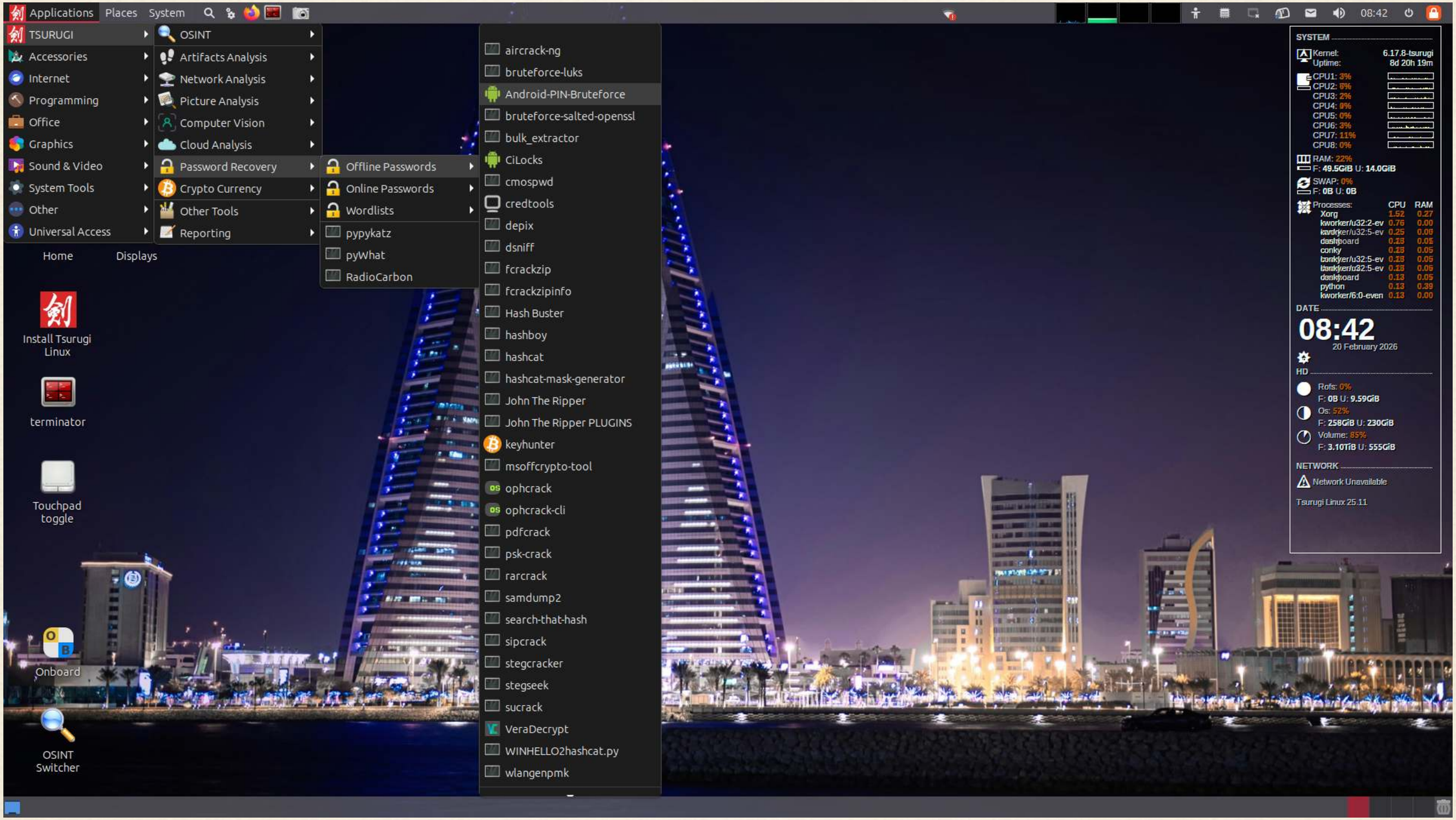

Applications
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08:41
TSURUGI
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Cloud Analysis
Password Recovery
Crypto Currency
Other Tools
Reporting
OSINT Switcher
OSINT browser
Tor browser
Emails
Network
Phone Numbers
Social
Tor
Web
Other
spiderfoot CLI
spiderfoot help
spiderfoot START
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 18m
CPU1: 7%
CPU2: 2%
CPU3: 1%
CPU4: 0%
CPU5: 5%
CPU6: 0%
CPU7: 1%
CPU8: 2%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.26 0.27
kworker/u32:1-ev 0.38 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
kworker/u33:0-tt 0.13 0.00
kworker/4:2-even 0.13 0.00
kworker/0:0-even 0.13 0.00
DATE
08:41
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

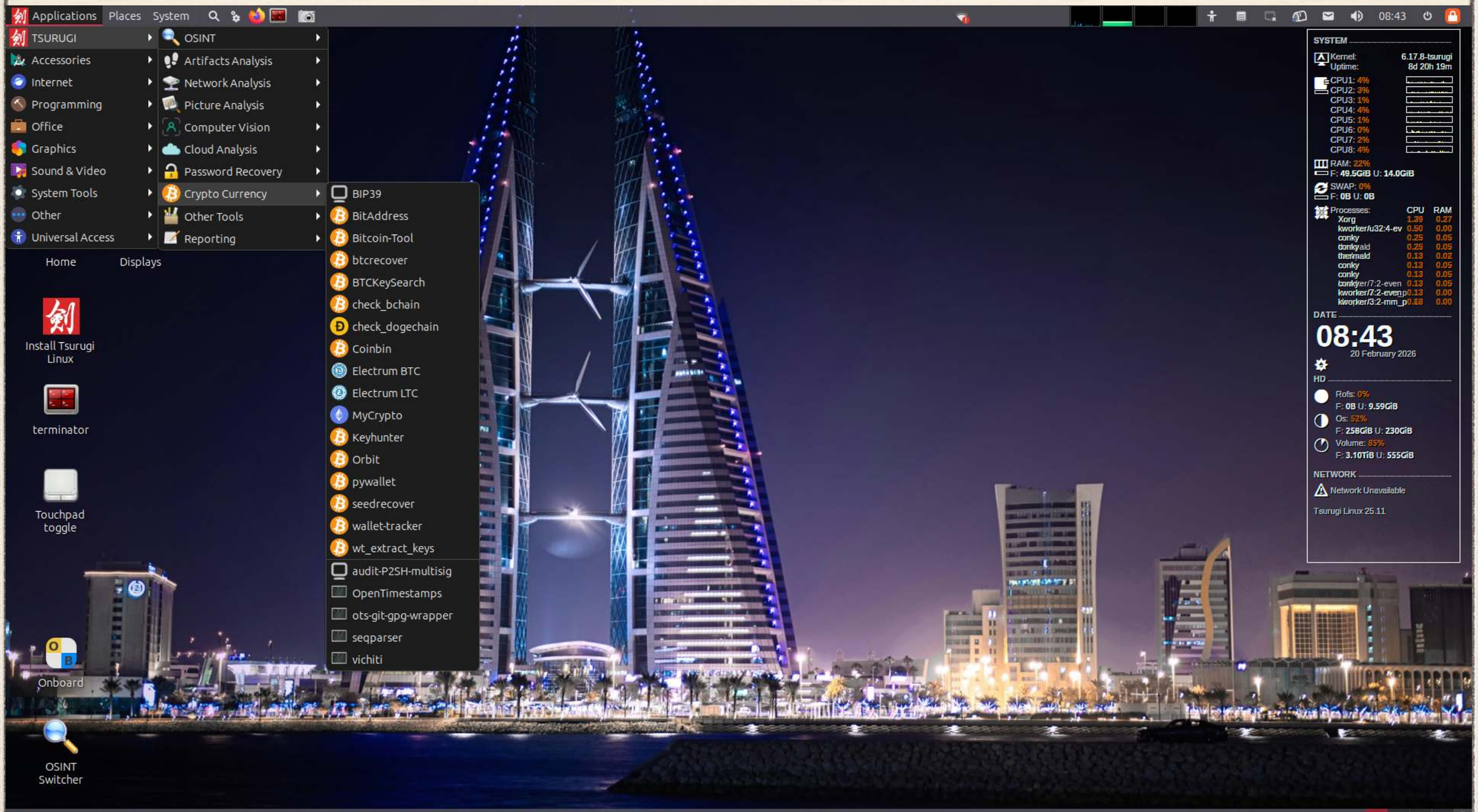

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Google Takeout
Jump List
Logs
Metadata
Office Documents
P2P
Prefetch
Registry
Trash
Velociraptor
Home
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terminator
Touchpad toggle
Onboard
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 18m
CPU1: 2%
CPU2: 4%
CPU3: 4%
CPU4: 1%
CPU5: 3%
CPU6: 0%
CPU7: 7%
CPU8: 0%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.25 0.27
kworker/u32:2-ev 0.50 0.00
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
mate-multiload- 0.13 0.05
kworker/6:0-even 0.13 0.00
kworker/2:1-even 0.13 0.00
DATE
08:41
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

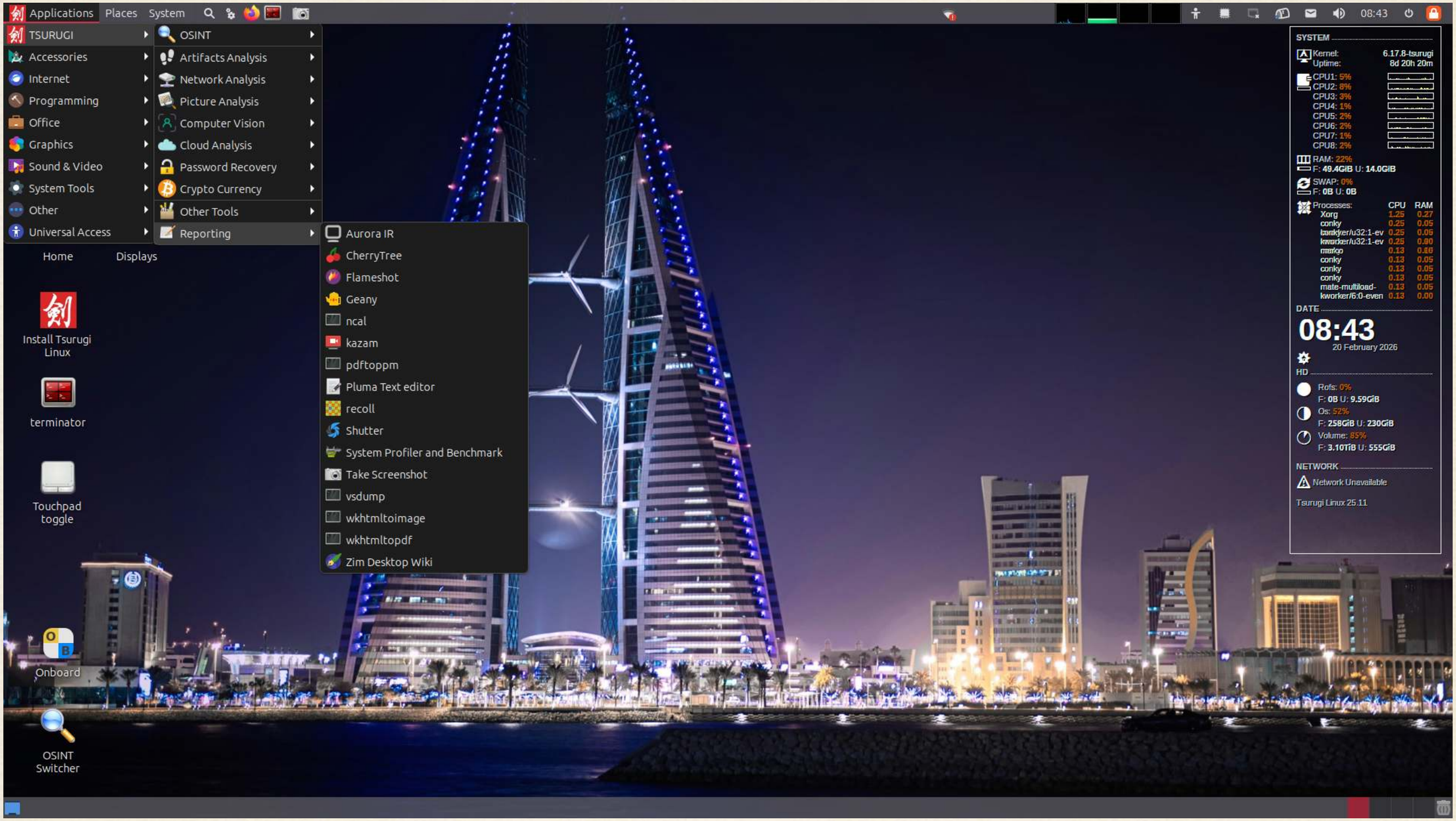

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OCR
Darktable
bin2json
depix
driftnet
ExifRead
exif
exifprobe
exiftime
exiftool
exiv2
findimagedupes
ForensicPLate
GenPixed
heif-convert
heif-enc
heif-info
imageDifferenceHash_dirlist
jpeg_extract
mat2
MurMurHash.py
outguess
outguess-extract
pngcheck
pngcrush
pngsplit
recoverjpeg
searchScreenshots
sherloq.py
stegcracker
stegtools
steghide
stegseek
stegsnow
video2ocr Tsurugi
gocr
tesseract
tesseract installed languages
ambiguous_words
classifier_test
combine_lang_model
combine_tessdata
dawg2wordlist
lstmeval
lstmtraining
merge_unicharset_properties
mftraining
set_unicharset_properties
shapeclustering
text2image
unicharset_extractor
wordlist2dawg
Home
Displays
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terminator
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OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 18m
CPU1: 4%
CPU2: 1%
CPU3: 0%
CPU4: 2%
CPU5: 6%
CPU6: 1%
CPU7: 0%
CPU8: 4%
RAM: 22%
F: 49.4GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.39 0.27
kworker/u32:5-ev 0.38 0.00
conky/u32:5-ev 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
python 0.13 0.89
kworker/4:2-even 0.13 0.00
kworker/3:2-even 0.13 0.00
sleeper/3:2-even 0.00 0.00
mate-screenshot 0.00 0.08
DATE
08:41
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11


Applications
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TSURUGI
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Face Detect Landmarks
Face Recognition
Face Recognition KNN
Face Encoding
Face Recognition Video
Object Detection
Facerec DirList Image
Facerec web GUI
facerec_GUI
Face recognition
recon68
Home
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Onboard
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SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 19m
CPU1: 3%
CPU2: 1%
CPU3: 0%
CPU4: 6%
CPU5: 2%
CPU6: 2%
CPU7: 1%
CPU8: 7%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.25 0.27
kworker/u32:1-ev 0.50 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
mate-multiload- 0.13 0.05
kworker/7:2-even 0.13 0.00
kworker/u32:2-kv 0.13 0.00
DATE
08:42
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

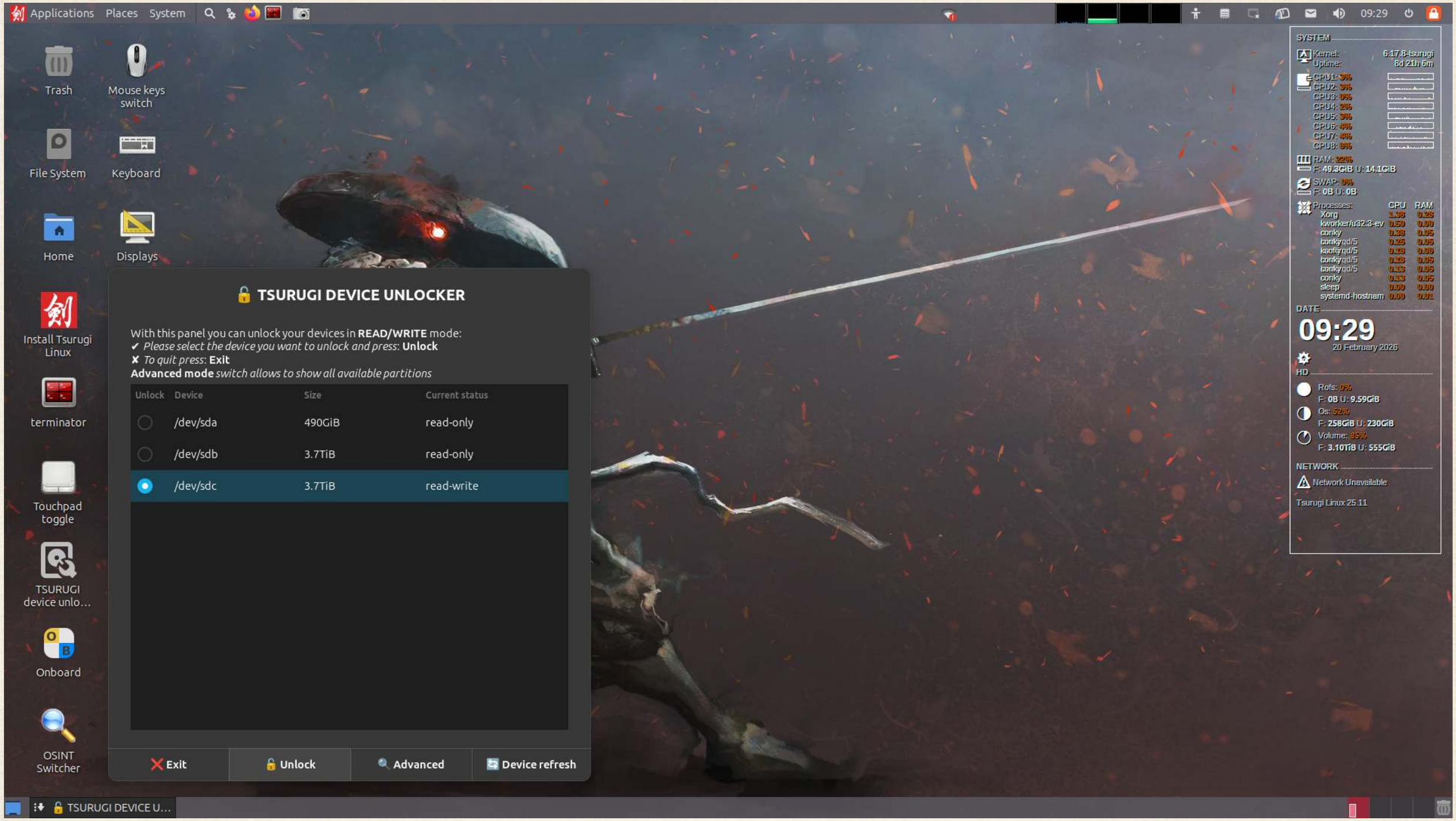

Applications
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aws_respond
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CURRYFINGER
ec2metadata
enumerate-iam
gcp-scanner
gcp-scanner-visualizer
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prowler
rclone
Rclone Browser
s3fs
ScoutSuite
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SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 19m
CPU1: 7%
CPU2: 3%
CPU3: 1%
CPU4: 2%
CPU5: 5%
CPU6: 0%
CPU7: 2%
CPU8: 2%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.38 0.27
kworker/u32:2-ev 0.63 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
kworker/u32:5-kv 0.13 0.00
sleep 0.00 0.00
mate-screenshot 0.00 0.08
DATE
08:42
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

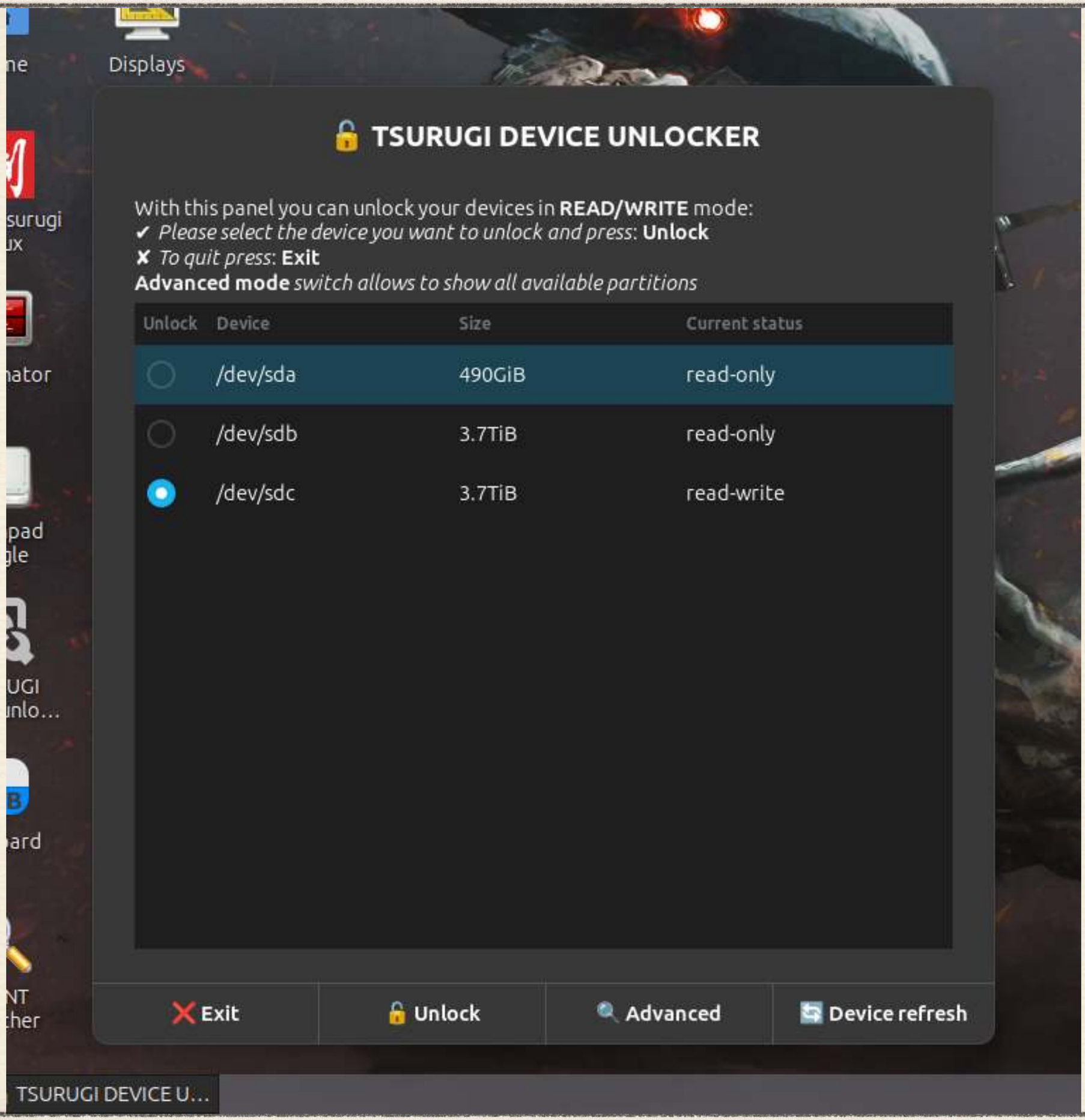

Applications
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Wordlists
pypykatz
pyWhat
RadioCarbon
aircrack-ng
bruteforce-luks
Android-PIN-Bruteforce
bruteforce-salted-openssl
bulk_extractor
CiLocks
cmospwd
credtools
depix
dsniff
fcrackzip
fcrackzipinfo
Hash Buster
hashboy
hashcat
hashcat-mask-generator
John The Ripper
John The Ripper PLUGINS
keyhunter
msoffcrypto-tool
ophcrack
ophcrack-cli
pdfcrack
psk-crack
rarcrack
samdump2
search-that-hash
sipcrack
stegcracker
stegseek
sucrack
VeraDecrypt
WINHELLO2hashcat.py
wlangenpmk
Home
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Onboard
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 19m
CPU1: 3%
CPU2: 6%
CPU3: 2%
CPU4: 0%
CPU5: 0%
CPU6: 3%
CPU7: 11%
CPU8: 0%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.52 0.27
kworker/u32:2-ev 0.76 0.00
kworker/u32:5-ev 0.25 0.00
dashboard 0.13 0.05
conky 0.13 0.05
kworker/u32:5-ev 0.13 0.05
kworker/u32:5-ev 0.13 0.05
dashboard 0.13 0.05
python 0.13 0.39
kworker/6:0-even 0.13 0.00
DATE
08:42
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

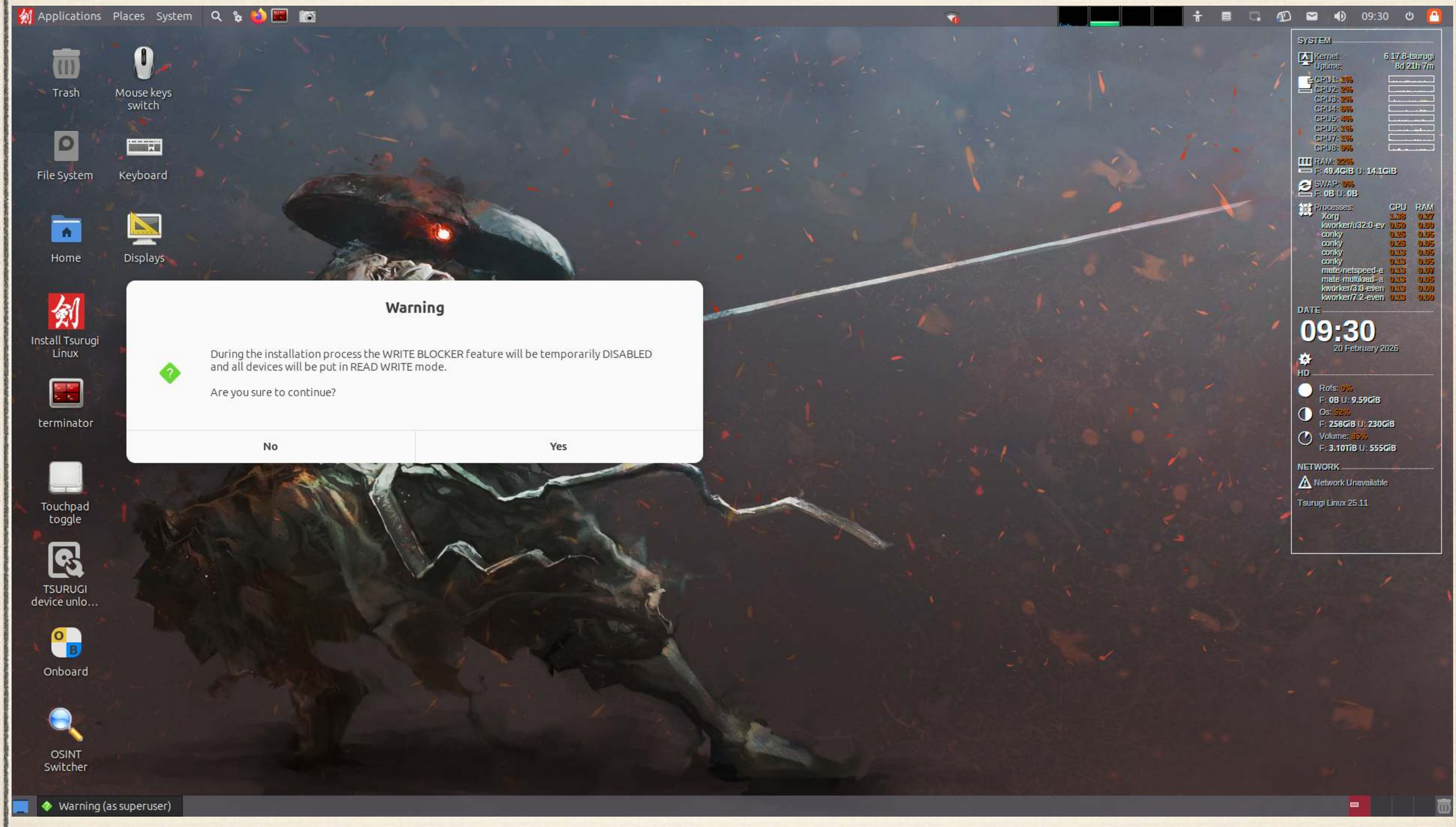

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BitAddress
Bitcoin-Tool
btcrecover
BTCKeySearch
check_bchain
check_dogechain
Coinbin
Electrum BTC
Electrum LTC
MyCrypto
Keyhunter
Orbit
pywallet
seedrecover
wallet-tracker
wt_extract_keys
audit-P2SH-multisig
OpenTimestamps
ots-git-gpg-wrapper
seqparser
vichiti
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
Onboard
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 19m
CPU1: 4%
CPU2: 3%
CPU3: 1%
CPU4: 4%
CPU5: 1%
CPU6: 0%
CPU7: 2%
CPU8: 4%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.39 0.27
kworker/u32:4-ev 0.50 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.02
conky 0.13 0.05
conky 0.13 0.05
kworker/7:2-even 0.13 0.05
kworker/7:2-even 0.13 0.00
kworker/3:2-mm_p 0.13 0.00
DATE
08:43
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11


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Flameshot
Geany
ncal
kazam
pdftoppm
Pluma Text editor
recoll
Shutter
System Profiler and Benchmark
Take Screenshot
vsdump
wkhtmltoimage
wkhtmltopdf
Zim Desktop Wiki
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Kernel: 6.17.8-tsurugi
Uptime: 8d 20h 20m
CPU1: 5%
CPU2: 8%
CPU3: 3%
CPU4: 1%
CPU5: 2%
CPU6: 2%
CPU7: 1%
CPU8: 2%
RAM: 22%
F: 49.4GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.25 0.27
conky 0.25 0.05
kworker/u32:1-ev 0.25 0.00
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
mate-multiload- 0.13 0.05
kworker/6:0-even 0.13 0.00
DATE
08:43
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

TSURUGI UNLOCKER


Applications
Places
System
09:29
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
TSURUGI device unlo…
Onboard
OSINT Switcher
TSURUGI DEVICE UNLOCKER
With this panel you can unlock your devices in READ/WRITE mode:
✓ Please select the device you want to unlock and press: Unlock
✘ To quit press: Exit
Advanced mode switch allows to show all available partitions
Unlock
Device
Size
Current status
/dev/sda
490GiB
read-only
/dev/sdb
3.7TiB
read-only
/dev/sdc
3.7TiB
read-write
Exit
Unlock
Advanced
Device refresh
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 21h 6m
CPU1: 3%
CPU2: 3%
CPU3: 6%
CPU4: 2%
CPU5: 3%
CPU6: 4%
CPU7: 4%
CPU8: 6%
RAM: 22%
F: 49.3GiB U: 14.1GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg 1.38 0.28
kworker/u32:3-ev 0.50 0.00
conky 0.38 0.05
conkyqd/5 0.25 0.05
kaoiryqd/5 0.13 0.06
conkyqd/5 0.13 0.05
conkyqd/5 0.13 0.05
conky 0.13 0.05
sleep 0.00 0.00
systemd-hostnam 0.00 0.01
DATE
09:29
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 35%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
TSURUGI DEVICE U…


Displays
TSURUGI DEVICE UNLOCKER
With this panel you can unlock your devices in READ/WRITE mode:
✓ Please select the device you want to unlock and press: Unlock
✘ To quit press: Exit
Advanced mode switch allows to show all available partitions
Unlock
Device
Size
Current status
/dev/sda
490GiB
read-only
/dev/sdb
3.7TiB
read-only
/dev/sdc
3.7TiB
read-write
Exit
Unlock
Advanced
Device refresh
TSURUGI DEVICE U…


Applications
Places
System
09:30
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
TSURUGI device unlo…
Onboard
OSINT Switcher
Warning
During the installation process the WRITE BLOCKER feature will be temporarily DISABLED and all devices will be put in READ WRITE mode.
Are you sure to continue?
No
Yes
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 21h 7m
CPU1: 1%
CPU2: 2%
CPU3: 2%
CPU4: 6%
CPU5: 4%
CPU6: 1%
CPU7: 1%
CPU8: 0%
RAM: 22%
F: 49.4GiB U: 14.1GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg 1.38 0.27
kworker/u32:0-ev 0.50 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
mate-netspeed-a 0.13 0.07
mate-multiload-a 0.13 0.05
kworker/3:0-even 0.13 0.00
kworker/7:2-even 0.13 0.00
DATE
09:30
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 35%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Warning (as superuser)

COMPUTER FORENSIC

GUYMAGER 0.8.13 (as superuser)

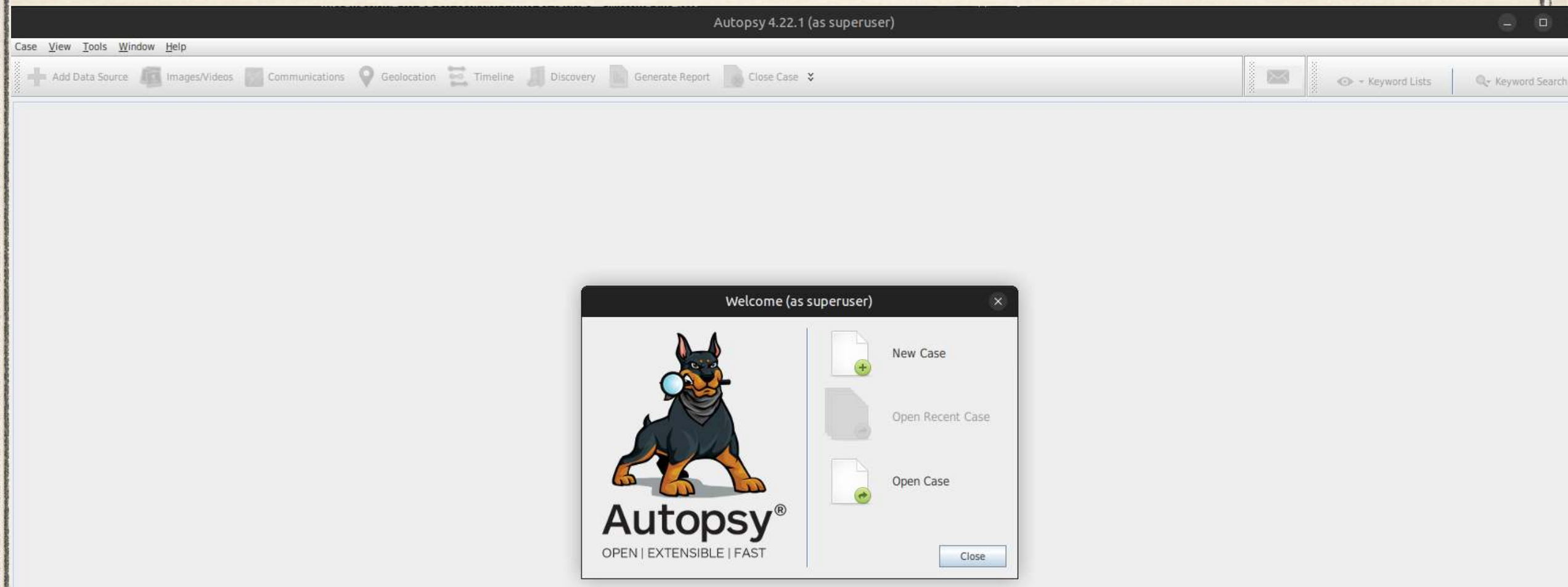
Devices Misc Help

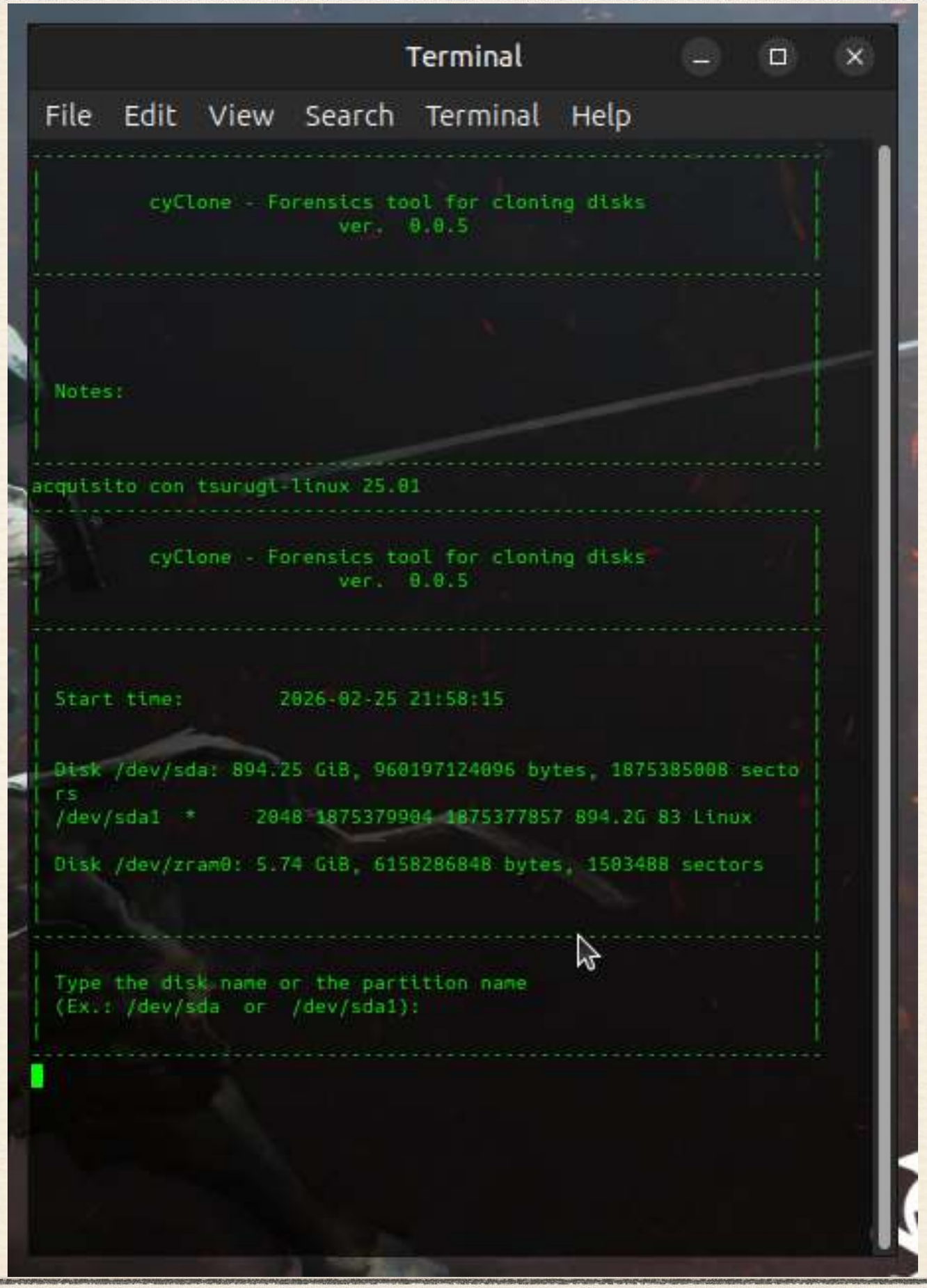
Rescan

Serial nr.	Linux device	Model	State	Size	Hidden areas	Bad sectors	Progress
2505201604522642859313	/dev/sde	General UDisk	Idle	15.7GB	unknown		
1731182E77EB	/dev/sda	Crucial_CT525MX300SSD1	Idle	525.1GB	unknown		
Y75EK5I9F58D	/dev/sdb	TOSHIBA_HDWE140	Idle	4.0TB	HPA:No / DCO:Unknown		
Y75EK5I8F58D	/dev/sdc	TOSHIBA_HDWE140	Idle	4.0TB	HPA:No / DCO:Unknown		
	/dev/loop0	filesystem.squashfs	Idle	10.3GB	unknown		
	/dev/dm-0		Idle	11.3GB	unknown		

Size
Sector size
Image file
Info file
Current speed
Started
Hash calculation
Source verification
Image verification
Overall speed (all acquisitions)


Welcome (as superuser)
Autopsy®
OPEN | EXTENSIBLE | FAST
New Case
Open Recent Case
Open Case
Close


Autopsy 4.22.1 (as superuser)
Case View Tools Window Help
Add Data Source
Images/Videos
Communications
Geolocation
Timeline
Discovery
Generate Report
Close Case
Keyword Lists
Keyword Search
Welcome (as superuser)
Autopsy®
OPEN | EXTENSIBLE | FAST
New Case
Open Recent Case
Open Case
Close


Terminal
File Edit View Search Terminal Help
cyClone - Forensics tool for cloning disks
ver. 0.0.5
Notes:
acquisito con tsurugi-linux 25.01
cyClone - Forensics tool for cloning disks
ver. 0.0.5
Start time: 2026-02-25 21:58:15
Disk /dev/sda: 894.25 GiB, 960197124096 bytes, 1875385008 sectors
/dev/sda1 * 2048 1875379904 1875377857 894.2G 83 Linux
Disk /dev/zram0: 5.74 GiB, 6158286848 bytes, 1503488 sectors
Type the disk name or the partition name
(Ex.: /dev/sda or /dev/sda1):

DDRescue-GUI

File Edit View Tools Help

Welcome to DDRescue-GUI!

Image Source:

-- Please Select --

Recovery Map File (previously called logfile):

-- Please Select --

Image Destination:

-- Please Select --

Settings

Update Disk Info

Disk Information

Detailed Info

Terminal Output

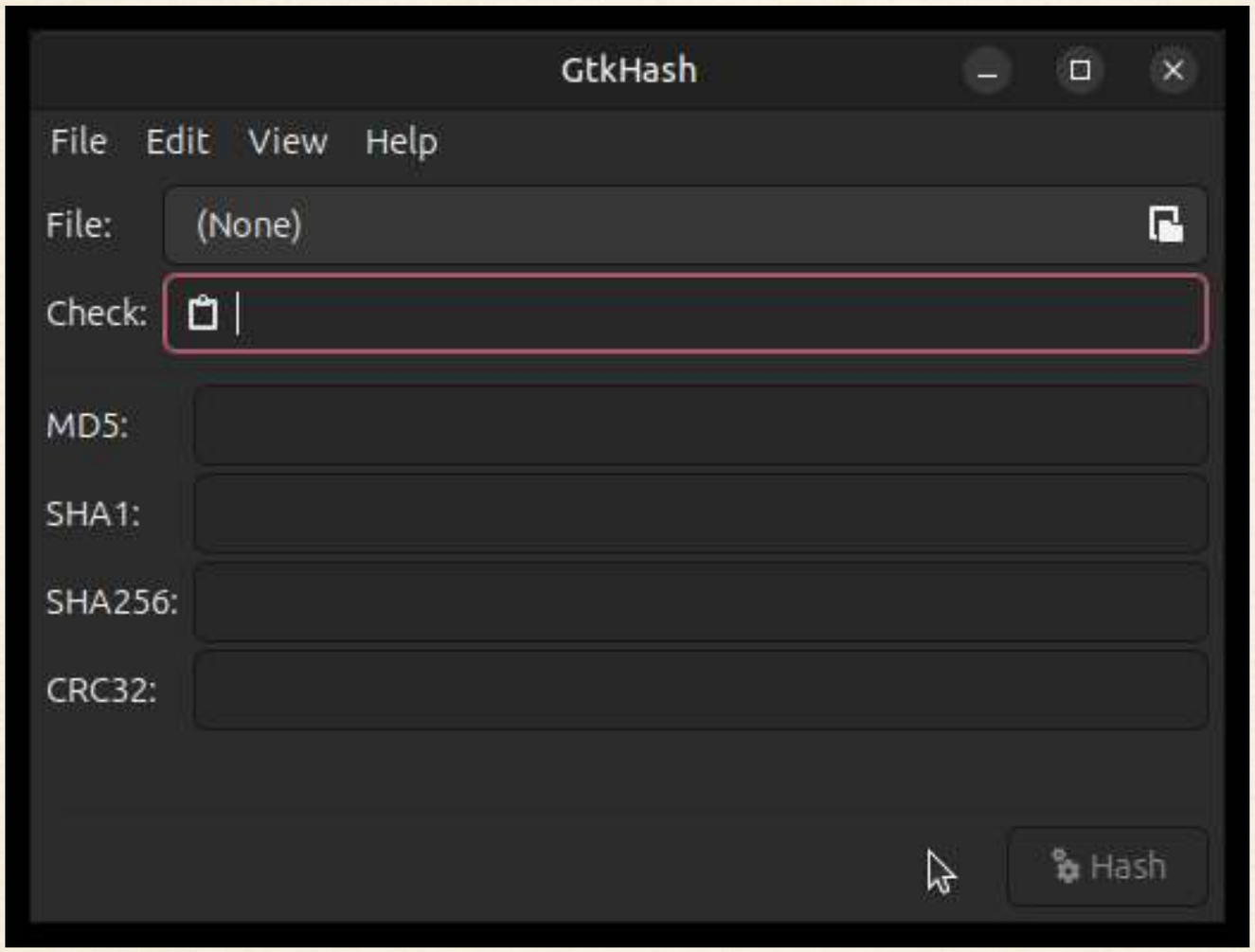
Time Elapsed:

Estimated Time Remaining:

Start

Ready.

v2.2.0 (3/8/2024)


GtkHash
File Edit View Help
File:
(None)
Check:
MD5:
SHA1:
SHA256:
CRC32:
Hash

QuickHash v3.3.4 (Oct 2023) - The easy and convenient way to hash data in Linux, OSX and Windows, 64-bit

File About

Copyright © 2011-2023 Ted Smith http://www.quickhash-gui.org

Text File FileS Copy Compare Two Files Compare Two Folders Disks Base64 Data

-Algorithm-

- MD5
- SHA-1
- SHA-3
- SHA256
- SHA512
- xxHash64
- Blake2B
- Blake3
- CRC32

-Text Hashing-

Type or paste text here - hash will update as you type

-Line-By-Line Hashing Options-

Set Delim

Source text INcluded in output

TEXT Line-By-Line

Text FILE Line-By-Line

Make UPPER

Make lower

Clear Text Area

Expected Hash Value (clear, then paste value from other utility)

...

...hash value

Switch case

MOBILE FORENSIC

ALEAPP version 3.4.0

ALEAPP

LEAPPs

Select the file (tar/zip/gz) or directory of the target Android full file system extraction for parsing:

Browse File | Browse Folder

Select Output Folder:

Browse Folder

Available Modules:

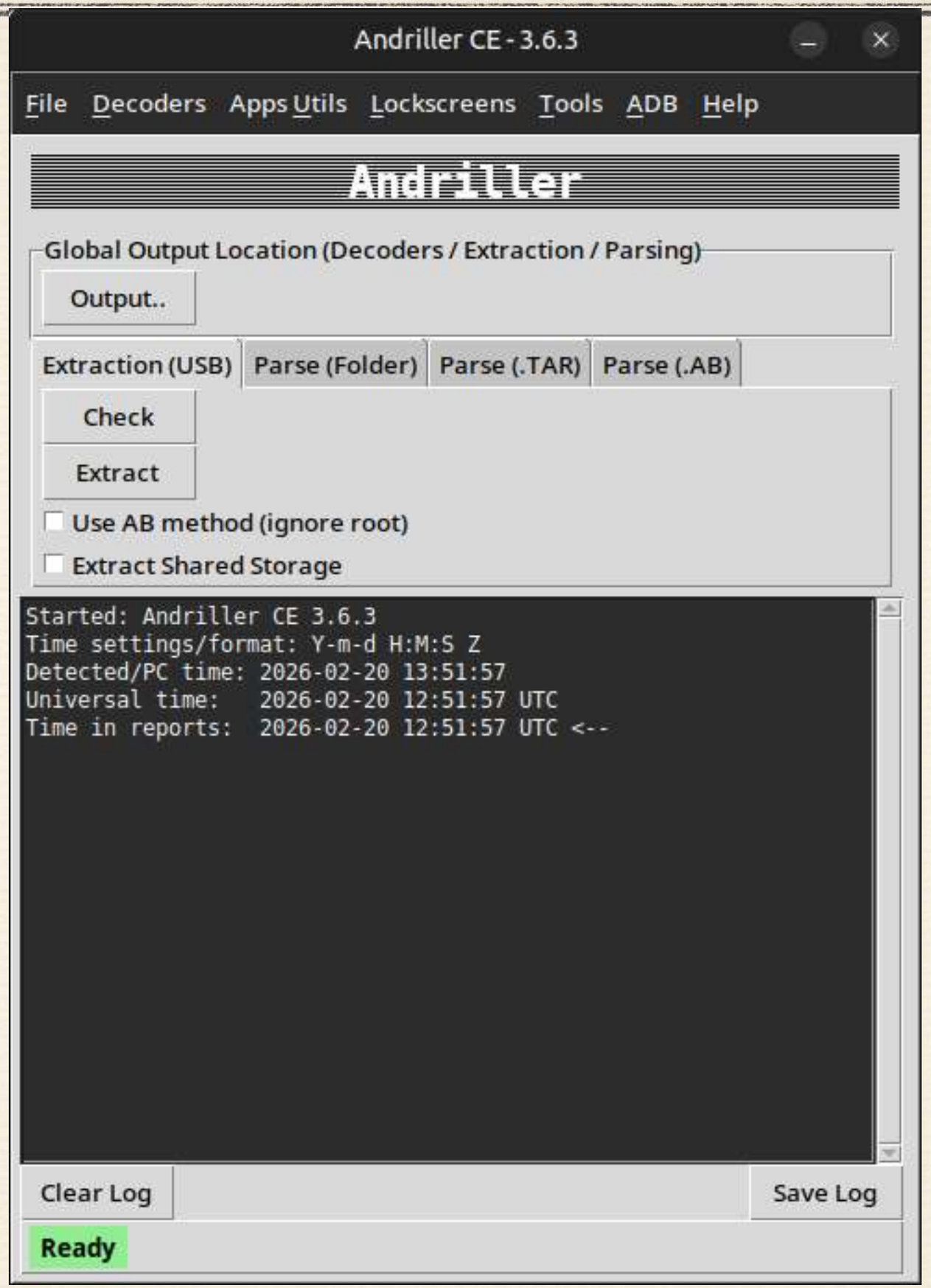
Select All | Deselect All | Load Profile | Save Profile

- [x] Accounts [Accounts_ce | accounts_ce.py]
- [x] Accounts [Authentication tokens | accounts_ce.py]
- [x] Accounts [Accounts_de | accounts_de.py]
- [x] Adidas-Running [AdidasActivities | AdidasActivities.py]
- [x] Adidas-Running [AdidasGoals | AdidasGoals.py]
- [x] Adidas-Running [AdidasUser | AdidasUser.py]
- [x] Airtag Detection [Android Airtag Alerts | airtagAndroid.py]
- [x] Airtag Detection [Android Airtag Scans | airtagAndroid.py]
- [x] Airtag Detection [Android Airtag Last Scan | airtagAndroid.py]
- [x] Airtag Detection [Android Airtag Passive Scan | airtagAndroid.py]
- [x] AirTags [AirGuard | airGuard.py]
- [x] AirTags [atrackerdetect | atrackerdetect.py]
- [x] Android Auto [Android Auto Connected Cars | androidauto.py]

Process | Close | Case Data

Number of selected modules: 316 / 317

(Modules making some time to run were automatically unselected)


Andriller CE - 3.6.3
File Decoders Apps Utils Lockscreens Tools ADB Help
Andriller
Global Output Location (Decoders / Extraction / Parsing)
Output..
Extraction (USB) Parse (Folder) Parse (.TAR) Parse (.AB)
Check
Extract
Use AB method (ignore root)
Extract Shared Storage
Started: Andriller CE 3.6.3
Time settings/format: Y-m-d H:M:S Z
Detected/PC time: 2026-02-20 13:51:57
Universal time: 2026-02-20 12:51:57 UTC
Time in reports: 2026-02-20 12:51:57 UTC <--
Clear Log
Save Log
Ready

Universal Forensic Apple Device Extractor 1.0.1

```
No device detected!

Python:        3.12.3
PMD3:          4.27.0
pyiosbackup:   0.2.3
iOSbackup:     0.9.925
paramiko:      4.0.0
pandas:        2.3.1

   59 65 74 20 73 75 63 68 20 69 73
   20 6F 66 74 20 74 68 65 20 63 6F
   75 72 73 65 20 6F 66 20 64 65 65
   64 73 20 74 68 61 74 20 6D 6F 76
   65 20 74 68 65 20 77 68 65 65 6C
   73 20 6F 66 20 74 68 65 20 77 6F
   72 6C 64 3A 20 73 6D 61 6C 6C 20
   68 61 6E 64 73 20 64 6F 20 74 68
   65 6D 20 62 65 63 61 75 73 65 20
   74 68 65 79 20 6D 75 73 74 2C 20
   77 68 69 6C 65 20 74 68 65 20 65
   79 65 73 20 6F 66 20 74 68 65 20
   67 72 65 61 74 20 61 72 65 20 65
   6C 73 65 77 68 65 72 65 2E
```

UFADE by Christian Peter

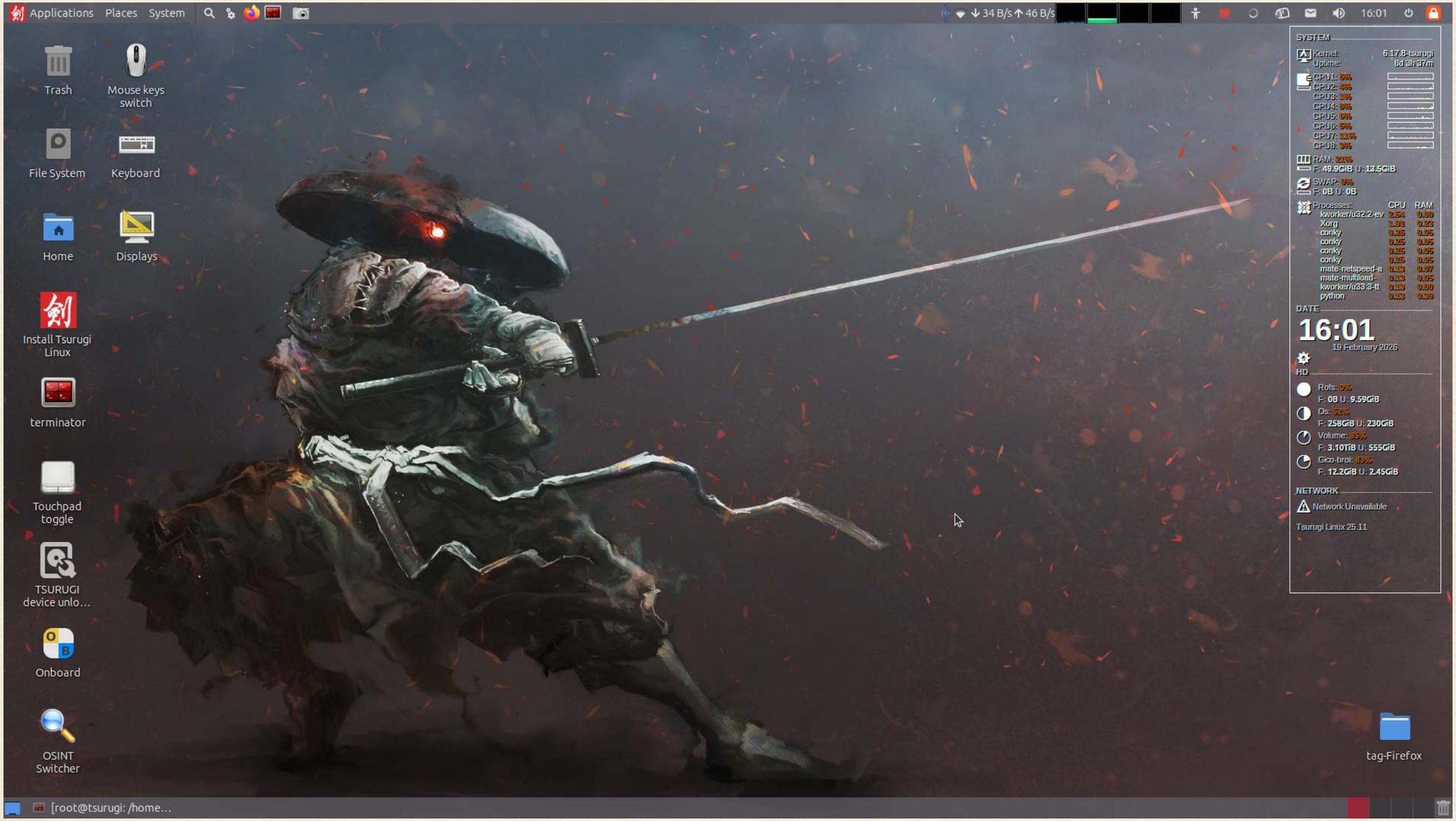
No device found!

Make sure the device is connected and confirm the "trust" message on the device screen.

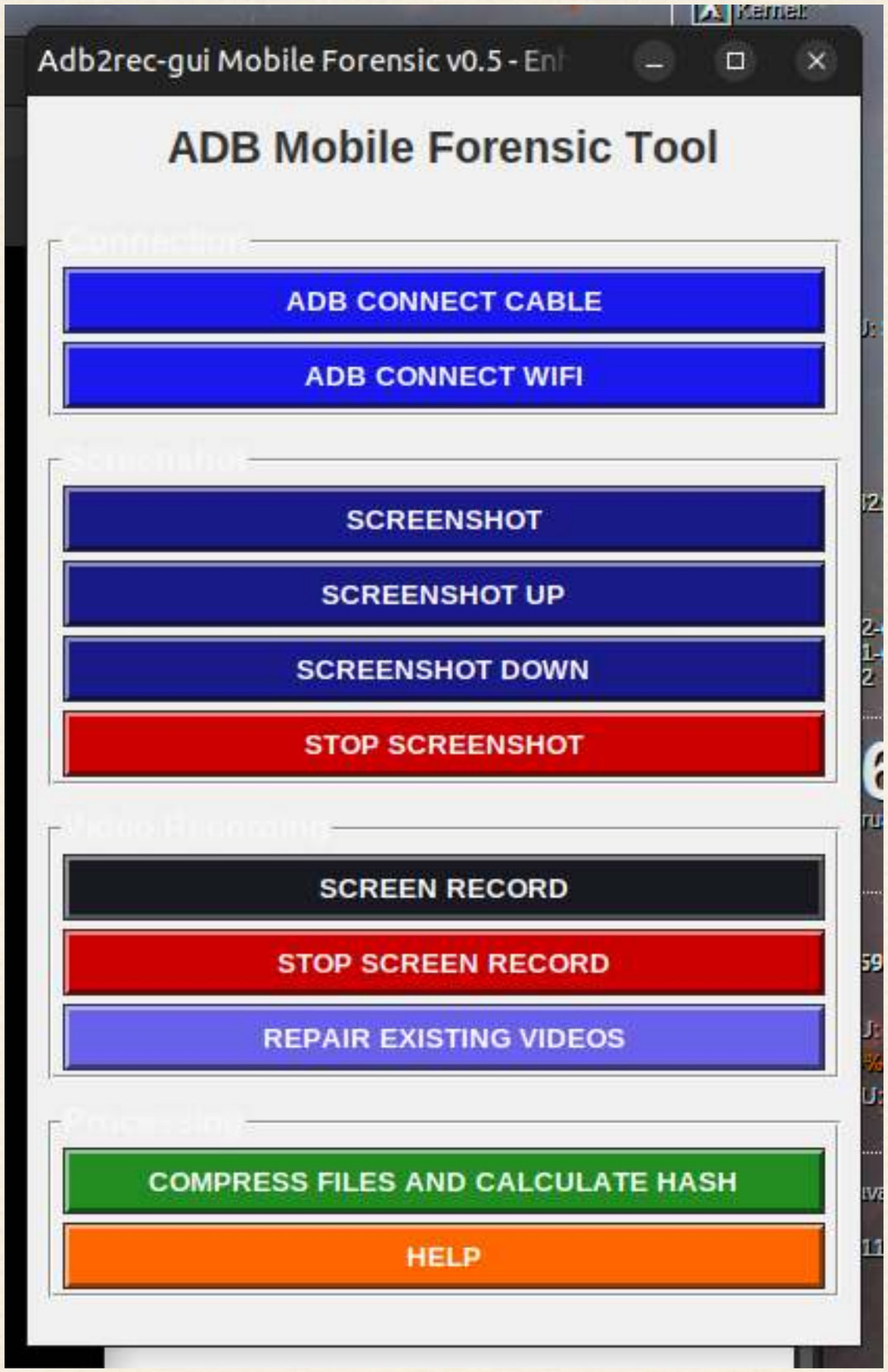
On a Windows-system, make sure "Apple Devices" or "iTunes" is installed.

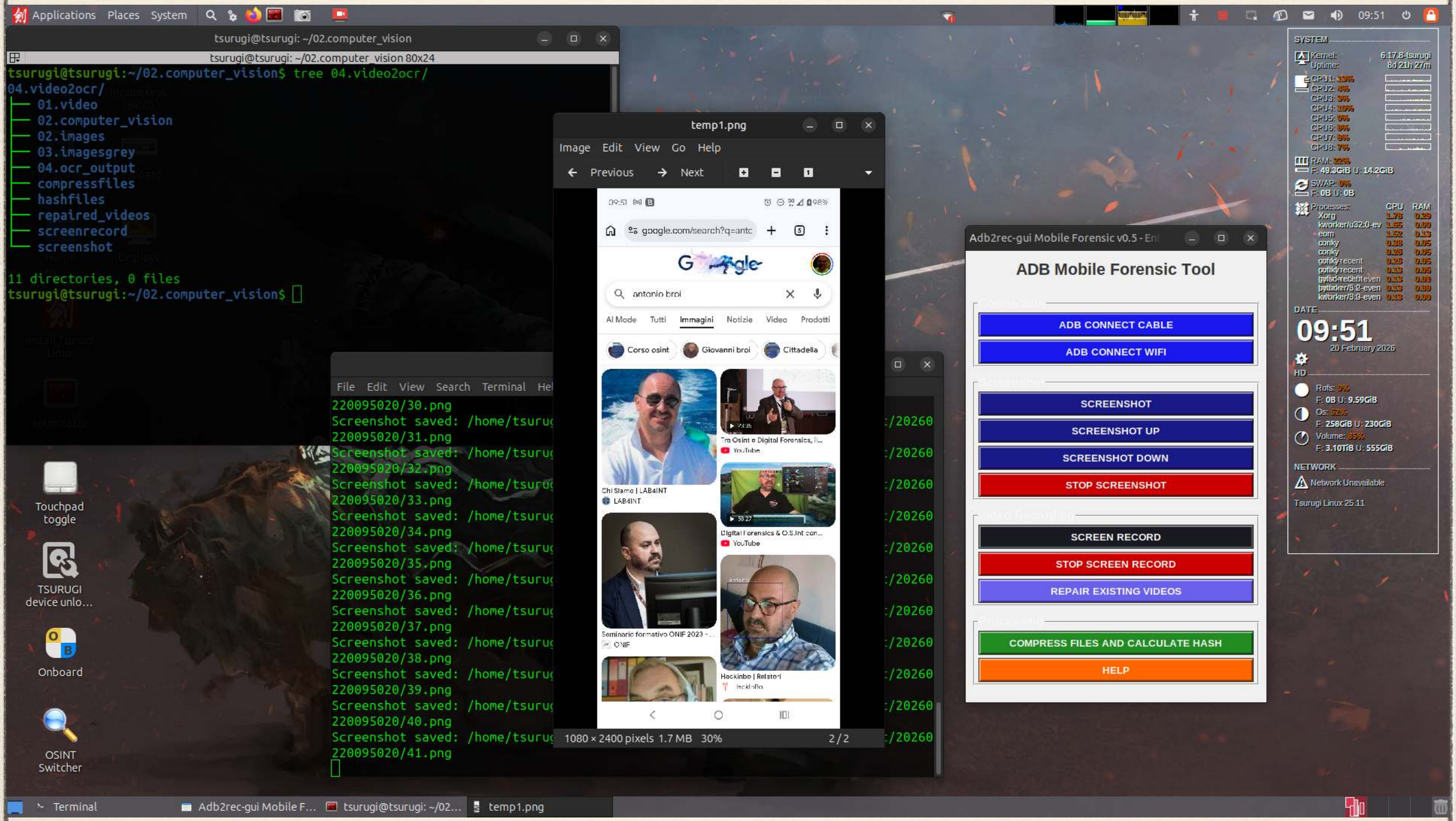
Check again

Data Operations


Applications
Places
System
34 B/s 46 B/s
16:01
Trash
Mouse keys switch
File System
Keyboard
Home
Displays
Install Tsurugi Linux
terminator
Touchpad toggle
TSURUGI device unlo…
Onboard
OSINT Switcher
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 3h 37m
CPU1: 6%
CPU2: 4%
CPU3: 1%
CPU4: 6%
CPU5: 6%
CPU6: 6%
CPU7: 11%
CPU8: 3%
RAM: 21%
F: 49.9GiB U: 13.5GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
kworker/u32:2-ev 2.54 0.00
Xorg 1.91 0.23
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
mate-netspeed-a 0.13 0.07
mate-multiload- 0.13 0.05
kworker/u33:3-tt 0.13 0.00
python 0.13 0.39
DATE
16:01
19 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Gico-broi: 83%
F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
tag-Firefox
[root@tsurugi: /home…

ADB2REC-GUI


Adb2rec-gui Mobile Forensic v0.5 - En
ADB Mobile Forensic Tool
ADB CONNECT CABLE
ADB CONNECT WIFI
SCREENSHOT
SCREENSHOT UP
SCREENSHOT DOWN
STOP SCREENSHOT
SCREEN RECORD
STOP SCREEN RECORD
REPAIR EXISTING VIDEOS
COMPRESS FILES AND CALCULATE HASH
HELP


Applications Places System
09:51
tsurugi@tsurugi: ~/02.computer_vision
tsurugi@tsurugi: ~/02.computer_vision 80x24
tsurugi@tsurugi:~/02.computer_vision$ tree 04.video2ocr/
04.video2ocr/
├── 01.video
├── 02.computer_vision
├── 02.images
├── 03.imagesgrey
├── 04.ocr_output
├── compressfiles
├── hashfiles
├── repaired_videos
├── screenrecord
└── screenshot
11 directories, 0 files
tsurugi@tsurugi:~/02.computer_vision$
temp1.png
Image Edit View Go Help
Previous Next
antonio broi
Corso osint
Giovanni broi
Cittadella
Chi Siamo | LAB4INT
Seminario formativo ONIF 2023 -...
Digital Forensics & O.S.Int con...
Hackinbo | Relatori
1080 × 2400 pixels 1.7 MB 30% 2 / 2
File Edit View Search Terminal
220095020/30.png
Screenshot saved: /home/tsurug
220095020/31.png
Screenshot saved: /home/tsurug
220095020/32.png
Screenshot saved: /home/tsurug
220095020/33.png
Screenshot saved: /home/tsurug
220095020/34.png
Screenshot saved: /home/tsurug
220095020/35.png
Screenshot saved: /home/tsurug
220095020/36.png
Screenshot saved: /home/tsurug
220095020/37.png
Screenshot saved: /home/tsurug
220095020/38.png
Screenshot saved: /home/tsurug
220095020/39.png
Screenshot saved: /home/tsurug
220095020/40.png
Screenshot saved: /home/tsurug
220095020/41.png
Adb2rec-gui Mobile Forensic v0.5 - En
ADB Mobile Forensic Tool
ADB CONNECT CABLE
ADB CONNECT WIFI
SCREENSHOT
SCREENSHOT UP
SCREENSHOT DOWN
STOP SCREENSHOT
SCREEN RECORD
STOP SCREEN RECORD
REPAIR EXISTING VIDEOS
COMPRESS FILES AND CALCULATE HASH
HELP
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 21h 27m
RAM: 32%
F: 49.3GiB U: 14.2GiB
SWAP: 0%
F: 0B U: 0B
DATE
09:51
20 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 62%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Touchpad toggle
TSURUGI device unlo...
Onboard
OSINT Switcher
Terminal
Adb2rec-gui Mobile F...
tsurugi@tsurugi: ~/02...
temp1.png

Applications Places System 10:55

55893828c9976924 - Thunar

File Edit View Go Bookmarks Help

/home/tsurugi/02.computer_vision/04.video2ocr/55893828c9976924/

tsurugi
- 01.Screenshots
- 02.computer_vision
  - 01.known_sources
  - 02.unknown_targets
  - 03.reports
  - 04.video2ocr
    - 01.video
    - 02.computer_vision
    - 02.images
    - 03.imagesgrey
    - 04.ocr_output
    - 55893828c9976924
      - repaired_videos
      - screenrecord
        - 20260220095117
      - screenshot
    - compressfiles
    - hashfiles
  - 99.TMP
- 2026_02_19_16_27_22

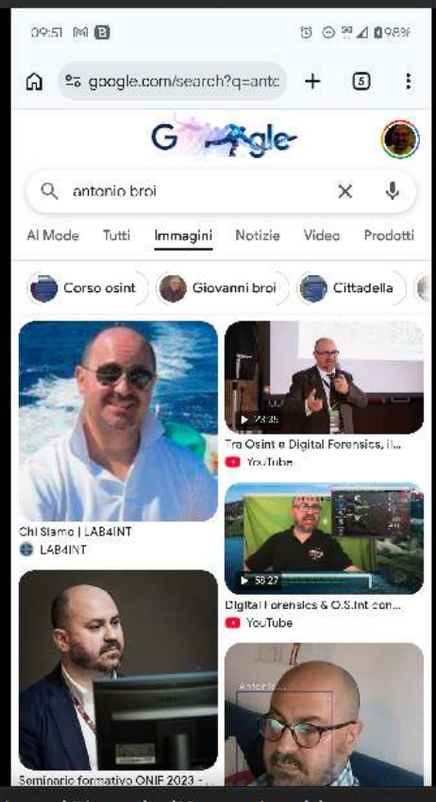
Name	Size	Type
screenrecord	60 bytes	Folder
screenshot	60 bytes	Folder
repaired_videos	40 bytes	Folder
hash_screenrecord.txt	168 bytes	Plain text document
hash_repaired_videos.txt	174 bytes	Plain text document
screenrecord.tar.gz	92.9 MiB	Tar archive (gzip-compressed)
repaired_videos.tar.gz	124 bytes	Tar archive (gzip-compressed)
hash_screenshot.txt	164 bytes	Plain text document
screenshot.tar.gz	69.2 MiB	Tar archive (gzip-compressed)
temp1.png	1.6 MiB	PNG image
temp.png	1.6 MiB	PNG image

"temp1.png" | 1.6 MiB (1697104 bytes) | PNG image

temp1.png

Image Edit View Go Help

Previous Next



Adb2rec-gui Mobile Forensic v0.5 - En

ADB Mobile Forensic Tool

ADB CONNECT CABLE
ADB CONNECT WIFI

SCREENSHOT
SCREENSHOT UP
SCREENSHOT DOWN
STOP SCREENSHOT

SCREEN RECORD
STOP SCREEN RECORD
REPAIR EXISTING VIDEOS

COMPRESS FILES AND CALCULATE HASH
HELP

o symbols found

```
1  aa972ee2690c0880b13982d3989f96db  compressfiles/screenrecord.tar.gz
2  70ae47f000e467ec6aec070b2a70785c480b05fb400a02bdbe85debdce2acd2c  compressfiles/screenrecord.ta
3
```

10:52:49: This is Geany 2.0.
10:52:49: File /home/tsurugi/02.computer_vision/04.video2ocr/5589382

Status

This is Geany 2.0.

Switcher

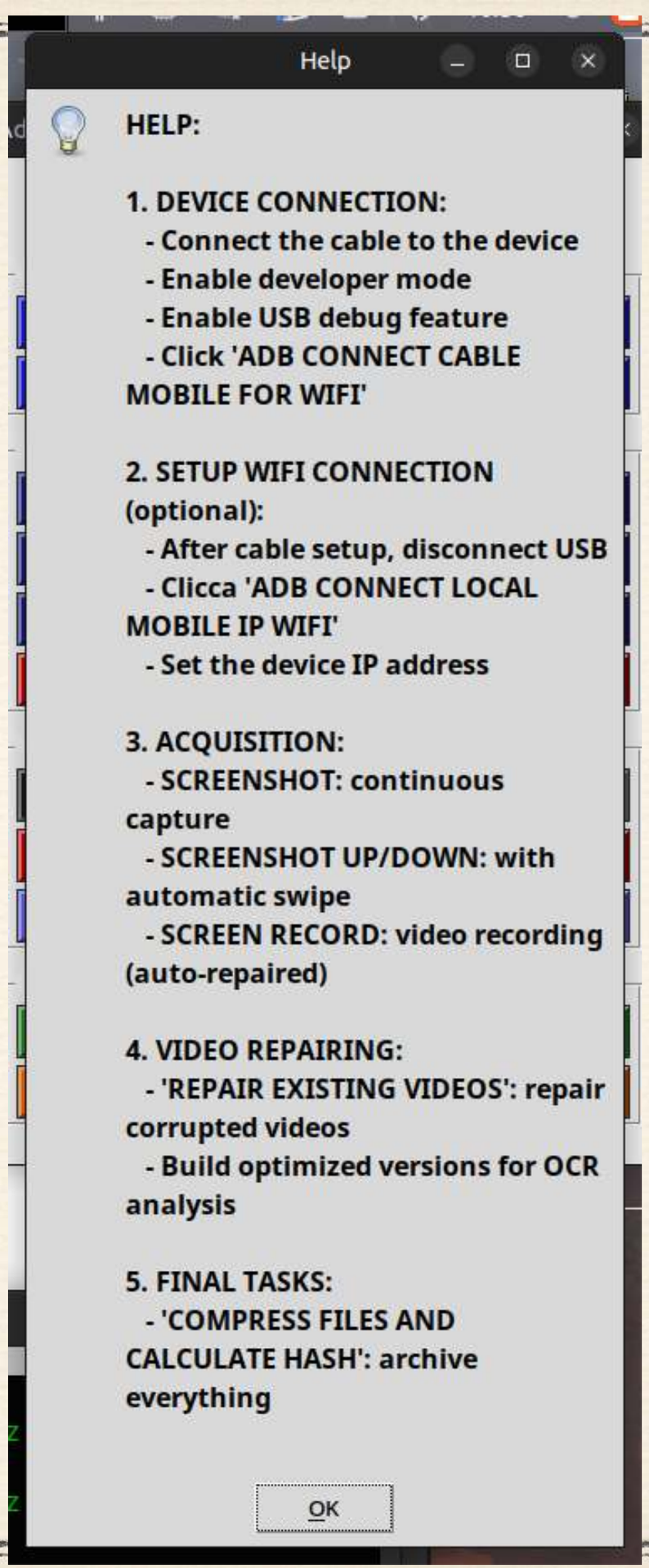
tsurugi@tsurugi: ~/02.computer_vision

tsurugi@tsurugi: ~/02.computer_vision 115x8

Close Window

```
1.mp4  2.mp4
tsurugi@tsurugi:~/02.computer_vision$ md5sum 04.video2ocr/55893828c9976924/screenrecord.tar.gz
aa972ee2690c0880b13982d3989f96db  04.video2ocr/55893828c9976924/screenrecord.tar.gz
tsurugi@tsurugi:~/02.computer_vision$ sha256 04.video2ocr/55893828c9976924/screenrecord.tar.gz
sha256deep  sha256sum
tsurugi@tsurugi:~/02.computer_vision$ sha256sum 04.video2ocr/55893828c9976924/screenrecord.tar.gz
70ae47f000e467ec6aec070b2a70785c480b05fb400a02bdbe85debdce2acd2c  04.video2ocr/55893828c9976924/screenrecord.tar.gz
tsurugi@tsurugi:~/02.computer_vision$
```

Terminal | Adb2rec-gui Mobile F... | tsurugi@tsurugi: ~/02... | 55893828c9976924 - ... | hash_screenrecord.tx... | temp1.png


Help
HELP:
1. DEVICE CONNECTION:
- Connect the cable to the device
- Enable developer mode
- Enable USB debug feature
- Click 'ADB CONNECT CABLE MOBILE FOR WIFI'
2. SETUP WIFI CONNECTION (optional):
- After cable setup, disconnect USB
- Clicca 'ADB CONNECT LOCAL MOBILE IP WIFI'
- Set the device IP address
3. ACQUISITION:
- SCREENSHOT: continuous capture
- SCREENSHOT UP/DOWN: with automatic swipe
- SCREEN RECORD: video recording (auto-repaired)
4. VIDEO REPAIRING:
- 'REPAIR EXISTING VIDEOS': repair corrupted videos
- Build optimized versions for OCR analysis
5. FINAL TASKS:
- 'COMPRESS FILES AND CALCULATE HASH': archive everything
OK

ADB2REC-GUI

IN FASE DI SVILUPPO

Applications Places System

29 B/s 52 B/s 13:31

SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 9d 1h 8m
CPU1: 7%
CPU2: 15%

Object Detection - Tsurugi Linux

Object Detection & ALPR

WEBCAM DETECTION

START WEBCAM DETECTION

STOP WEBCAM

VIDEO INPUT DETECTION

SELECT INPUT VIDEO

2.mp4

Width: 1024 Conf: 0.6

START VIDEO DETECTION

STOP VIDEO DETECTION

VIDEO OUTPUT (RECORDING)

SELECT OUTPUT VIDEO

out.mp4

VIDEO → VIDEO DETECTION

STOP VIDEO → VIDEO

WEBCAM → VIDEO DETECTION

STOP WEBCAM → VIDEO

LICENSE PLATE RECOGNITION (ALPR)

Engine: easyocr

ALPR - CARS FOLDER

ALPR - ALL FOLDER

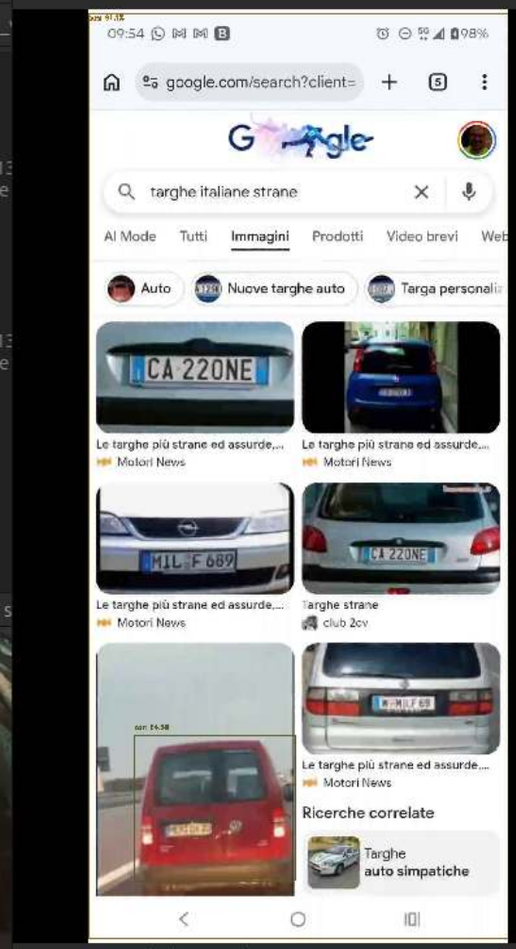
ALPR - SELECT FOLDER

ALPR - SINGLE IMAGE

2026_02_20_13_25

Image Edit View Go Help

Previous Next



1024 × 2275 pixels 450.9 kB 32% 3 / 11

ALL_RESULTS.txt - /home/tsurugi/02.computer_vision/03.reports/ALL_ALPR_2026_

Edit Search View Document Project Build Tools Help

Symbols

object_detection_video_write_video.py object_detection_GUI.py 2026_02_20_13_25_45_car_frame1.jpg.t

```
  plate24: GVABI  confidence: 24.51%
    region: x=0, y=0, w=1024, h=2275
  plate25: TOSI2D9TAIFNSICSIIL  confidence: 23.74%
    region: x=0, y=0, w=1024, h=2275
  plate26: PTI  confidence: 20.03%
    region: x=0, y=0, w=1024, h=2275

Image: /home/tsurugi/02.computer_vision/03.reports/ALL/2026_02_20_13_25_45_bus_frame1.jpg
  plate0: CA22ONE  confidence: 96.11%
    region: x=21, y=764, w=480, h=186
  plate1: CA22ONEL  confidence: 53.31%
    region: x=22, y=762, w=480, h=271
  plate2: QI2ZB  confidence: 20.95%
    region: x=665, y=1305, w=201, h=42

Image: /home/tsurugi/02.computer_vision/03.reports/ALL/2026_02_20_13_25_45_car_frame1.jpg
  plate0: CA22ONE  confidence: 96.11%
    region: x=21, y=764, w=480, h=186
  plate1: CA22ONEL  confidence: 53.31%
    region: x=22, y=762, w=480, h=271
  plate2: QI2ZB  confidence: 20.95%
    region: x=665, y=1305, w=201, h=42
```

```
13:30:17: This is Geany 2.0.
13:30:17: File /home/tsurugi/openalpr/src/cmake_modules/FindTesseract.cmake opened (1).
13:30:17: File /opt/computer_vision/object_detection_GUI.py opened (2).
13:30:17: File /opt/computer_vision/object_detection_live.py opened (3).
13:30:17: File /opt/computer_vision/object_detection_live_write_video.py opened (4).
13:30:17: File /opt/computer_vision/object_detection_video.py opened (5).
```

73 / 239 col: 17 sel: 7 INS TAB EOL: LF encoding: UTF-8 filetype: None scope: unknown

```
elf._target(*self._args, **self._kwargs)
e "/home/tsurugi/Downloads/./object_detection_GUI-autoinstall.py", line 876, in _run
v2.destroyAllWindows()
cv2.error: OpenCV(4.13.0) /io/opencv/modules/highgui/src/window.cpp:1295: error: (-2:Unspecified error) The function is not implemented. Rebuild the libr
t. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function 'cvDestroyAllWindows'
```

OSINT Switcher

tsurugi@tsurugi: ~/D... [Tsurugi Linux | Digital... [Installazione ALPR su... ALL Object Detection - Ts... ALL_RESULTS.txt - /ho... 2026_02_20_13_25_4...

revious → Next



2275 pixels 450.9 kB 32% 3 / 11

ALL_RESULTS.txt - /home/tsurugi/02.computer_vision/03.reports/ALL_ALPR_2026_

Edit Search View Document Project Build Tools Help

Symbols

bols found

object_detection_video_write_video.py × object_detection_GUI.py × 2026_02_20_13_25_45_car_frame1.jpg.t

```
57    plate24: GVABI  confidence: 24.51%
58      region: x=0, y=0, w=1024, h=2275
59    plate25: TOSI2D9TAIFNSICSIIL  confidence: 23.74%
60      region: x=0, y=0, w=1024, h=2275
61    plate26: PTI  confidence: 20.03%
62      region: x=0, y=0, w=1024, h=2275
63
64  Image: /home/tsurugi/02.computer_vision/03.reports/ALL/2026_02_20_13_25_45_bus_frame1.jpg
65    plate0: CA22ONE  confidence: 96.11%
66      region: x=21, y=764, w=480, h=186
67    plate1: CA22ONEL  confidence: 53.31%
68      region: x=22, y=762, w=480, h=271
69    plate2: QI2ZB  confidence: 20.95%
70      region: x=665, y=1305, w=201, h=42
71
72  Image: /home/tsurugi/02.computer_vision/03.reports/ALL/2026_02_20_13_25_45_car_frame1.jpg
73    plate0: CA22ONE  confidence: 96.11%
74      region: x=21, y=764, w=480, h=186
75    plate1: CA22ONEL  confidence: 53.31%
76      region: x=22, y=762, w=480, h=271
77    plate2: QI2ZB  confidence: 20.95%
78      region: x=665, y=1305, w=201, h=42
79
```

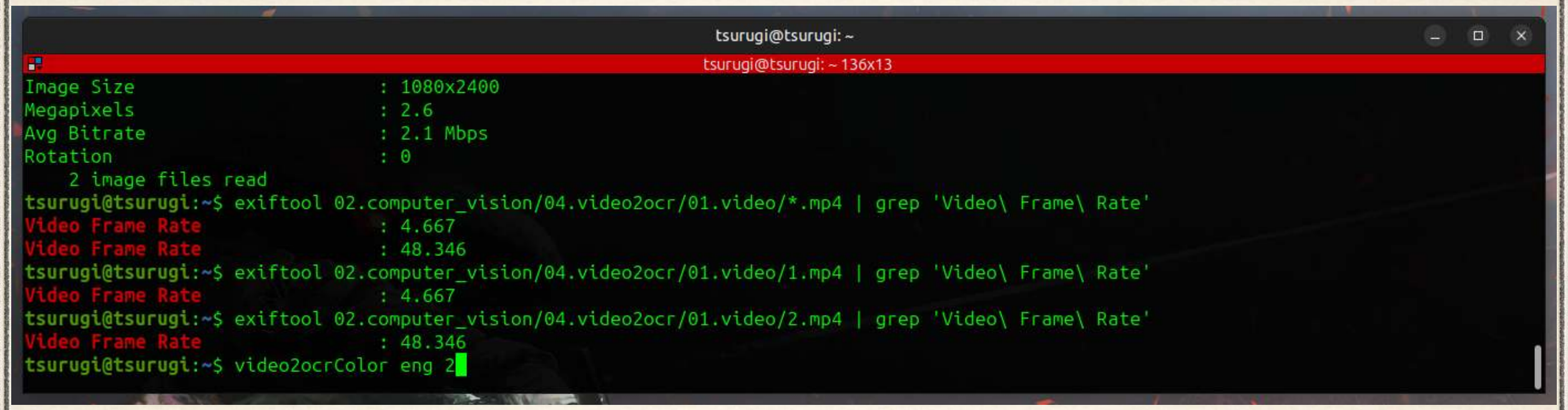
```
13:30:17: This is Geany 2.0.
13:30:17: File /home/tsurugi/openalpr/src/cmake_modules/FindTesseract.cmake opened (1).
13:30:17: File /opt/computer_vision/object_detection_GUI.py opened (2).
13:30:17: File /opt/computer_vision/object_detection_live.py opened (3).
13:30:17: File /opt/computer_vision/object_detection_live_write_video.py opened (4).
13:30:17: File /opt/computer_vision/object_detection_video.py opened (5).
```

73 / 239 col: 17 sel: 7 INS TAB EOL: LF encoding: UTF-8 filetype: None scope: unknown

```
e "/usr/lib/python3.12/threading.py", line 1010, in run
elf._target(*self._args, **self._kwargs)
e "/home/tsurugi/Downloads/./object_detection_GUI-autoinstall.py", line 876, in _run
v2.destroyAllWindows()
cv2.error: OpenCV(4.13.0) /io/opencv/modules/highgui/src/window.cpp:1295: error: (-2:Unspecified error) The function is not implemented. Rebuild the libr
t. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function 'cvDestroyAllWindows'
```

zione ALPR su... ALL Object Detection - Ts... ALL_RESULTS.txt - /ho... 2026_02_20_13_25_4...

VIDEO2OCR-COLOR


tsurugi@tsurugi: ~
tsurugi@tsurugi: ~ 136x13
Image Size : 1080x2400
Megapixels : 2.6
Avg Bitrate : 2.1 Mbps
Rotation : 0
2 image files read
tsurugi@tsurugi:~$ exiftool 02.computer_vision/04.video2ocr/01.video/*.mp4 | grep 'Video\ Frame\ Rate'
Video Frame Rate : 4.667
Video Frame Rate : 48.346
tsurugi@tsurugi:~$ exiftool 02.computer_vision/04.video2ocr/01.video/1.mp4 | grep 'Video\ Frame\ Rate'
Video Frame Rate : 4.667
tsurugi@tsurugi:~$ exiftool 02.computer_vision/04.video2ocr/01.video/2.mp4 | grep 'Video\ Frame\ Rate'
Video Frame Rate : 48.346
tsurugi@tsurugi:~$ video2ocrColor eng 2

Applications Places System

video2ocr Tsurugi [eng] — Mozilla Firefox

File Edit View History Bookmarks Tools Help

video2ocr Tsurugi [eng]

file:///home/tsurugi/02.computer_vision/04.video2ocr/index_eng_color.html

Tsurugi Linux

"/home/tsurugi/02.computer_vision/04.video2ocr/04.ocr_output/1.mp4-0002.png.txt"



AlMode~ Tutti Immagini Notizie Video Prodotti cS Corso osint ew Giovanni broi Ss Cittadella Tra Osint e Digital Forensics, il... YouTube Chi Siamo | LAB4INT @ LaABaint Digital Forensics & O.S.Int con... YouTube e ONIF Hackinbo | Relatori HackInBo aN O cc

"/home/tsurugi/02.computer_vision/04.video2ocr/04.ocr_output/1.mp4-0003.png.txt"



0951 MB © © % 4 898% fl 2 google.com/search?q=anto + () : G Ryle ® Q. antonio broi x AlMode~ Tutti Immagini Notizie Video Prodotti cS Corso osint vs Giovanni broi Ss Cittadella (Tra Osint e Digital Forensics, il... YouTube Chi Siamo | LAB4INT @ LaABaint Digital Forensics & O.S.Int con... YouTube e ONIF Hackinbo | Relatori

OSINT Switcher

"01.video" | Folder

11:08

SYSTEM

Kernel: 6.17.8-tsurugi
Uptime: 8d 22h 45m

CPU1: 5%
CPU2: 5%
CPU3: 2%
CPU4: 7%
CPU5: 7%
CPU6: 4%
CPU7: 4%
CPU8: 2%

RAM: 27%
F: 46.3GiB U: 17.2GiB

SWAP: 0%
F: 0B U: 0B

Processes: CPU RAM
kworker/u32:2-ev 2.0% 0.0%
Xorg 1.9% 0.2%
firefox-bin 0.3% 0.5%

tsurugi@tsurugi: ~

tsurugi@tsurugi: ~ 60x32

```
    compatible_brands: isomiso2avc1mp41
    encoder         : Lavf60.16.100
  Stream #0:0(eng): Video: png, rgb24(pc, gbr/bt470bg/smpte1
70m, progressive), 1080x2400, q=2-31, 200 kb/s, 2 fps, 2 tbn
 (default)
    Metadata:
      handler_name    : VideoHandle
      vendor_id       : [0][0][0][0]
      encoder         : Lavc60.31.102 png
[out#0/image2 @ 0x55bfc3305340] video:636726kB audio:0kB sub
title:0kB other streams:0kB global headers:0kB muxing overhe
ad: unknown
frame=  362 fps= 18 q=-0.0 Lsize=N/A time=00:03:00.50 bitrat
e=N/A dup=0 drop=8345 speed=8.83x

########################################
1/3 conversion in png files terminated
########################################

NOW OCR EXTRACTION IS ONGOING, PLEASE WAIT...


########################################
2/3 OCR "Optical character recognition IS TERMINATED
########################################


########################################
3/3 OK all tasks are terminated
########################################

tsurugi@tsurugi:~$
```

04.video2ocr - Thunar | tsurugi@tsurugi: ~ | video2ocr Tsurugi [en...

video2ocr Tsurugi [eng] — Mozilla Firefox

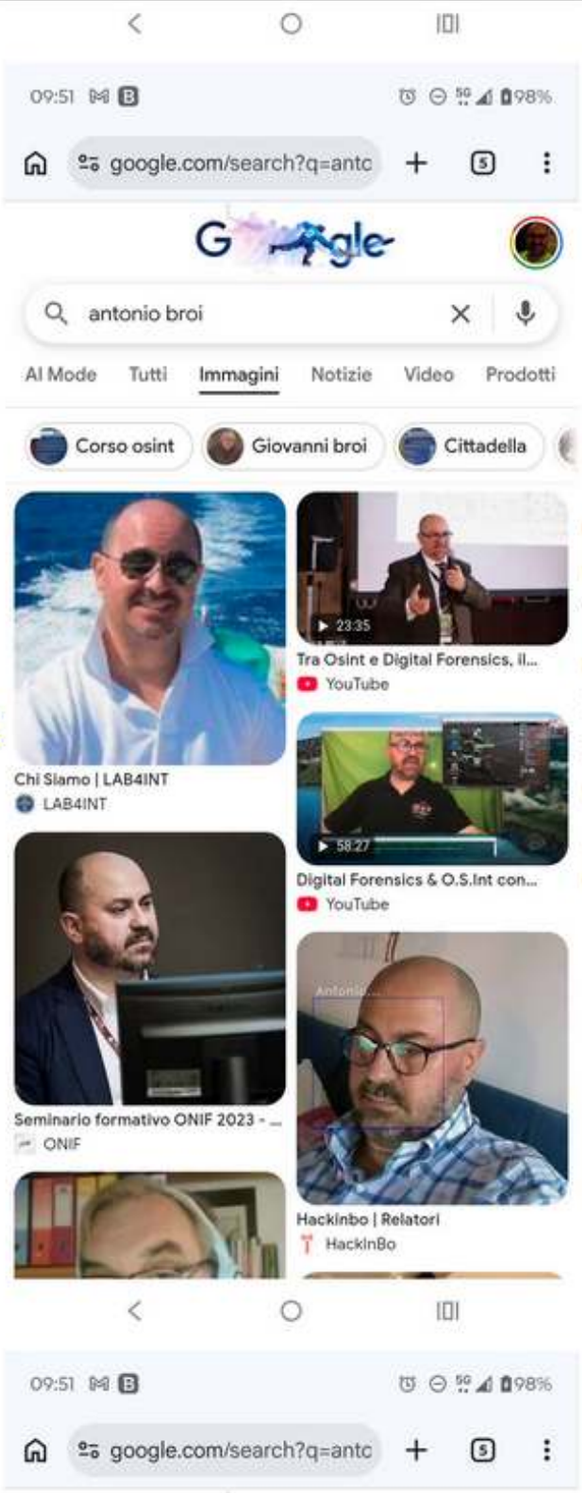
File Edit View History Bookmarks Tools Help

video2ocr Tsurugi [eng] × 1.mp4-0002.png (PNG Image × /home/tsurugi/02.computer_ × +

file:///home/tsurugi/02.computer_vision/04.video2ocr/index_eng_color.html

Tsurugi Linux

"/home/tsurugi/02.computer_vision/04.video2ocr/04.ocr_output/1.mp4-0007.png.txt"



0951 MB © © % 4 898% f 2 google.com/search?q=anto + () : Gye @ Q. antonio broi x AlMode- Tutti Immagini Notizie Video Prodotti cS Corso osint 8 Giovanni broi Ss Cittadella Tra Osint e Digital Forensics, il... YouTube Chi Siamo | LAB4INT @ LaApaint Digital Forensics & O.S.Int con... YouTube Seminario formativo ONIF 2023 - ... eo ONIF Hackinbo | Relatori HackInBo aol EE < O lol

Applications Places System

11:09

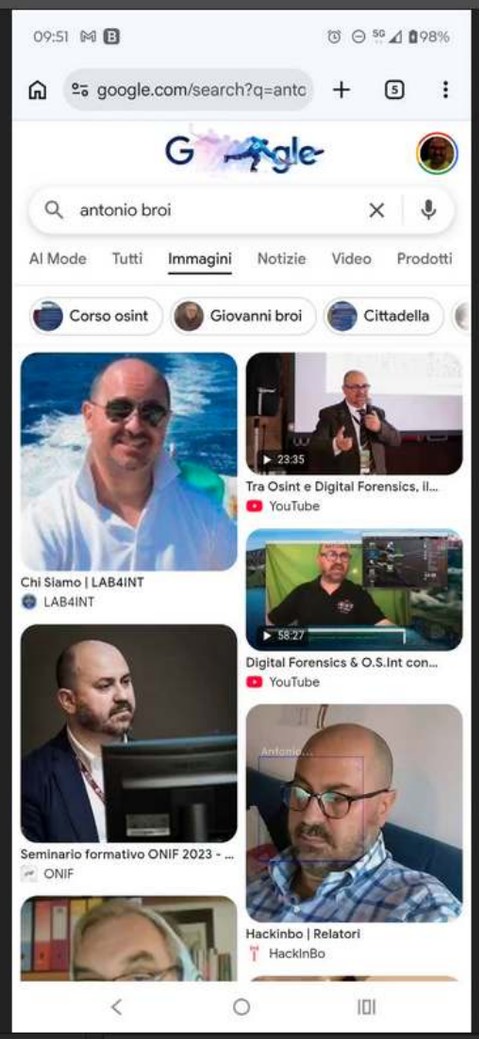
1.mp4-0002.png (PNG Image, 1080 × 2400 pixels) — Scaled (32%) — Mozilla Firefox

File Edit View History Bookmarks Tools Help

video2ocr Tsurugi [eng] | 1.mp4-0002.png (PNG Imag | /home/tsurugi/02.computer_

file:///home/tsurugi/02.computer_vision/04.video2ocr/02.images/1.mp4-0002.png

Tsurugi Linux



SYSTEM

Kernel: 6.17.8-tsurugi
Uptime: 8d 22h 46m

CPU1: 4%
CPU2: 2%
CPU3: 7%
CPU4: 2%
CPU5: 3%
CPU6: 1%
CPU7: 1%
CPU8: 3%

RAM: 27%
F: 46.3GiB U: 17.2GiB

SWAP: 0%
F: 0B U: 0B

Processes: CPU RAM
Xorg 1.25 0.27
conky 0.25 0.05

tsurugi@tsurugi: ~

tsurugi@tsurugi: ~ 60x32

```
    compatible_brands: isomiso2avc1mp41
    encoder         : Lavf60.16.100
  Stream #0:0(eng): Video: png, rgb24(pc, gbr/bt470bg/smpte1
70m, progressive), 1080x2400, q=2-31, 200 kb/s, 2 fps, 2 tbn
 (default)
    Metadata:
      handler_name    : VideoHandle
      vendor_id       : [0][0][0][0]
      encoder         : Lavc60.31.102 png
[out#0/image2 @ 0x55bfc3305340] video:636726kB audio:0kB sub
title:0kB other streams:0kB global headers:0kB muxing overhe
ad: unknown
frame=  362 fps= 18 q=-0.0 Lsize=N/A time=00:03:00.50 bitrat
e=N/A dup=0 drop=8345 speed=8.83x

########################################
1/3 conversion in png files terminated
########################################

NOW OCR EXTRACTION IS ONGOING, PLEASE WAIT...


########################################
2/3 OCR "Optical character recognition IS TERMINATED
########################################


########################################
3/3 OK all tasks are terminated
########################################

tsurugi@tsurugi:~$
```

OSINT Switcher

Desktop

"01.video" | Folder

04.video2ocr - Thunar | tsurugi@tsurugi: ~ | 1.mp4-0002.png (PNG...

Applications Places System

1.mp4-0002.png (PNG Image, 1080 × 2400 pixels) — Scaled (32%) — Mozilla Firefox

File Edit View History Bookmarks Tools Help

video2ocr Tsurugi [eng] | 1.mp4-0002.png (PNG Imag | /home/tsurugi/02.computer_

file:///home/tsurugi/02.computer_vision/04.video2ocr/02.images/1.mp4-0002.png

Tsurugi Linux



OSINT Switcher

"01.video" | Folder

11:09

SYSTEM

Kernel: 6.17.8-tsurugi
Uptime: 8d 22h 46m

CPU1: 1%
CPU2: 2%
CPU3: 2%
CPU4: 7%
CPU5: 5%
CPU6: 0%
CPU7: 1%
CPU8: 6%

RAM: 27%
F: 46.3GiB U: 17.2GiB

SWAP: 0%
F: 0B U: 0B

Processes: CPU RAM
Xorg 1.39 0.27
kworker/u32:2-ev 0.38 0.00
conky 0.25 0.05

tsurugi@tsurugi: ~

tsurugi@tsurugi: ~ 60x32

```
    compatible_brands: isomiso2avc1mp41
    encoder         : Lavf60.16.100
  Stream #0:0(eng): Video: png, rgb24(pc, gbr/bt470bg/smpte1
70m, progressive), 1080x2400, q=2-31, 200 kb/s, 2 fps, 2 tbn
 (default)
    Metadata:
      handler_name    : VideoHandle
      vendor_id       : [0][0][0][0]
      encoder         : Lavc60.31.102 png
[out#0/image2 @ 0x55bfc3305340] video:636726kB audio:0kB sub
title:0kB other streams:0kB global headers:0kB muxing overhe
ad: unknown
frame=  362 fps= 18 q=-0.0 Lsize=N/A time=00:03:00.50 bitrat
e=N/A dup=0 drop=8345 speed=8.83x

########################################
1/3 conversion in png files terminated
########################################

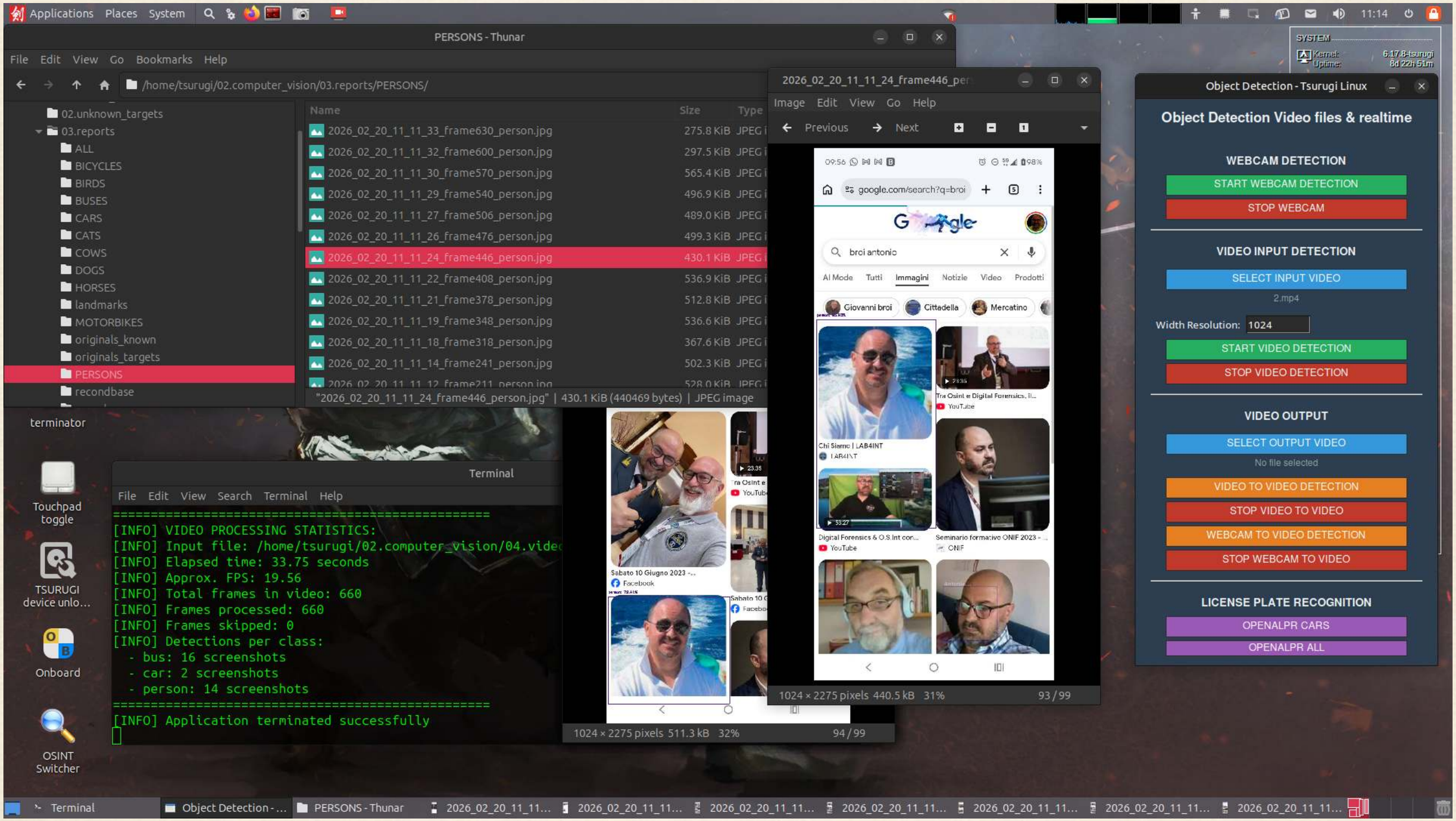
NOW OCR EXTRACTION IS ONGOING, PLEASE WAIT...

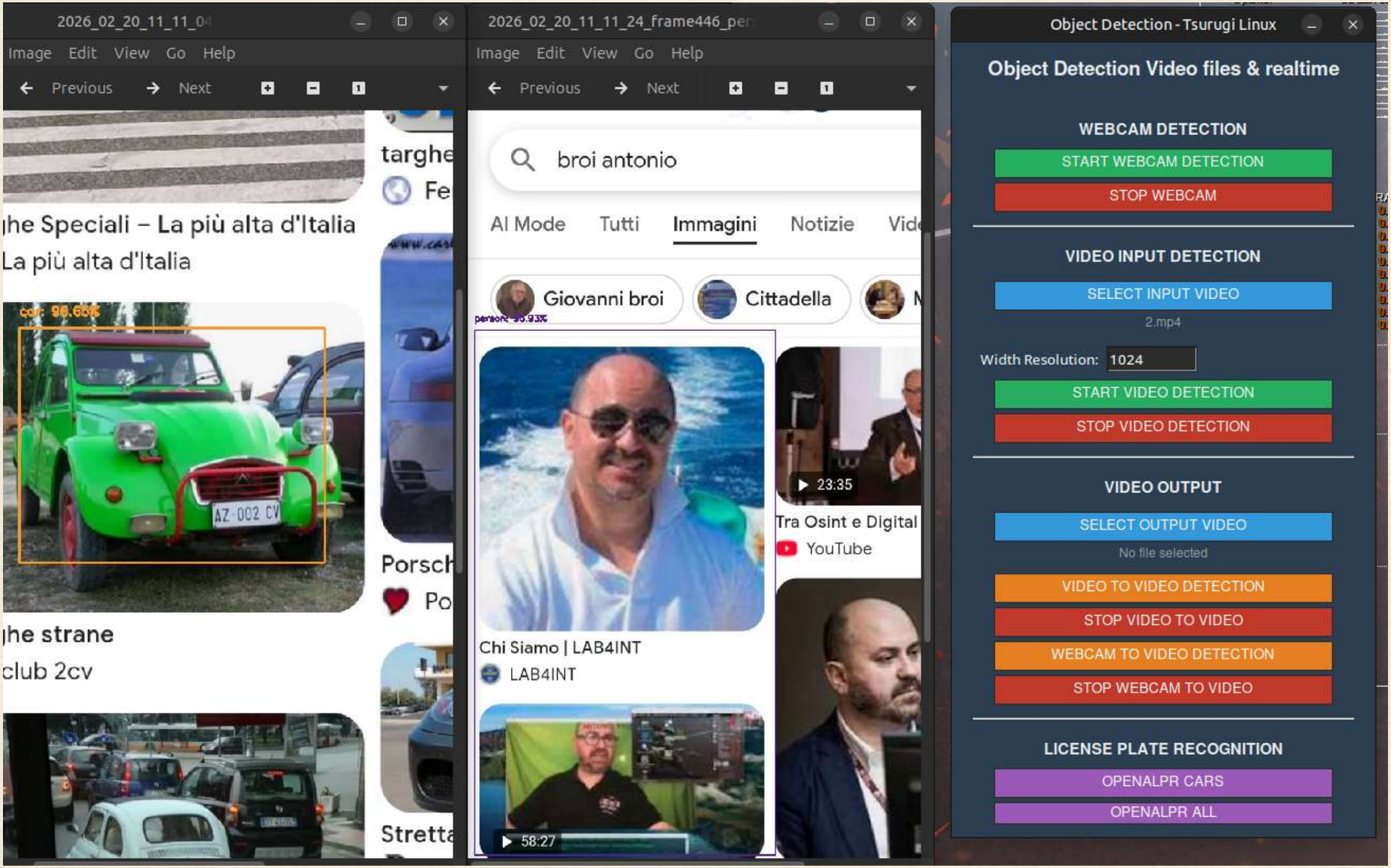

########################################
2/3 OCR "Optical character recognition IS TERMINATED
########################################


########################################
3/3 OK all tasks are terminated
########################################

tsurugi@tsurugi:~$
```

04.video2ocr - Thunar | tsurugi@tsurugi: ~ | 1.mp4-0002.png (PNG...


Applications Places System
11:14
PERSONS - Thunar
File Edit View Go Bookmarks Help
/home/tsurugi/02.computer_vision/03.reports/PERSONS/
02.unknown_targets
03.reports
ALL
BICYCLES
BIRDS
BUSES
CARS
CATS
COWS
DOGS
HORSES
landmarks
MOTORBIKES
originals_known
originals_targets
PERSONS
recondbase
Name
Size
Type
2026_02_20_11_11_33_frame630_person.jpg 275.8 KiB JPEG
2026_02_20_11_11_32_frame600_person.jpg 297.5 KiB JPEG
2026_02_20_11_11_30_frame570_person.jpg 565.4 KiB JPEG
2026_02_20_11_11_29_frame540_person.jpg 496.9 KiB JPEG
2026_02_20_11_11_27_frame506_person.jpg 489.0 KiB JPEG
2026_02_20_11_11_26_frame476_person.jpg 499.3 KiB JPEG
2026_02_20_11_11_24_frame446_person.jpg 430.1 KiB JPEG
2026_02_20_11_11_22_frame408_person.jpg 536.9 KiB JPEG
2026_02_20_11_11_21_frame378_person.jpg 512.8 KiB JPEG
2026_02_20_11_11_19_frame348_person.jpg 536.6 KiB JPEG
2026_02_20_11_11_18_frame318_person.jpg 367.6 KiB JPEG
2026_02_20_11_11_14_frame241_person.jpg 502.3 KiB JPEG
"2026_02_20_11_11_24_frame446_person.jpg" | 430.1 KiB (440469 bytes) | JPEG image
terminator
Touchpad toggle
TSURUGI device unlo...
Onboard
OSINT Switcher
Terminal
File Edit View Search Terminal Help
[INFO] VIDEO PROCESSING STATISTICS:
[INFO] Input file: /home/tsurugi/02.computer_vision/04.vide
[INFO] Elapsed time: 33.75 seconds
[INFO] Approx. FPS: 19.56
[INFO] Total frames in video: 660
[INFO] Frames processed: 660
[INFO] Frames skipped: 0
[INFO] Detections per class:
- bus: 16 screenshots
- car: 2 screenshots
- person: 14 screenshots
[INFO] Application terminated successfully
2026_02_20_11_11_24_frame446_per
Image Edit View Go Help
Previous Next
broi antonio
Al Mode Tutti Immagini Notizie Video Prodotti
Giovanni broi
Cittadella
Mercatino
Chi Siamo | LAB4INT
Digital Forensics & O.S.Int con...
Seminario formativo ONIF 2023 - ...
1024 × 2275 pixels 440.5 kB 31% 93 / 99
Sabato 10 Giugno 2023 -...
Facebook
1024 × 2275 pixels 511.3 kB 32% 94 / 99
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 22h 51m
Object Detection - Tsurugi Linux
Object Detection Video files & realtime
WEBCAM DETECTION
START WEBCAM DETECTION
STOP WEBCAM
VIDEO INPUT DETECTION
SELECT INPUT VIDEO
2.mp4
Width Resolution: 1024
START VIDEO DETECTION
STOP VIDEO DETECTION
VIDEO OUTPUT
SELECT OUTPUT VIDEO
No file selected
VIDEO TO VIDEO DETECTION
STOP VIDEO TO VIDEO
WEBCAM TO VIDEO DETECTION
STOP WEBCAM TO VIDEO
LICENSE PLATE RECOGNITION
OPENALPR CARS
OPENALPR ALL
Terminal
Object Detection - ...
PERSONS - Thunar


2026_02_20_11_11_04
Image Edit View Go Help
Previous Next
targhe
Fe
he Speciali – La più alta d'Italia
La più alta d'Italia
car: 96.65%
AZ 002 CV
Porsch
Po
he strane
club 2cv
Stretta
2026_02_20_11_11_24_frame446_per
Image Edit View Go Help
Previous Next
broi antonio
AI Mode
Tutti
Immagini
Notizie
Giovanni broi
Cittadella
person: 96.93%
Chi Siamo | LAB4INT
LAB4INT
58:27
23:35
Tra Osint e Digital
YouTube
Object Detection - Tsurugi Linux
Object Detection Video files & realtime
WEBCAM DETECTION
START WEBCAM DETECTION
STOP WEBCAM
VIDEO INPUT DETECTION
SELECT INPUT VIDEO
2.mp4
Width Resolution: 1024
START VIDEO DETECTION
STOP VIDEO DETECTION
VIDEO OUTPUT
SELECT OUTPUT VIDEO
No file selected
VIDEO TO VIDEO DETECTION
STOP VIDEO TO VIDEO
WEBCAM TO VIDEO DETECTION
STOP WEBCAM TO VIDEO
LICENSE PLATE RECOGNITION
OPENALPR CARS
OPENALPR ALL

```
urugi@tsurugi:~$ cd Downloads/
urugi@tsurugi:~/Downloads$ chmod +x object_detection_GUI*
urugi@tsurugi:~/Downloads$ ./object_detection_GUI-autoinstall-2.py
NFO] ALPR engine: EasyOCR
ARNING] OpenCV GUI (highgui) non disponibile.
Le finestre video non verranno mostrate, ma la registrazione funzionera'.
Per risolvere: sudo apt install python3-opencv libgtk2.0-dev
Oppure: pip uninstall opencv-python && pip install opencv-contrib-python
NFO] Starting detection task: source=/home/tsurugi/02.computer_vision/1.mp4
NFO] Model loaded successfully
NFO] Saved: 2026_02_20_13_35_13_person_frame1.jpg
NFO] Saved: 2026_02_20_13_35_14_bus_frame57.jpg
NFO] Saved: 2026_02_20_13_35_15_person_frame70.jpg
NFO] Saved: 2026_02_20_13_35_16_bus_frame131.jpg
NFO] Saved: 2026_02_20_13_35_18_person_frame194.jpg
NFO] Saved: 2026_02_20_13_35_18_bus_frame205.jpg
NFO] Saved: 2026_02_20_13_35_20_bus_frame280.jpg
NFO] Saved: 2026_02_20_13_35_21_person_frame289.jpg
NFO] Saved: 2026_02_20_13_35_23_bus_frame401.jpg
NFO] Saved: 2026_02_20_13_35_28_bus_frame575.jpg
NFO] Saved: 2026_02_20_13_35_30_bus_frame651.jpg
NFO] Saved: 2026_02_20_13_35_31_car_frame705.jpg
NFO] Saved: 2026_02_20_13_35_32_bus_frame725.jpg
NFO] Saved: 2026_02_20_13_35_34_car_frame783.jpg
NFO] Saved: 2026_02_20_13_35_35_bus_frame828.jpg
NFO] End of video

==============================================
NFO] Task completed in 22.5s
NFO] Frames: 838 total, 838 processed
NFO] Avg FPS: 37.3
- bus: 9 screenshots
- car: 2 screenshots
- person: 4 screenshots
==============================================
NFO] Task terminated
```

Applications Places System

TSURUGI
Accessories
Internet
Programming
Office
Graphics
Sound & Video
System Tools
Other
Universal Access

Imaging
Hashing
Mount
Timeline
Artifacts Analysis
Data Recovery
Memory Forensics
Malware Analysis
Password Recovery
Network Analysis
Picture Analysis
Computer Vision
Mobile Forensics
OSINT
Cloud Analysis
Virtual Forensics
Crypto Currency
Other Tools
Reporting

OCR
Darktable
bin2json
depix
driftnet
ExifRead
exif
exifprobe
exiftime
exiftool
exiv2
findimagedupes
ForensicPLate
GenPixed
heif-convert
heif-enc
heif-info
imageDifferenceHash_dirlist
jpeg_extract
mat2
MurMurHash.py
outguess
outguess-extract
pngcheck
pngcrush
pngsplit
recoverjpeg
searchScreenshots
sherloq.py
stegcracker
stegtools
steghide
stegseek
stegsnow

video2ocr Tsurugi
gocr
tesseract
tesseract installed languages
ambiguous_words
classifier_test
combine_lang_model
combine_tessdata
dawg2wordlist
lstmeval
lstmtraining
merge_unicharset_properties
mftraining
set_unicharset_properties
shapeclustering
text2image
unicharset_extractor
wordlist2dawg

Home
Display

Install Tsurugi Linux
terminator
Touchpad toggle
TSURUGI device unlo…
Onboard
OSINT Switcher

[root@tsurugi: /home…

Applications Places System

TSURUGI
Accessories
Internet
Programming
Office
Graphics
Sound & Video
System Tools
Other
Universal Access

Home Display

Imaging
Hashing
Mount
Timeline
Artifacts Analysis
Data Recovery
Memory Forensics
Malware Analysis
Password Recovery
Network Analysis
Picture Analysis
Computer Vision
Mobile Forensics
OSINT
Cloud Analysis
Virtual Forensics
Crypto Currency
Other Tools
Reporting

OCR
Darktable
bin2json
depix
driftnet
ExifRead
exif
exifprobe
exiftime
exiftool
exiv2
findimagedupes
ForensicPLate
GenPixed
heif-convert
heif-enc
heif-info
imageDifferenceHash_dirlist
jpeg_extract
mat2
MurMurHash.py
outguess
outguess-extract
pngcheck
pngcrush
pngsplit
recoverjpeg
searchScreenshots
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video2ocr Tsurugi
gocr
tesseract
tesseract installed languages
ambiguous_words
classifier_test
combine_lang_model
combine_tessdata
dawg2wordlist
lstmeval
lstmtraining
merge_unicharset_properties
mftraining
set_unicharset_properties
shapeclustering
text2image
unicharset_extractor
wordlist2dawg

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tsurugi@tsurugi: ~

Edit View Search Terminal Help

```
ugi@tsurugi:~$ video2ocrColor --help
R. directory tree has been created inside "/home/tsurugi"
 it's possible to copy viddeo files in "/home/tsurugi/02.computer_vision/01.VI
me/tsurugi/02.computer_vision/02.images"

 your video files inside the /home/tsurugi/02.computer_vision/04.video2ocr/01.
ipt.
 the process will end a detailed report with results will be displayed in html

  --help        display this help and exit
  --langs       display all supported langs for ocr process detection
  --version     display version information and exit

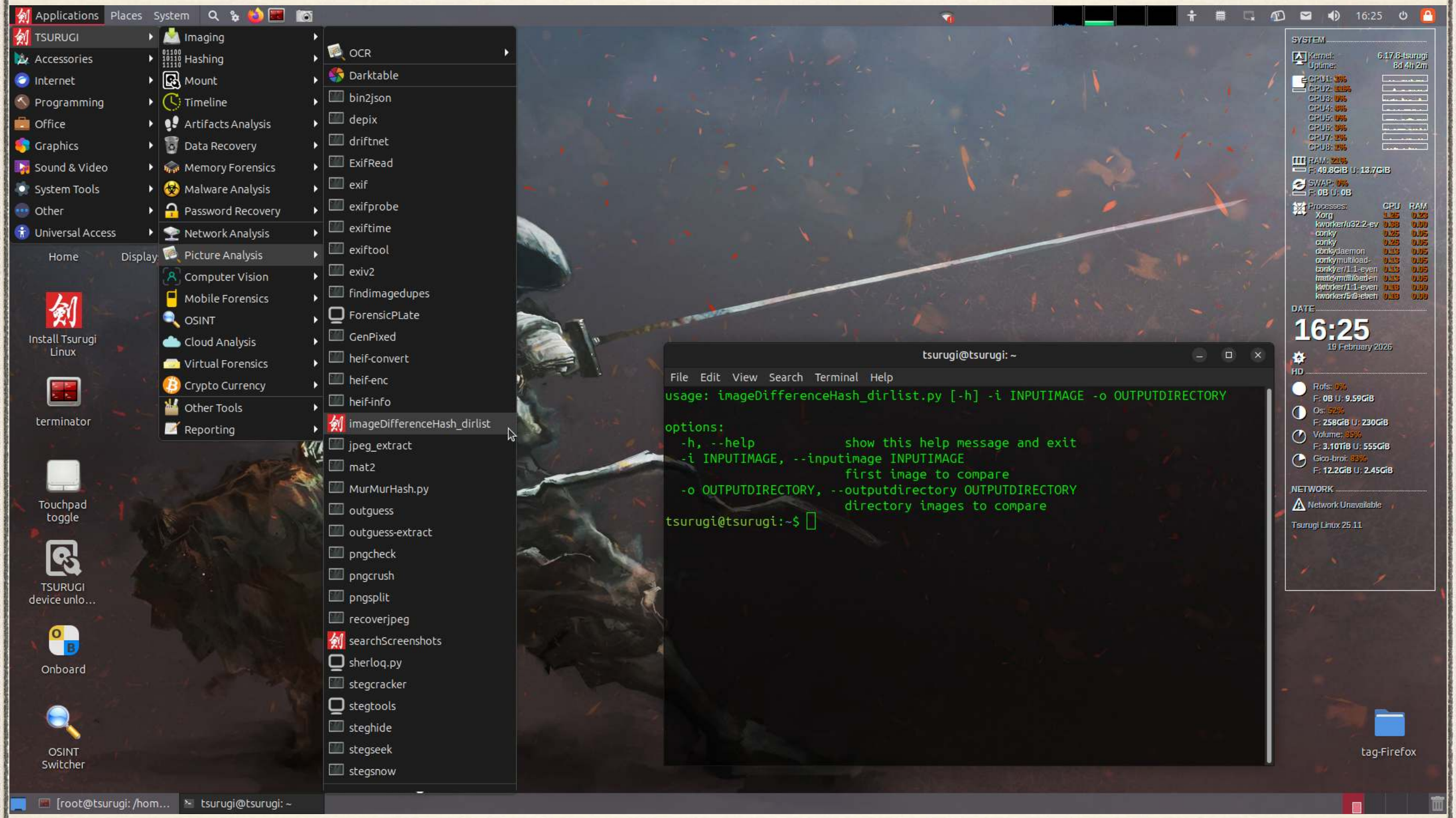
e examples:
o2ocr <language> <framerate>
o2ocr eng 5

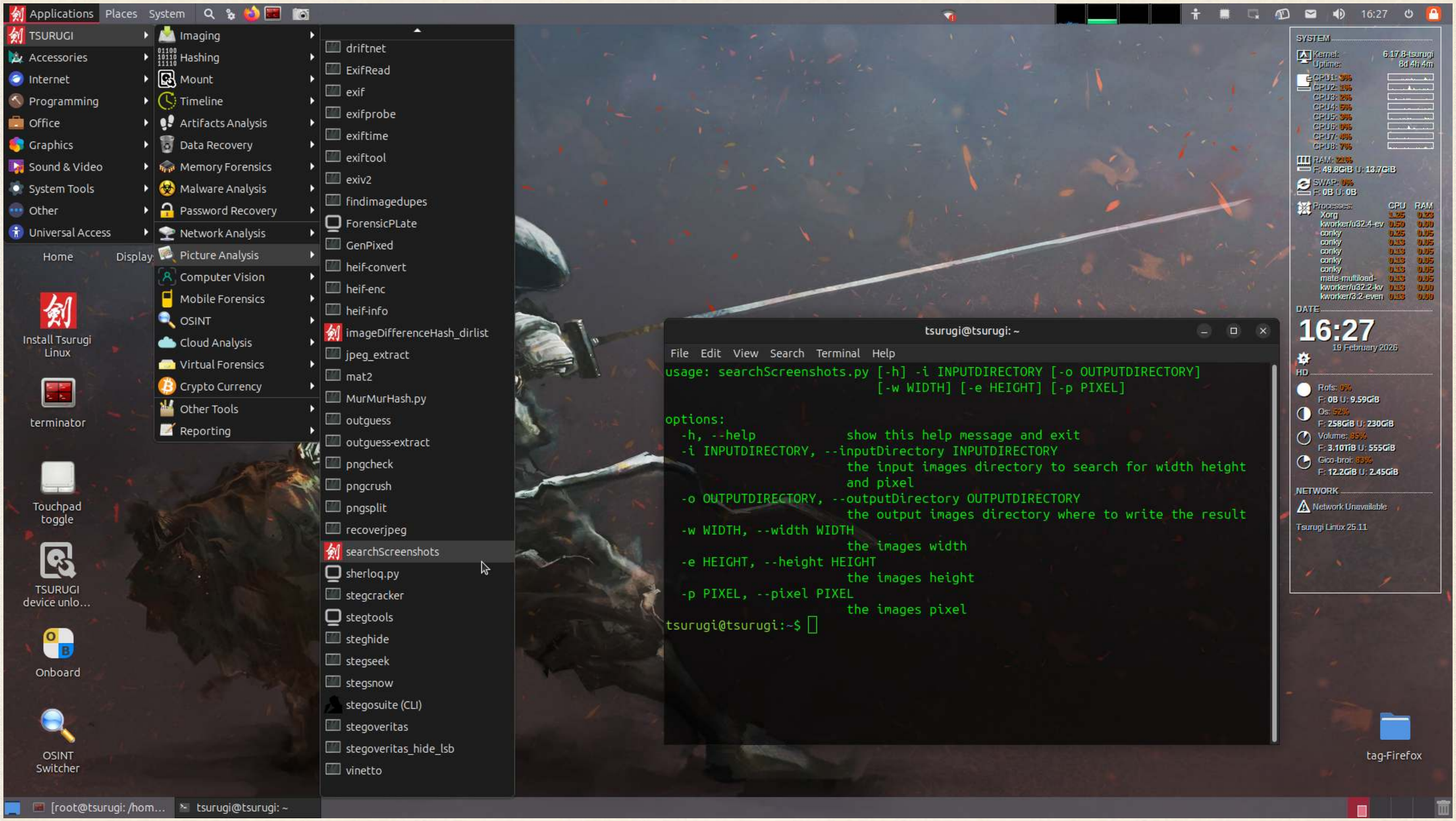
efault, if the framerate is not specified, its value is 1 (one image per secon
o2ocr eng

rt bugs to <antonio@tsurugi-linux.org>

ugi@tsurugi:~$
```

[root@tsurugi: /hom… tsurugi@tsurugi: ~


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File Edit View Search Terminal Help
usage: imageDifferenceHash_dirlist.py [-h] -i INPUTIMAGE -o OUTPUTDIRECTORY
options:
-h, --help show this help message and exit
-i INPUTIMAGE, --inputimage INPUTIMAGE
first image to compare
-o OUTPUTDIRECTORY, --outputdirectory OUTPUTDIRECTORY
directory images to compare
tsurugi@tsurugi:~$
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 2m
RAM: F: 49.8GiB U: 13.7GiB
SWAP: F: 0B U: 0B
Processes: CPU RAM
DATE
16:25
19 February 2026
HD
Rofs: F: 0B U: 9.59GiB
Os: F: 258GiB U: 230GiB
Volume: F: 3.10TiB U: 555GiB
Gico-brof: F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
tag-Firefox
[root@tsurugi: /hom...
tsurugi@tsurugi: ~


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outguess
outguess-extract
pngcheck
pngcrush
pngsplit
recoverjpeg
searchScreenshots
sherloq.py
stegcracker
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stegseek
stegsnow
stegosuite (CLI)
stegoveritas
stegoveritas_hide_lsb
vinetto
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tsurugi@tsurugi: ~
File Edit View Search Terminal Help
usage: searchScreenshots.py [-h] -i INPUTDIRECTORY [-o OUTPUTDIRECTORY]
[-w WIDTH] [-e HEIGHT] [-p PIXEL]
options:
-h, --help show this help message and exit
-i INPUTDIRECTORY, --inputDirectory INPUTDIRECTORY
the input images directory to search for width height
and pixel
-o OUTPUTDIRECTORY, --outputDirectory OUTPUTDIRECTORY
the output images directory where to write the result
-w WIDTH, --width WIDTH
the images width
-e HEIGHT, --height HEIGHT
the images height
-p PIXEL, --pixel PIXEL
the images pixel
tsurugi@tsurugi:~$
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 4m
CPU1: 3%
CPU2: 1%
CPU3: 2%
CPU4: 5%
CPU5: 3%
CPU6: 0%
CPU7: 4%
CPU8: 7%
RAM: 21%
F: 49.8GiB U: 13.7GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg 1.25 0.23
kworker/u32:4-ev 0.50 0.00
conky 0.25 0.05
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
conky 0.13 0.05
mate-multiload- 0.13 0.05
kworker/u32:2-kv 0.13 0.00
kworker/3:2-even 0.13 0.00
DATE
16:27
19 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Gico-broi: 83%
F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
tag-Firefox
[root@tsurugi: /hom...
tsurugi@tsurugi: ~

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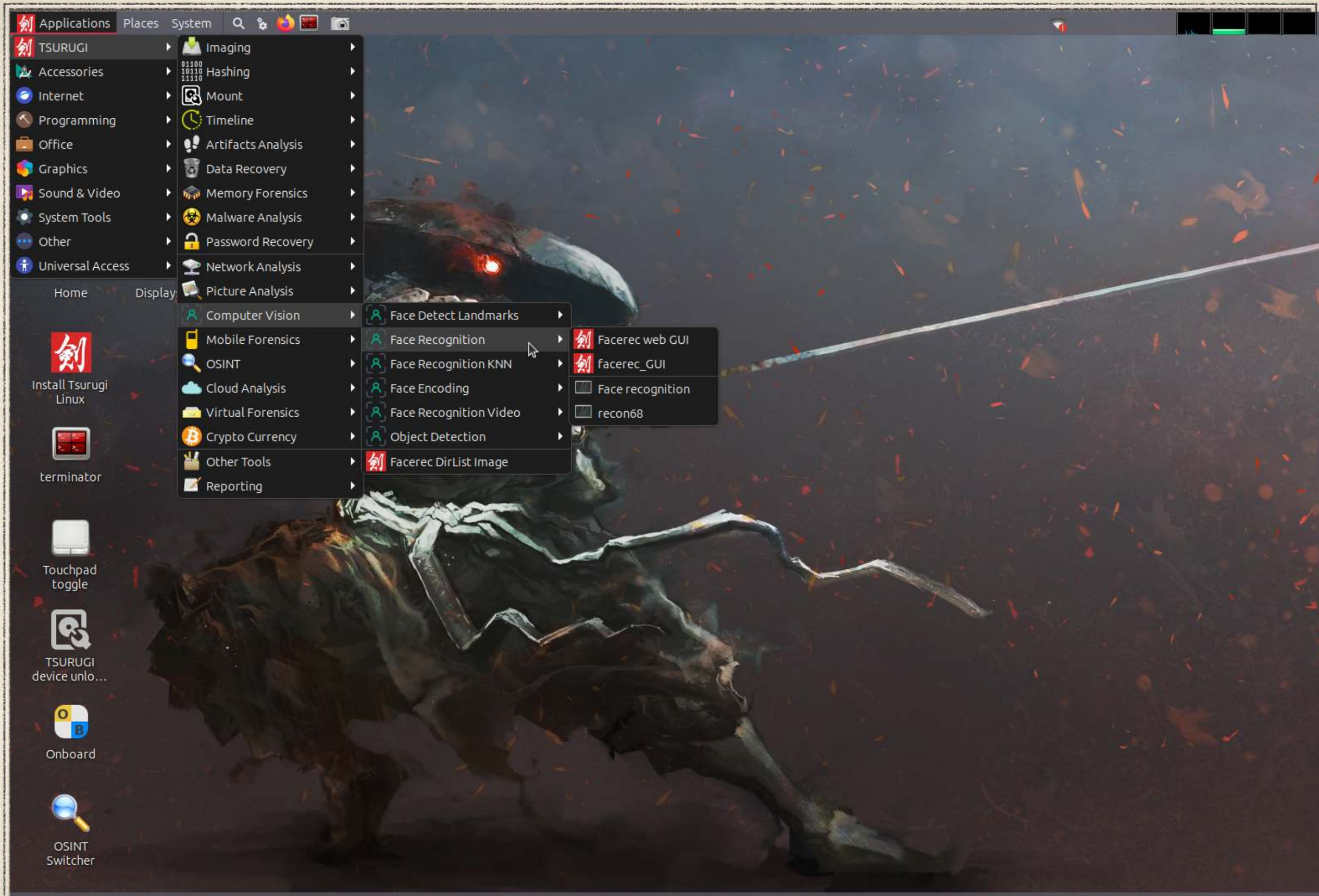
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Face detect Tsurugi
Face detect landmarks Tsurugi
Face landmarks Tsurugi

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[root@tsurugi: /home…


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Facerec DirList Image
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facerec_GUI
Face recognition
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Facerec KNN GUI
LearnArgs KNN
Learn RecognizeArgs KNN

Install Tsurugi Linux

terminator

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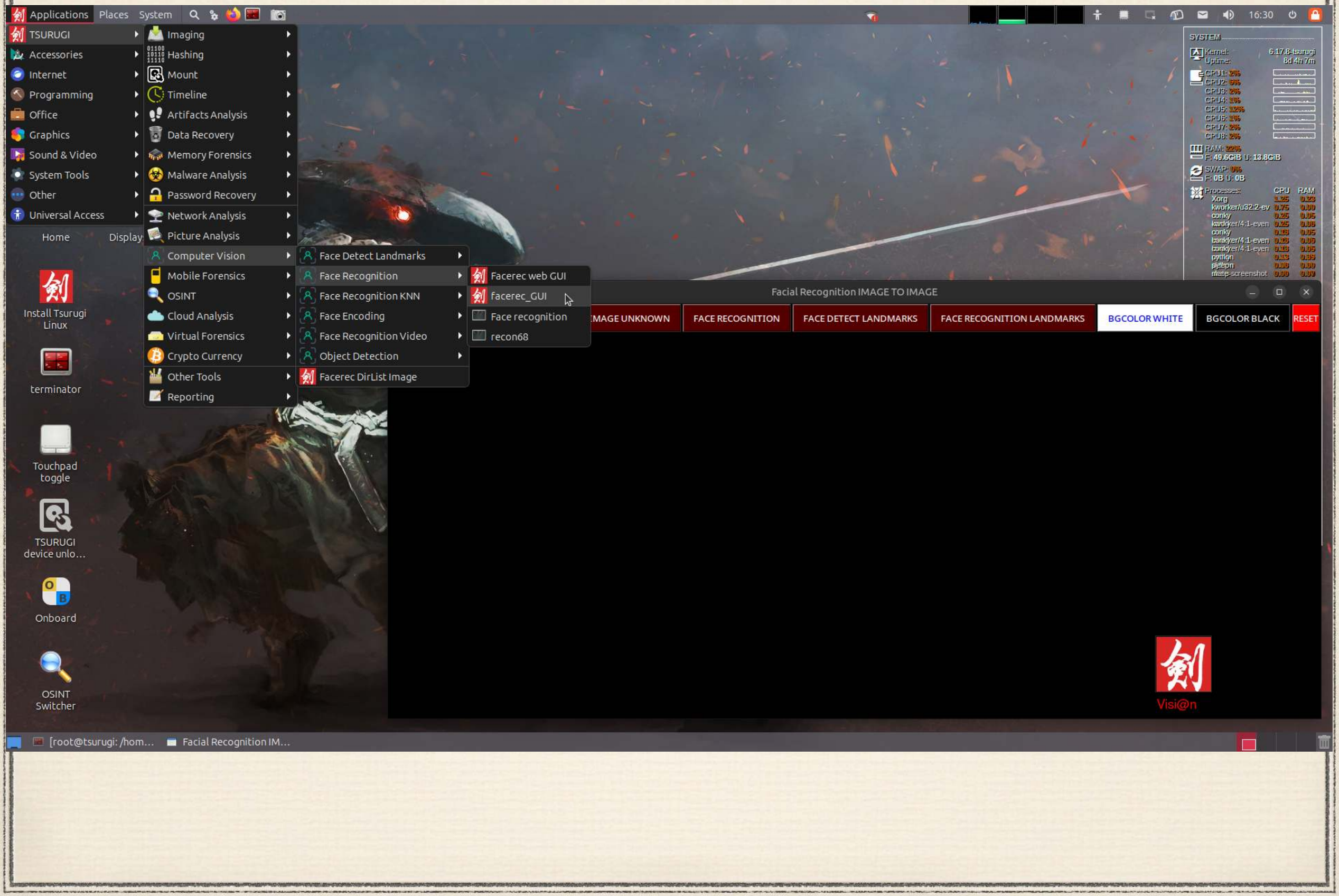
Onboard

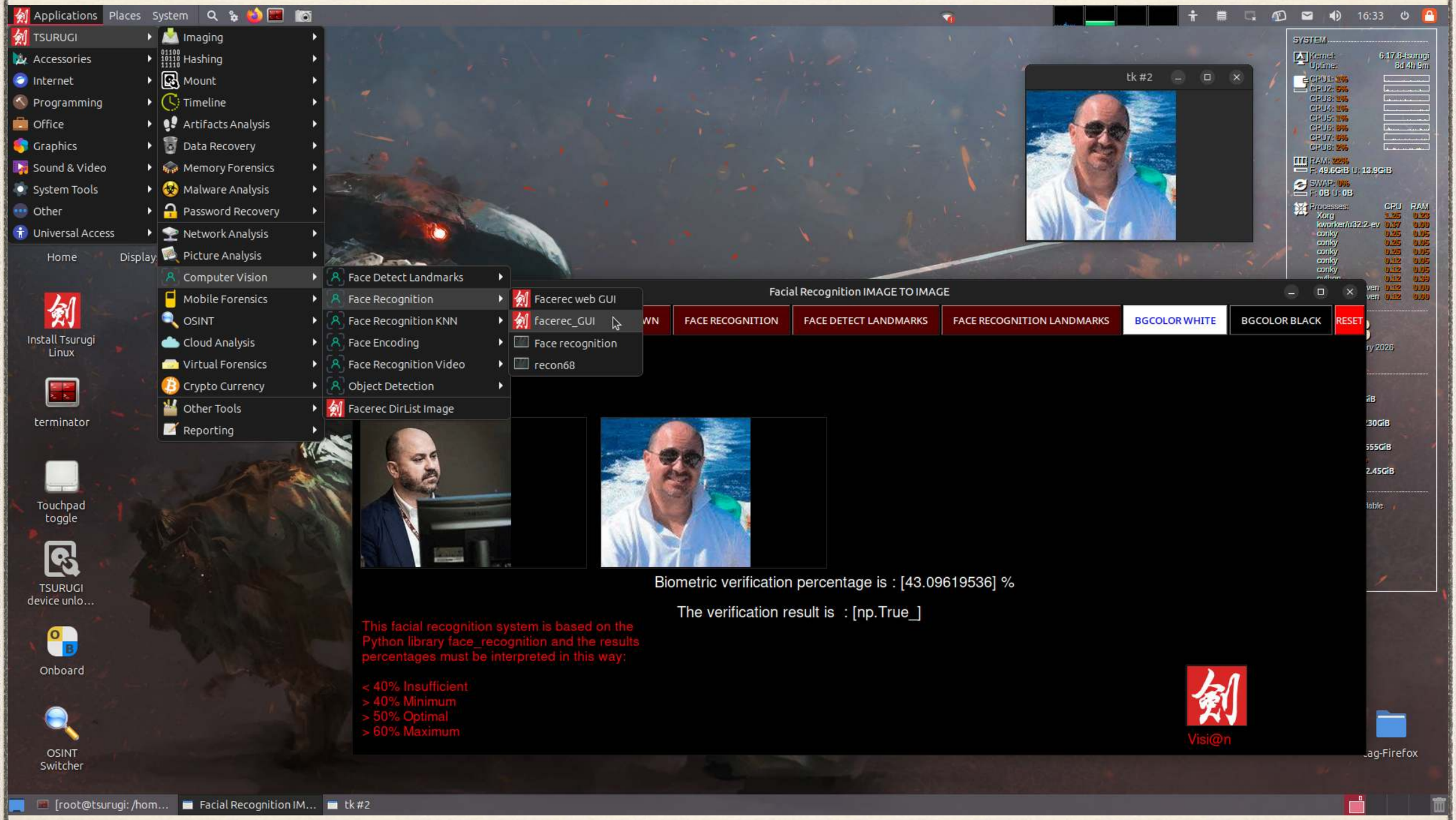
OSINT Switcher

[root@tsurugi: /home…

FACE RECOGNITION

1:1


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Facerec DirList Image
Facerec web GUI
facerec_GUI
Face recognition
recon68
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 7m
RAM: 22%
F: 49.6GiB U: 13.8GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg
kworker/u32:2-ev
conky
kworker/4:1-even
conky
conky
conky
python
mate-screenshot
Facial Recognition IMAGE TO IMAGE
IMAGE UNKNOWN
FACE RECOGNITION
FACE DETECT LANDMARKS
FACE RECOGNITION LANDMARKS
BGCOLOR WHITE
BGCOLOR BLACK
RESET
Visi@n
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Facial Recognition IM…


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Facerec web GUI
facerec_GUI
Face recognition
recon68
tk #2
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 9m
CPU1: 1%
CPU2: 5%
CPU3: 1%
CPU4: 1%
CPU5: 1%
CPU6: 8%
CPU7: 6%
CPU8: 2%
RAM: 22%
F: 49.6GiB U: 13.9GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
Xorg 1.25 0.23
kworker/u32:2-ev 0.37 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.12 0.05
conky 0.12 0.05
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Facial Recognition IMAGE TO IMAGE
FACE RECOGNITION
FACE DETECT LANDMARKS
FACE RECOGNITION LANDMARKS
BGCOLOR WHITE
BGCOLOR BLACK
RESET
Biometric verification percentage is : [43.09619536] %
The verification result is : [np.True_]
This facial recognition system is based on the Python library face_recognition and the results percentages must be interpreted in this way:
< 40% Insufficient
> 40% Minimum
> 50% Optimal
> 60% Maximum
Visi@n
[root@tsurugi: /hom...
Facial Recognition IM...
tk #2

Applications Places System

16:34

tk #2

recognition key points



(x=105, y=217) ~ R:3 G:3 B:3

recognition key points



(x=286, y=146) ~ R:25 G:11 B:11

recognition key points



(x=142, y=216) ~ R:92 G:94 B:89

recognition key points



(x=264, y=68) ~ R:217 G:207 B:218

Facial Recognition IMAGE TO IMAGE

QUIT | OPEN IMAGE KNOWN | OPEN IMAGE UNKNOWN | FACE RECOGNITION | FACE DETECT LANDMARKS | FACE RECOGNITION LANDMARKS | BGCOLOR WHITE | BGCOLOR BLACK | RESET





Biometric percentage of verify is : [43.5892122] %i] %

The result of verify is : [np.True_]}_]

This facial recognition system is based on the Python library face_recognition and the results percentages must be interpreted in this way:

< 40% Insufficient
> 40% Minimum
> 50% Optimal
> 60% Maximum

Visi@n

OSINT Switcher

[root@tsurugi: /hom... | Facial Recognition IM... | tk #2 | recognition key points | recognition key points | recognition key points | recognition key points

FACE RECOGNITION

N:N

Enhanced Multi-Faces by Visi@n

F: 12.2GiB U: 2.45GiB

NETWORK

Network Unavailable

Tsurugi Linux 25.11

tsurugi@tsurugi: ~

tsurugi@tsurugi: ~ 53x12

```
tsurugi@tsurugi:~$ tree 02.computer_vision/
02.computer_vision/
├── 01.known_sources
│   ├── 2026_02_19_16_36_44_person.jpg
│   ├── 2026_02_19_16_36_59_person.jpg
│   ├── 2026_02_19_16_37_00_person.jpg
│   └── 2026_02_19_16_37_01_person.jpg
├── 02.unknown_targets
│   ├── Ant-Abi.jpg
│   ├── Ant-Amelis.jpg
│   ├── Ant-Barca.jpg
│   └── Ant-Hackinbo.jpg
└── 03.reports
```

tay-Firefox

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Face Recognition Video
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Facerec DirList Image

Facerec web GUI
facerec_GUI
Face recognition
recon68

Multi-Face Recognition Results — Mozilla Firefox

/tsurugi/02.computer_vision/03.reports/multiface_index.html

MULTI-FACE RECOGNITION RESULTS

>1% | Total Matches: 12

By Target Name (A-Z)

| Red = Descending

2026_02_19_16_37_01_person.jpg
Face Index: 0

View Original Image

Match Quality:
Good

Distance: 0.4001

Faces Found:
Known: 1, Target: 1

Target Face

Match: 60.0%

Ant-Hackinbo.jpg
Face Index: 0

View Original Image

Legend:

<40% Insufficient | >40% Minimum | >50% Optimal | >60% Maximum

Face landmarks are shown only for matched faces

Enhanced by Visi@n - Multi-Face Recognition System

Multi-Faces Reco

Multi-Faces Recognition HTML

Detects and compares ALL faces in each image with landmarks

OPEN WORK DIRECTORY

MULTI-FACES RECOGNITION >1%

MULTI-FACES RECOGNITION >40%

MULTI-FACES RECOGNITION >45%

MULTI-FACES RECOGNITION >50%

MULTI-FACES RECOGNITION >55%

MULTI-FACES RECOGNITION >60%

Enhanced Multi-Faces by Visi@n

16:43

SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 20m
CPU1: 2%
CPU2: 102%
CPU3: 0%
CPU4: 3%
CPU5: 1%
CPU6: 4%
CPU7: 1%
CPU8: 2%
RAM: 22%
F: 49.2GiB U: 14.3GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 1.50 0.24
kworker/u32:5-ev 0.38 0.00
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.12 0.05
conky 0.12 0.05
python3 0.12 0.38
kworker/1:2-even 0.12 0.00
kworker/5:2-even 0.12 0.00
DATE
16:43
19 February 2026
HD
Root: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Giga-broi: 83%
F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11

tsurugi@tsurugi: ~
tsurugi@tsurugi: ~ 53x12

```
tsurugi@tsurugi:~$ tree 02.computer_vision/
02.computer_vision/
├── 01.known_sources
│   ├── 2026_02_19_16_36_44_person.jpg
│   ├── 2026_02_19_16_36_59_person.jpg
│   ├── 2026_02_19_16_37_00_person.jpg
│   └── 2026_02_19_16_37_01_person.jpg
├── 02.unknown_targets
│   ├── Ant-Abi.jpg
│   ├── Ant-Amelis.jpg
│   ├── Ant-Barca.jpg
│   └── Ant-Hackinbo.jpg
└── 03.reports
```

[root@tsurugi: /hom... tsurugi@tsurugi: ~ Terminal Multi-Faces Recognition Multi-Face Recognitio...

Multi-Face Recognition Results — Mozilla Firefox

File Edit View History Bookmarks Tools Help

Multi-Face Recognition Resul × | unknown_12_Ant-Hackinbo.j × | Ant-Hackinbo.jpg (JPEG Imag × | known_12_2026_02_19_16_ × | 2026_02_19_16_37_01_pers ×

file:///home/tsurugi/02.computer_vision/03.reports/multiface_index.html

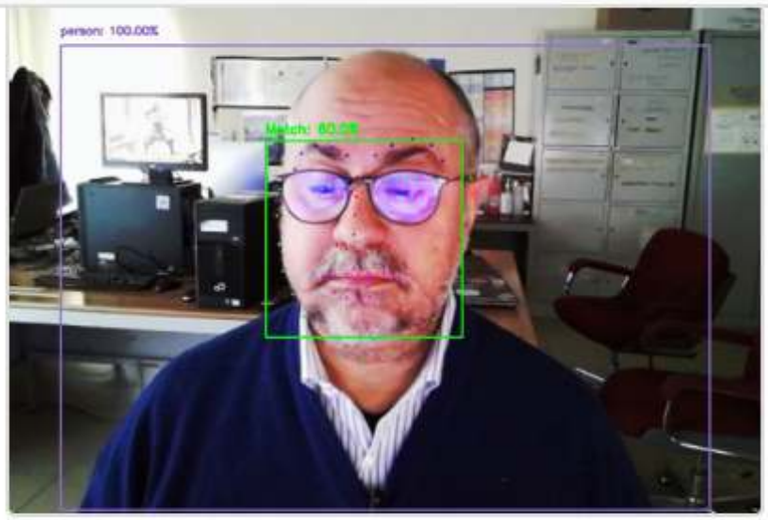
Tsurugi Linux

🔍 MULTI-FACE RECOGNITION RESULTS

Tolerance: >1% | Total Matches: 12

Original Order | By Percentage | By Distance | By Known Name (A-Z) | By Target Name (A-Z)

Click any button again to reverse sort order | Green = Active Sort | Red = Descending



2026_02_19_16_37_01_person.jpg
Face Index: 0

📷 View Original Image

60.0%

Match Quality:
🟡 Good

Distance: 0.4001

Faces Found:
Known: 1, Target: 1

Target Face



Ant-Hackinbo.jpg
Face Index: 0

📷 View Original Image

Legend:

🔴 <40% Insufficient | 🟠 >40% Minimum | 🟡 >50% Optimal | 🟢 >60% Maximum

Face landmarks are shown only for matched faces

Enhanced by Visi@n - Multi-Face Recognition System

2026_02_19_16_37_01_person.jpg (JPEG Image, 1024 × 768 pixels) — Mozilla Firefox

File Edit View History Bookmarks Tools Help

Multi-Face Recognition Resul × | unknown_12_Ant-Hackinbo.j × | Ant-Hackinbo.jpg (JPEG Imag × | known_12_2026_02_19_16_ × | 2026_02_19_16_37_01_pers ×

file:///home/tsurugi/02.computer_vision/03.reports/originals_known/2026_02_19_16_37_01_person.jpg

Tsurugi Linux



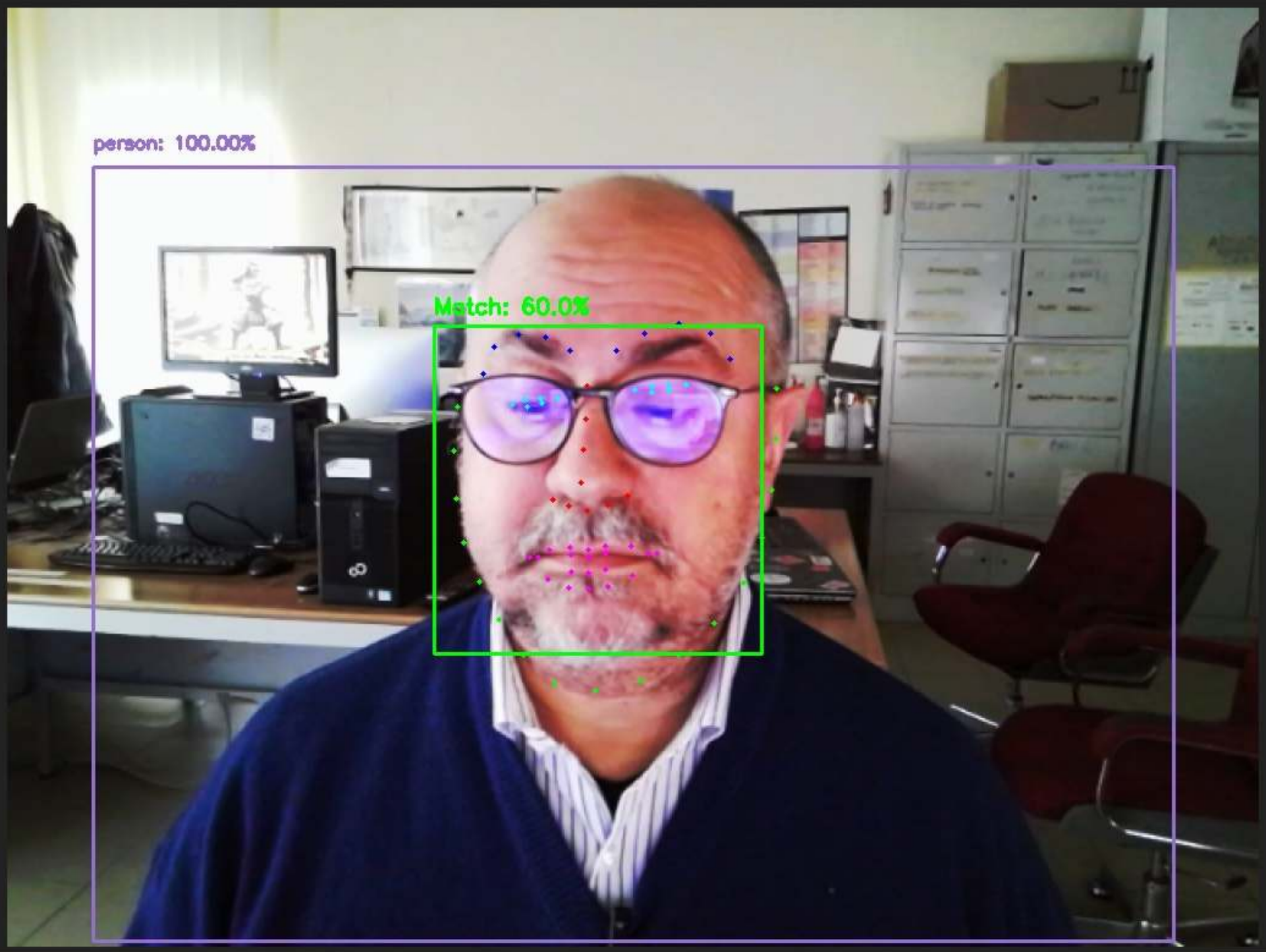
known_12_2026_02_19_16_37_01_person.jpg (JPEG Image, 1024 × 768 pixels) — Mozilla Firefox

File Edit View History Bookmarks Tools Help

Multi-Face Recognition Resul × | unknown_12_Ant-Hackinbo.j × | Ant-Hackinbo.jpg (JPEG Imag × | known_12_2026_02_19_16_ × | 2026_02_19_16_37_01_pers ×

file:///home/tsurugi/02.computer_vision/03.reports/landmarks/known_12_2026_02_19_16_37_01_perso

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Ant-Hackinbo.jpg (JPEG Image, 299 × 168 pixels) — Mozilla Firefox

File Edit View History Bookmarks Tools Help

Multi-Face Recognition Resul × | unknown_12_Ant-Hackinbo.j × | Ant-Hackinbo.jpg (JPEG Imag × | known_12_2026_02_19_16_ × | 2026_02_19_16_37_01_pers ×

file:///home/tsurugi/02.computer_vision/03.reports/originals_targets/Ant-Hackinbo.jpg

Tsurugi Linux



Multi-Faces Reco

Multi-Faces Recognition HTML

Detects and compares ALL faces in each image with landmarks

OPEN WORK DIRECTORY

MULTI-FACES RECOGNITION >1%

MULTI-FACES RECOGNITION >40%

MULTI-FACES RECOGNITION >45%

MULTI-FACES RECOGNITION >50%

MULTI-FACES RECOGNITION >55%

MULTI-FACES RECOGNITION >60%

Enhanced Multi-Faces by Visi@n

SYSTEM

Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 21m

CPU1: 3%
CPU2: 0%
CPU3: 1%
CPU4: 6%
CPU5: 1%
CPU6: 2%
CPU7: 5%
CPU8: 7%

RAM: 22%
F: 49.1GiB U: 14.3GiB

SWAP: 0%
F: 0B U: 0B

Processes:	CPU	RAM
Xorg	1.38	0.24
kworker/u32:4-ev	0.50	0.00
conky	0.25	0.05
conky	0.25	0.05
conky	0.25	0.05
conky	0.25	0.05
python	0.13	0.09
kworker/3:2-even	0.13	0.00
kworker/7:2-even	0.13	0.00
kworker/1:1-even	0.13	0.00

DATE

16:44
19 February 2026

HD

Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Gico-broi: 83%
F: 12.2GiB U: 2.45GiB

NETWORK

Network Unavailable

Tsurugi Linux 25.11

tsurugi@tsurugi: ~

tsurugi@tsurugi: ~ 53x12

```
tsurugi@tsurugi:~$ tree 02.computer_vision/
02.computer_vision/
├── 01.known_sources
│   ├── 2026_02_19_16_36_44_person.jpg
│   ├── 2026_02_19_16_36_59_person.jpg
│   ├── 2026_02_19_16_37_00_person.jpg
│   └── 2026_02_19_16_37_01_person.jpg
├── 02.unknown_targets
│   ├── Ant-Abi.jpg
│   ├── Ant-Amelis.jpg
│   ├── Ant-Barca.jpg
│   └── Ant-Hackinbo.jpg
└── 03.reports
```

[root@tsurugi: /hom… | tsurugi@tsurugi: ~ | Terminal | Multi-Faces Recognition | Ant-Hackinbo.jpg (JP…

OBJECT DETECTION

Applications Places System

- TSURUGI
- Accessories
- Internet
- Programming
- Office
- Graphics
- Sound & Video
- System Tools
- Other
- Universal Access

Home Display

- Imaging
- Hashing
- Mount
- Timeline
- Artifacts Analysis
- Data Recovery
- Memory Forensics
- Malware Analysis
- Password Recovery
- Network Analysis
- Picture Analysis
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- OSINT
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- Other Tools
- Reporting

- Face Detect Landmarks
- Face Recognition
- Face Recognition KNN
- Face Encoding
- Face Recognition Video
- Object Detection
- Facerec DirList Image

- Object Detection GUI
- Object Detection Live
- Object Detection Live Write Video
- Object Detection Video
- Object Detection Video Write Video

Install Tsurugi Linux

db

terminator

recogniti

Touchpad toggle

matching

TSURUGI device unlo…

Onboard

Applications Places System

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Object Detection
Facerec DirList Image

Object Detection GUI
Object Detection Live
Object Detection Live Write Video
Object Detection Video
Object Detection Video Write Video

Terminal

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terminator
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TSURUGI device unlo…
Onboard
OSINT Switcher

db
matching
Screenshot at 2026-02-19 …

Object Detection - Tsurugi Linux

Object Detection Video files & realtime

WEBCAM DETECTION

START WEBCAM DETECTION

STOP WEBCAM

VIDEO INPUT DETECTION

SELECT INPUT VIDEO

No file selected

Width Resolution: 1024

START VIDEO DETECTION

STOP VIDEO DETECTION

VIDEO OUTPUT

SELECT OUTPUT VIDEO

No file selected

VIDEO TO VIDEO DETECTION

STOP VIDEO TO VIDEO

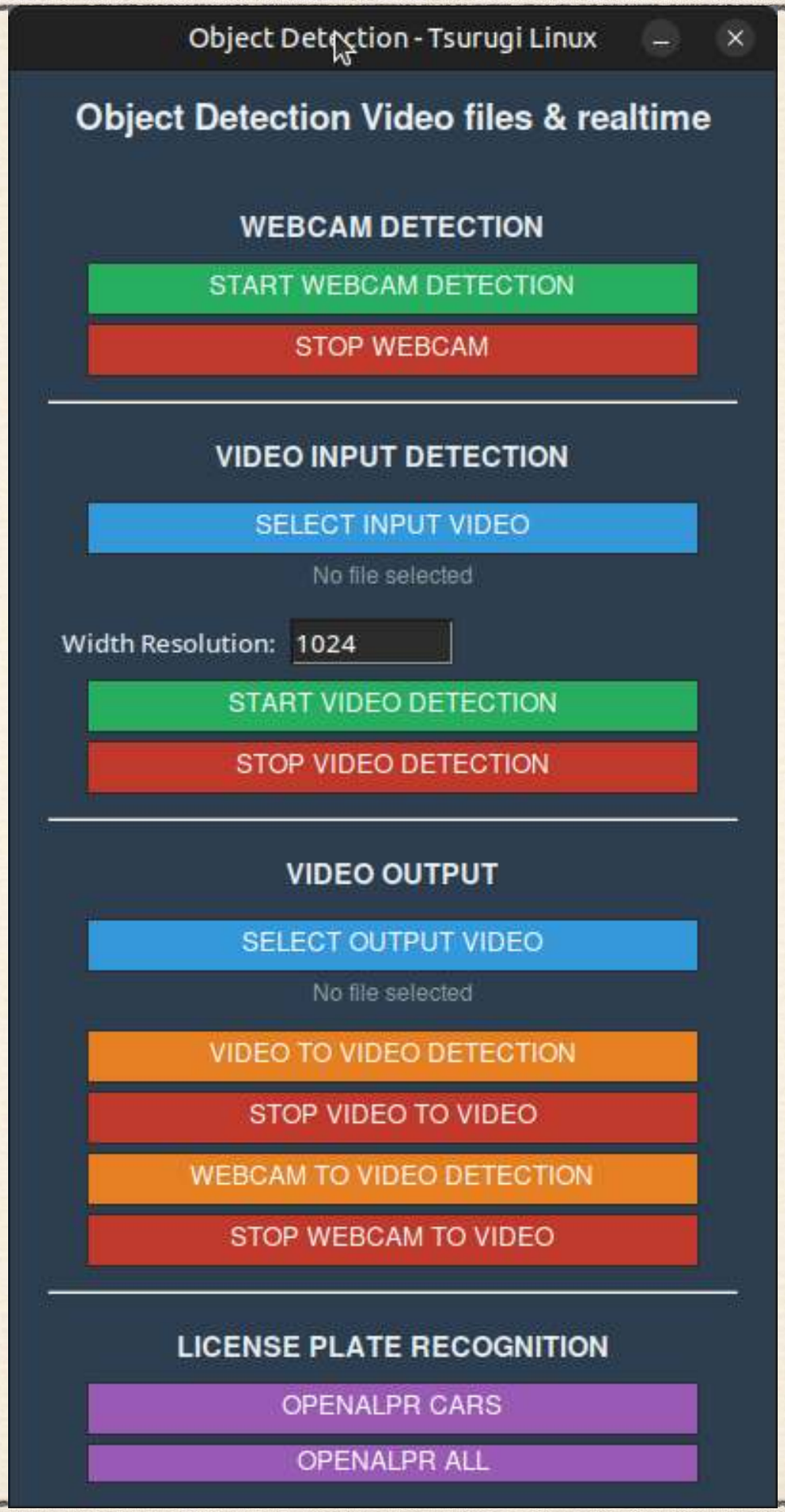
WEBCAM TO VIDEO DETECTION

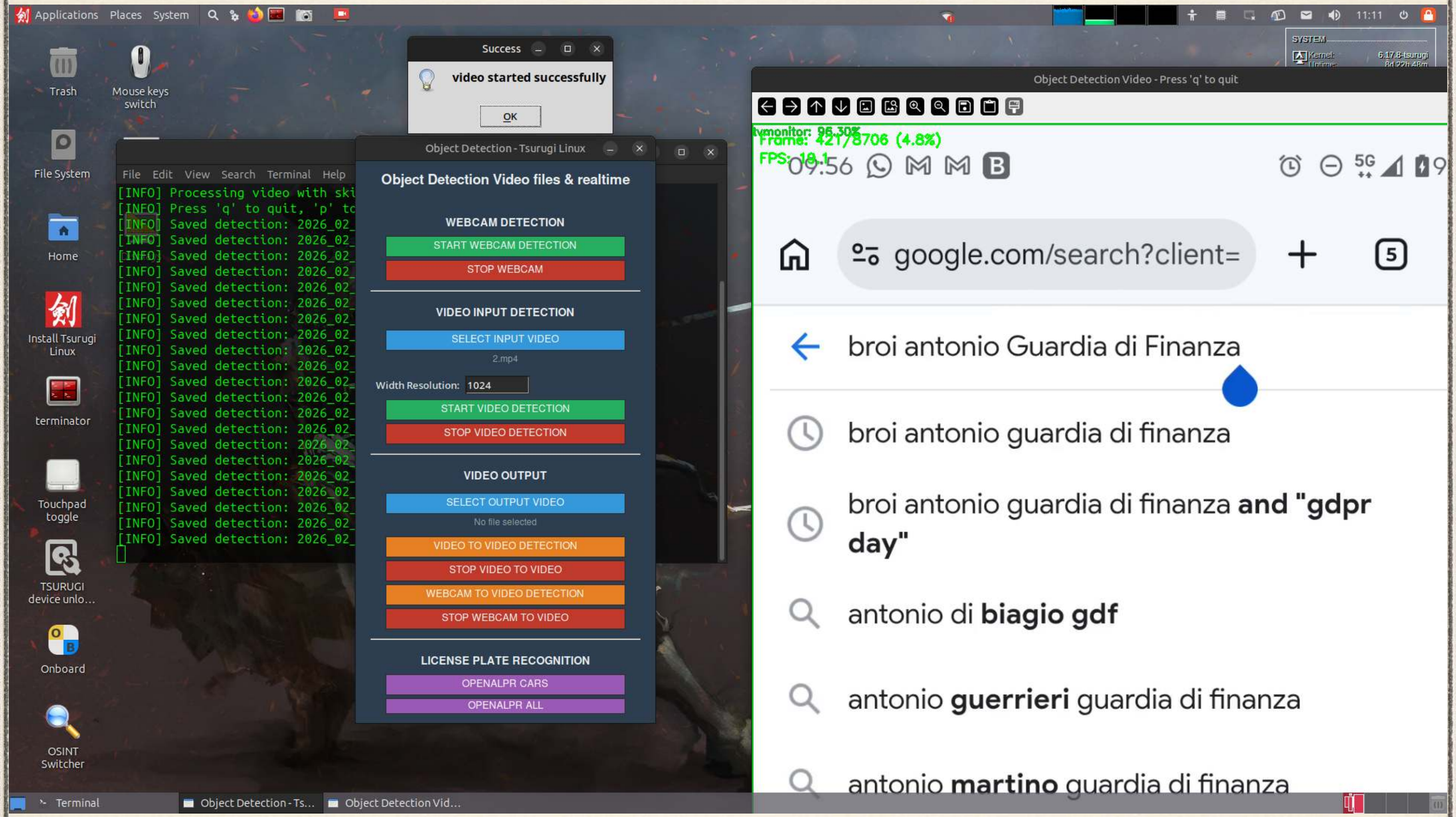
STOP WEBCAM TO VIDEO

LICENSE PLATE RECOGNITION

OPENALPR CARS

OPENALPR ALL


Object Detection - Tsurugi Linux
Object Detection Video files & realtime
WEBCAM DETECTION
START WEBCAM DETECTION
STOP WEBCAM
VIDEO INPUT DETECTION
SELECT INPUT VIDEO
No file selected
Width Resolution: 1024
START VIDEO DETECTION
STOP VIDEO DETECTION
VIDEO OUTPUT
SELECT OUTPUT VIDEO
No file selected
VIDEO TO VIDEO DETECTION
STOP VIDEO TO VIDEO
WEBCAM TO VIDEO DETECTION
STOP WEBCAM TO VIDEO
LICENSE PLATE RECOGNITION
OPENALPR CARS
OPENALPR ALL


Applications Places System
11:11
Trash
Mouse keys switch
File System
Home
Install Tsurugi Linux
terminator
Touchpad toggle
TSURUGI device unlo...
Onboard
OSINT Switcher
Success
video started successfully
OK
File Edit View Search Terminal Help
[INFO] Processing video with ski
[INFO] Press 'q' to quit, 'p' to
[INFO] Saved detection: 2026_02_
Object Detection - Tsurugi Linux
Object Detection Video files & realtime
WEBCAM DETECTION
START WEBCAM DETECTION
STOP WEBCAM
VIDEO INPUT DETECTION
SELECT INPUT VIDEO
2.mp4
Width Resolution: 1024
START VIDEO DETECTION
STOP VIDEO DETECTION
VIDEO OUTPUT
SELECT OUTPUT VIDEO
No file selected
VIDEO TO VIDEO DETECTION
STOP VIDEO TO VIDEO
WEBCAM TO VIDEO DETECTION
STOP WEBCAM TO VIDEO
LICENSE PLATE RECOGNITION
OPENALPR CARS
OPENALPR ALL
Object Detection Video - Press 'q' to quit
Frame: 421/8706 (4.8%)
FPS: 18.1
google.com/search?client=
broi antonio Guardia di Finanza
broi antonio guardia di finanza
broi antonio guardia di finanza and "gdpr day"
antonio di biagio gdf
antonio guerrieri guardia di finanza
antonio martino guardia di finanza
Terminal
Object Detection - Ts...
Object Detection Vid...

Terminal

File Edit View Search Terminal Help

```
==================================================
[INFO] VIDEO PROCESSING STATISTICS:
[INFO] Input file: /home/tsurugi/02.computer_vision/04.video2ocr/01.video/2.mp4
[INFO] Elapsed time: 33.75 seconds
[INFO] Approx. FPS: 19.56
[INFO] Total frames in video: 660
[INFO] Frames processed: 660
[INFO] Frames skipped: 0
[INFO] Detections per class:
  - bus: 16 screenshots
  - car: 2 screenshots
  - person: 14 screenshots
==================================================
[INFO] Application terminated successfully
```

MULTI FACE RECOGNITION IMAGES DB

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Face Recognition Video
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Facerec DirList Image

Facerec KNN GUI
LearnArgs KNN
Learn RecognizeArgs KNN

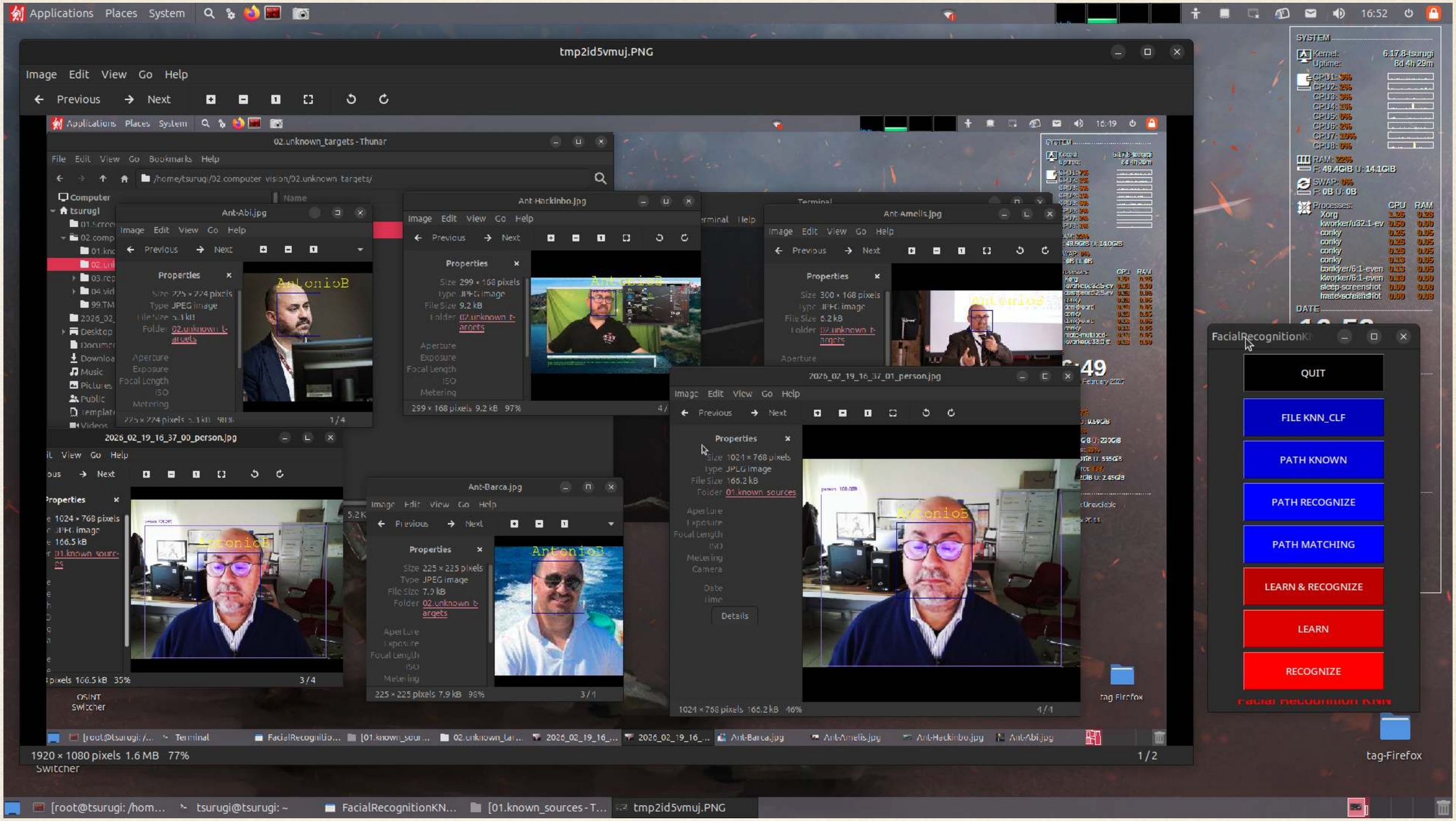
Terminal
File Edit View Search Terminal Help

FacialRecognitionKN

QUIT
FILE KNN_CLF
PATH KNOWN
PATH RECOGNIZE
PATH MATCHING
LEARN & RECOGNIZE
LEARN
RECOGNIZE

Facial Recognition KNN

rugi: /hom... Terminal FacialRecognitionKN...


Applications Places System
16:52
tmp2id5vmuj.PNG
Image Edit View Go Help
Previous Next
02.unknown_targets - Thunar
Ant-Abi.jpg
Ant-Hackinho.jpg
Ant-Amelis.jpg
2026_02_19_16_37_01_person.jpg
2026_02_19_16_37_00_person.jpg
Ant-Barca.jpg
FacialRecognitionKNN
QUIT
FILE KNN_CLF
PATH KNOWN
PATH RECOGNIZE
PATH MATCHING
LEARN & RECOGNIZE
LEARN
RECOGNIZE
OSINT Switcher
tag-Firefox
1920 × 1080 pixels 1.6 MB 77%
1 / 2
[root@tsurugi: /hom...
tsurugi@tsurugi: ~
FacialRecognitionKN...
[01.known_sources - T...
tmp2id5vmuj.PNG

tmp2id5vmuj.PNG

SYSTEM
Kernel: 6.17.8-ts
Uptime: 8d 4h
CPU1: 3%
CPU2: 2%
CPU3: 3%
CPU4: 1%
CPU5: 0%
CPU6: 2%
CPU7: 10%
CPU8: 0%
RAM: 22%
F: 49.4GiB U: 14.1GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU
Xorg 1.26
kworker/u32:1-ev 0.50
conky 0.25
conky 0.25
conky 0.25
conky 0.13
conky/er/6:1-even 0.13
kworker/6:1-even 0.13
sleep screenshot 0.00
mate-screenshot 0.00
DATE

Ant-Hackinbo.jpg
View Go Help
Next
Properties
Size 300 × 168 pixels
Type JPEG image
File Size 6.2 kB
Folder 02_unknown_targets
Aperture

Terminal
Help

Ant-Amelis.jpg
Image Edit View Go Help
Previous Next
Properties
Size 300 × 168 pixels
Type JPEG image
File Size 6.2 kB
Folder 02_unknown_targets
Aperture

2026_02_19_16_37_01_person.jpg
Image Edit View Go Help
Previous Next
Properties
Size 1021 × 768 pixels
Type JPEG image
File Size 166.2 kB
Folder 01_known_sources
Aperture
Exposure
Focal Length
ISO
Metering
Camera
Date
Time
Details
AntonioB
person 100.00%

Ant-Barca.jpg
Help
AntonioB
9.2 kB 97%
3 / 1

FacialRecognitionKn
QUIT
FILE KNN_CLF
PATH KNOWN
PATH RECOGNIZE
PATH MATCHING
LEARN & RECOGNIZE
LEARN
RECOGNIZE
Facial Recognition KNN

February 2026
ng Firefox

MULTI FACE RECOGNITION WEBCAM DB

ations Places System

Mouse keys switch

Terminal

File Edit View Search Terminal Help

```
/home/tsurugi/02.computer_vision/db.pickle
/home/tsurugi/Desktop/db
[INFO] quantifying faces...
[INFO] processing image 1/5
[INFO] processing image 2/5
[INFO] processing image 3/5
[INFO] processing image 4/5
[INFO] processing image 5/5
[INFO] serializing encodings...
db
```

recognition

matching

Screenshot at 2026-02-19 ...

FacialRecognit

Facial Recognition Encodings Dataset

QUIT

INSERT DATASET PERSON

BUILD FACE DATASET

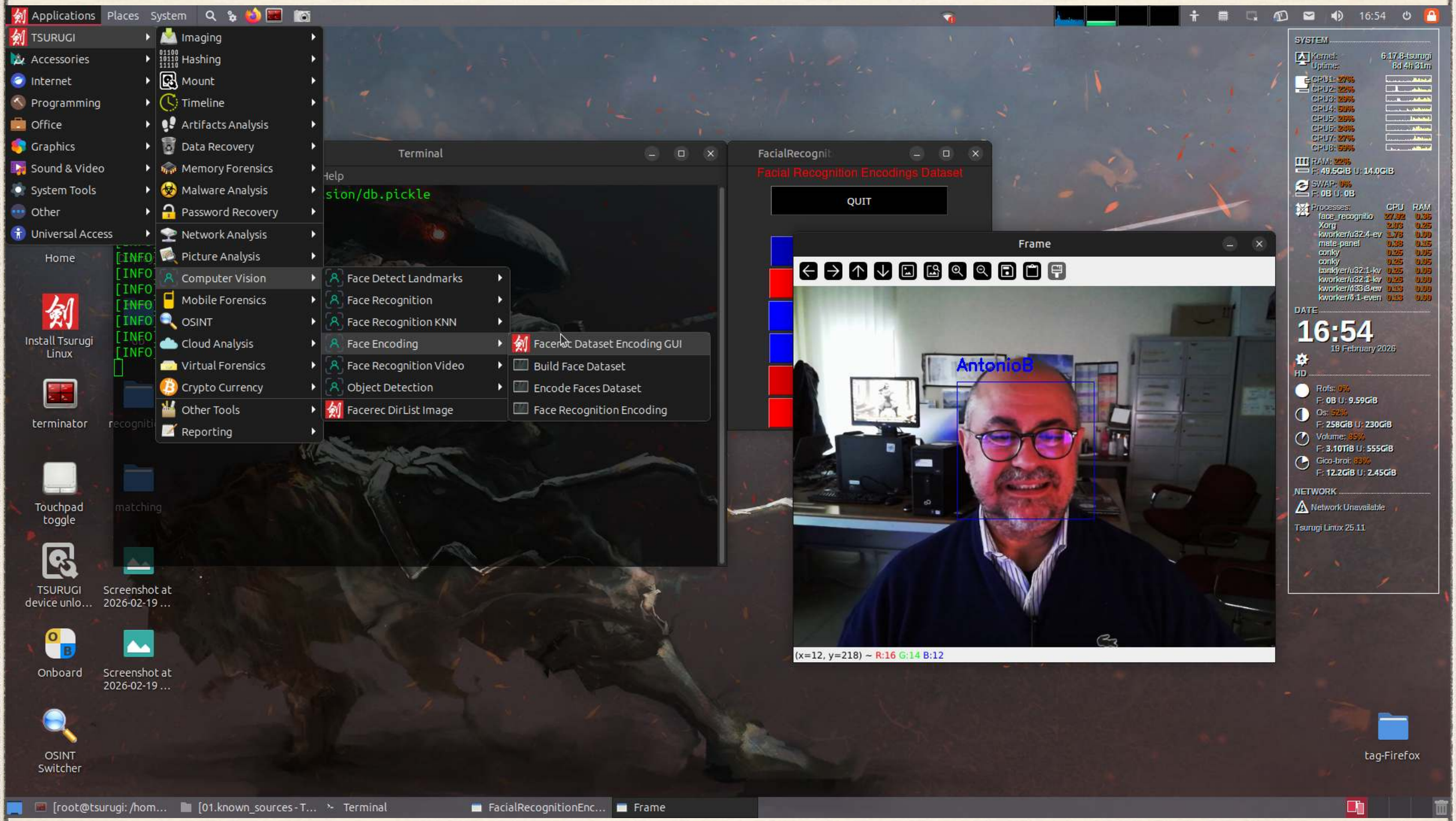
INSERT ENCODING PICKLE

INSERT DATASET

ENCODING

FACE RECOGNITION

Visi@n


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16:54
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Face Recognition Video
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Facerec DirList Image
Facerec Dataset Encoding GUI
Build Face Dataset
Encode Faces Dataset
Face Recognition Encoding
Terminal
Help
sion/db.pickle
[INFO]
FacialRecognit
Facial Recognition Encodings Dataset
QUIT
Frame
AntonioB
(x=12, y=218) ~ R:16 G:14 B:12
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 31m
CPU1: 27%
CPU2: 22%
CPU3: 29%
CPU4: 50%
CPU5: 28%
CPU6: 24%
CPU7: 27%
CPU8: 59%
RAM: 22%
F: 49.5GiB U: 14.0GiB
SWAP: 0%
F: 0B U: 0B
Processes:
CPU
RAM
face_recognitio 27.92 0.35
Xorg 2.03 0.25
kworker/u32:4-ev 1.78 0.00
mate-panel 0.38 0.15
conky 0.25 0.05
conky 0.25 0.05
conkyrc/u32:1-kv 0.25 0.05
kworker/u32:1-kv 0.25 0.00
kworker/u33:2-ev 0.13 0.00
kworker/9:1-even 0.13 0.00
DATE
16:54
19 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Gico-broi: 83%
F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
Home
Install Tsurugi Linux
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TSURUGI device unlo...
Screenshot at 2026-02-19 ...
Onboard
Screenshot at 2026-02-19 ...
OSINT Switcher
tag-Firefox
[root@tsurugi: /hom...
[01.known_sources - T...
Terminal
FacialRecognitionEnc...
Frame

Terminal

elp

sion/db.pickle

Face Detect Landmarks

Face Recognition

Face Recognition KNN

Face Encoding

Face Recognition Video

Object Detection

Facerec DirList Image

Facerec Dataset Encoding GUI

Build Face Dataset

Encode Faces Dataset

Face Recognition Encoding

FacialRecognit

Facial Recognition Encodings Dataset

QUIT

Frame

AntonioB

(x=12, y=218) ~ R:16 G:14 B:12

Uptime:

CPU1: 27%
CPU2: 22%
CPU3: 29%
CPU4: 50%
CPU5: 26%
CPU6: 24%
CPU7: 27%
CPU8: 59%

RAM: 22%
F: 49.5GiB U:

SWAP: 0%
F: 0B U: 0B

Processes:
face_recogn
Xorg
kworker/u32
mate-panel
conky
conky
kworker/u32
kworker/u32
kworker/u33
kworker/9:1-

DATE

16:54

19 Febru

HD

Rofs: 0%
F: 0B U: 9.59

Os: 52%
F: 258GiB U

Volume: 85%
F: 3.10TiB U

Gico-broi: 83
F: 12.2GiB U

NETWORK

Network Unav

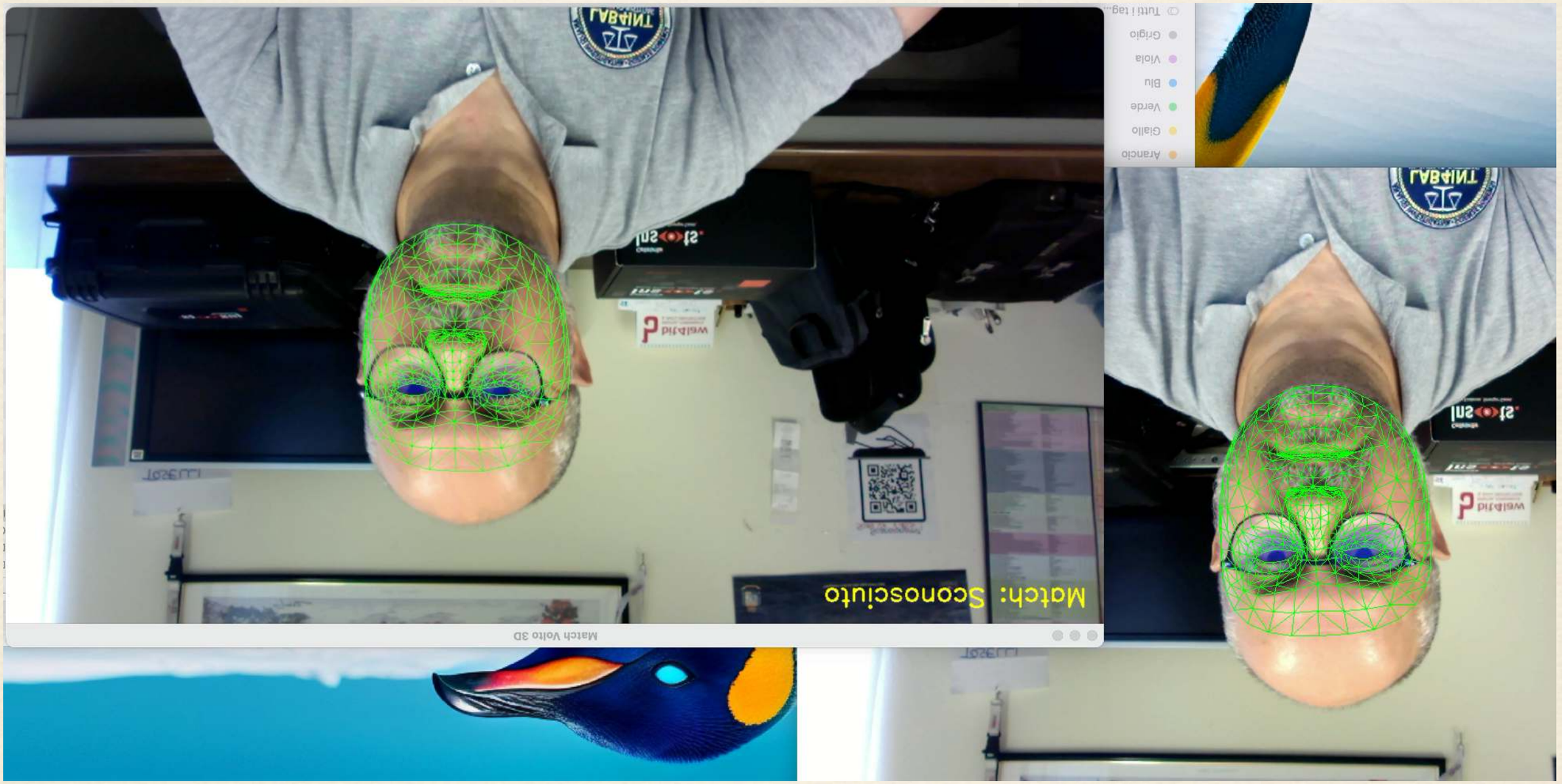
Tsurugi Linux 25.11

Terminal

FacialRecognitionEnc...

Frame

2D ?? 0R 3D ??


Match: Sconosciuto
Match Volto 3D
Arancio
Giallo
Verde
Blu
Viola
Grigio
Tutti i tag...

Comparatore Identificazione Persone - Database

Identificazione Persone

DATABASE

(Nome file = Nome persona)

Seleziona Database

1 immagini

Indicizza Database

✓ 1 persone

RICERCA

(Volti da identificare)

Directory Ricerca

190 immagini

OPZIONI

Soglia %: 60

(≥60% consigliato)

AZIONI

IDENTIFICA

STOP

CSV

Report

PROGRESS

Completato! 80 identificati

STATS

Database: 1
Identificati: 80
Alta: 38
Media: 42

IDENTIFICAZIONE CORRENTE

TARGET - Originale



MATCH - Originale



TARGET - Con ID



anto.mp4-0001.png

MATCH - Landmarks



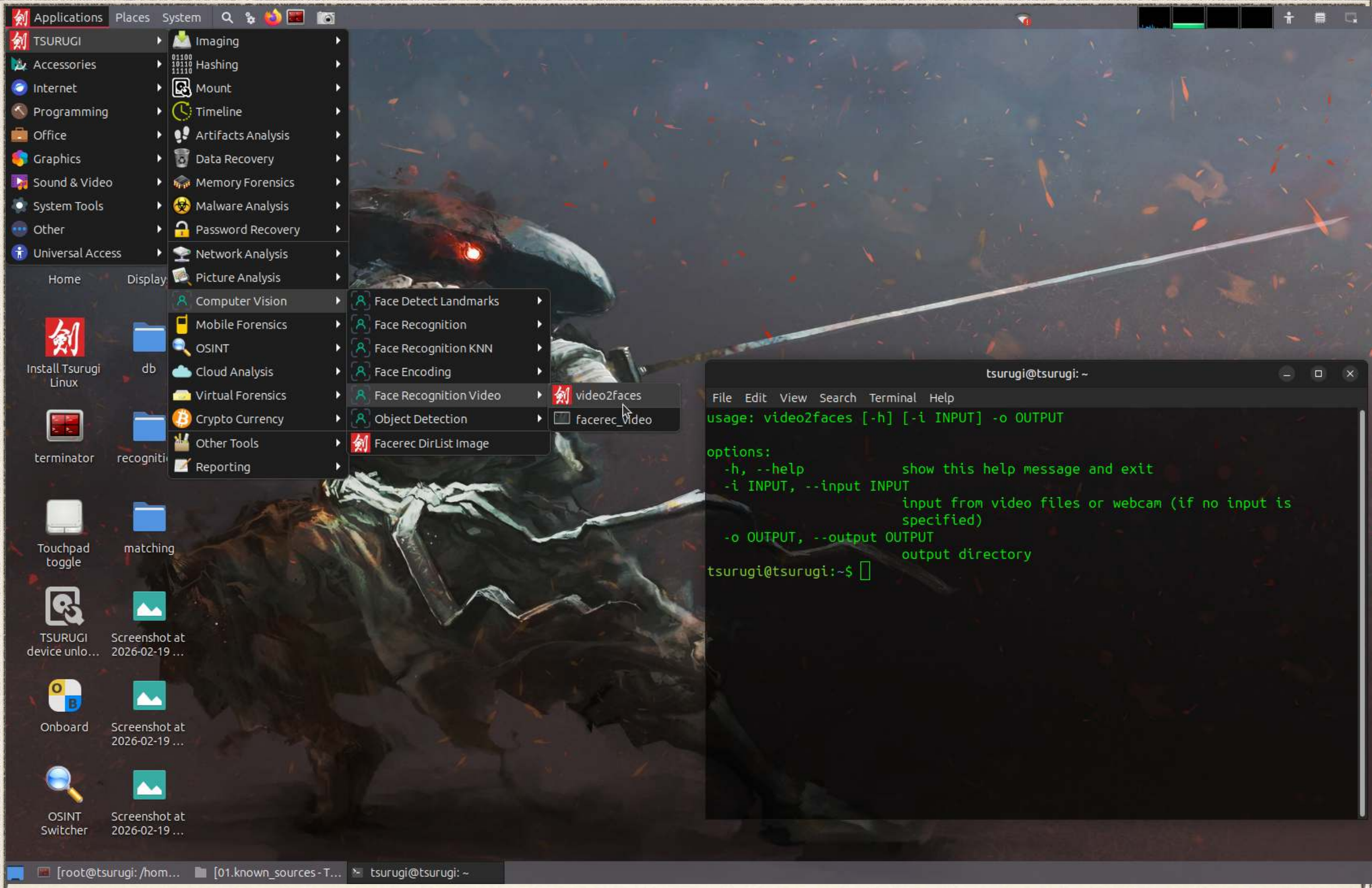
Antonio

69.43% - MEDIA CONFIDENZA

RISULTATI IDENTIFICAZIONE

File Target	Persona Identificata	Comp %	Status
anto.mp4-0001.png	Antonio	69.43%	MEDIA
anto.mp4-0002.png	Antonio	69.74%	MEDIA
anto.mp4-0003.png	Antonio	69.92%	MEDIA
anto.mp4-0004.png	Antonio	70.01%	MEDIA
anto.mp4-0005.png	Antonio	70.04%	MEDIA
anto.mp4-0006.png	Antonio	69.97%	MEDIA
anto.mp4-0007.png	Antonio	70.53%	MEDIA
anto.mp4-0008.png	Antonio	70.64%	MEDIA
anto.mp4-0009.png	Antonio	70.99%	MEDIA
anto.mp4-0010.png	Antonio	71.48%	MEDIA
anto.mp4-0011.png	Antonio	72.08%	MEDIA
anto.mp4-0012.png	Antonio	73.08%	MEDIA
anto.mp4-0013.png	Antonio	73.70%	MEDIA
anto.mp4-0014.png	Antonio	74.48%	MEDIA
anto.mp4-0015.png	Antonio	75.92%	MEDIA
anto.mp4-0016.png	Antonio	76.55%	MEDIA
anto.mp4-0017.png	Antonio	77.34%	MEDIA
anto.mp4-0018.png	Antonio	78.81%	MEDIA
anto.mp4-0019.png	Antonio	79.70%	MEDIA
anto.mp4-0020.png	Antonio	80.72%	ALTA
anto.mp4-0021.png	Antonio	82.01%	ALTA
anto.mp4-0022.png	Antonio	83.11%	ALTA
anto.mp4-0023.png	Antonio	84.08%	ALTA

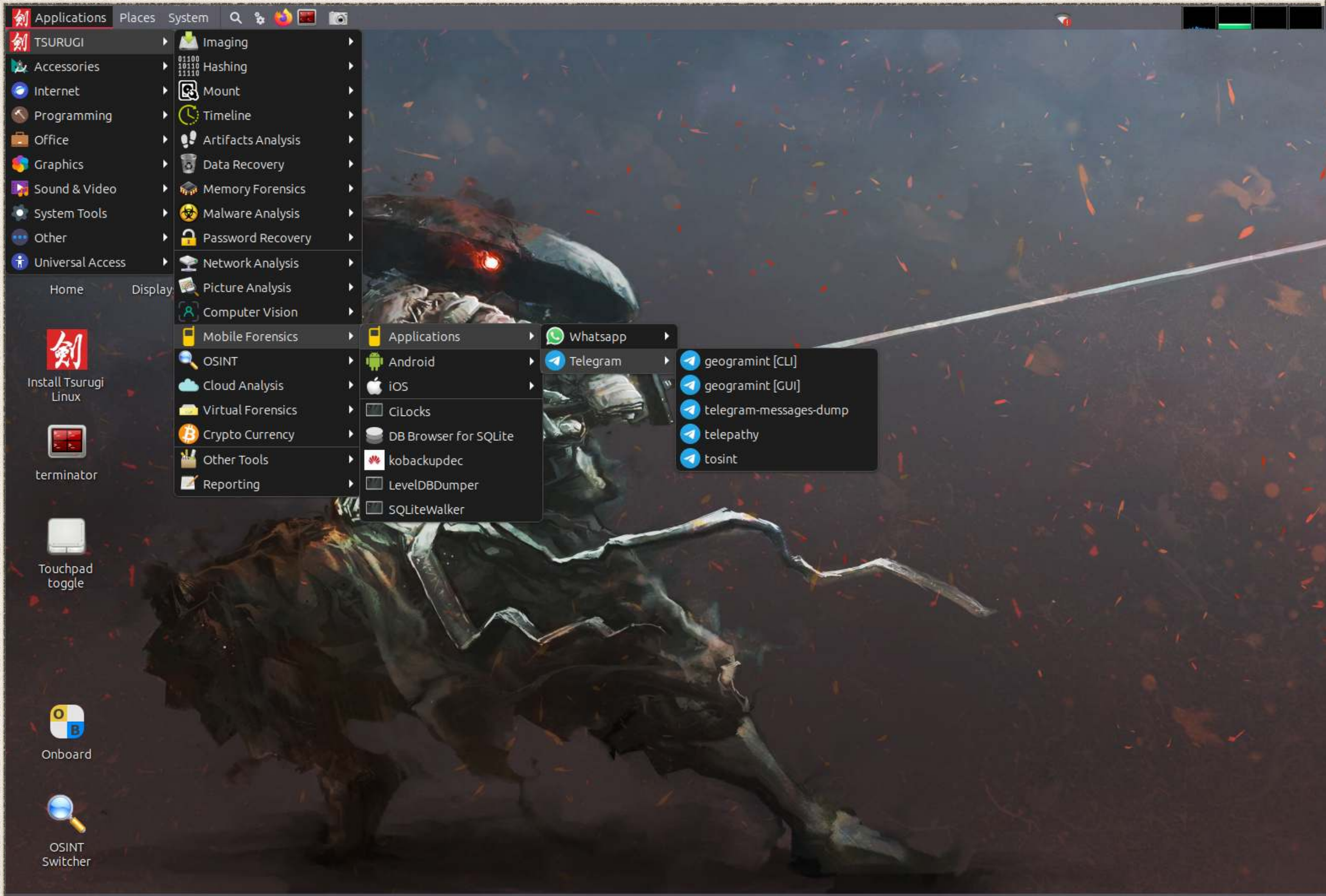
VIDEO2FACES

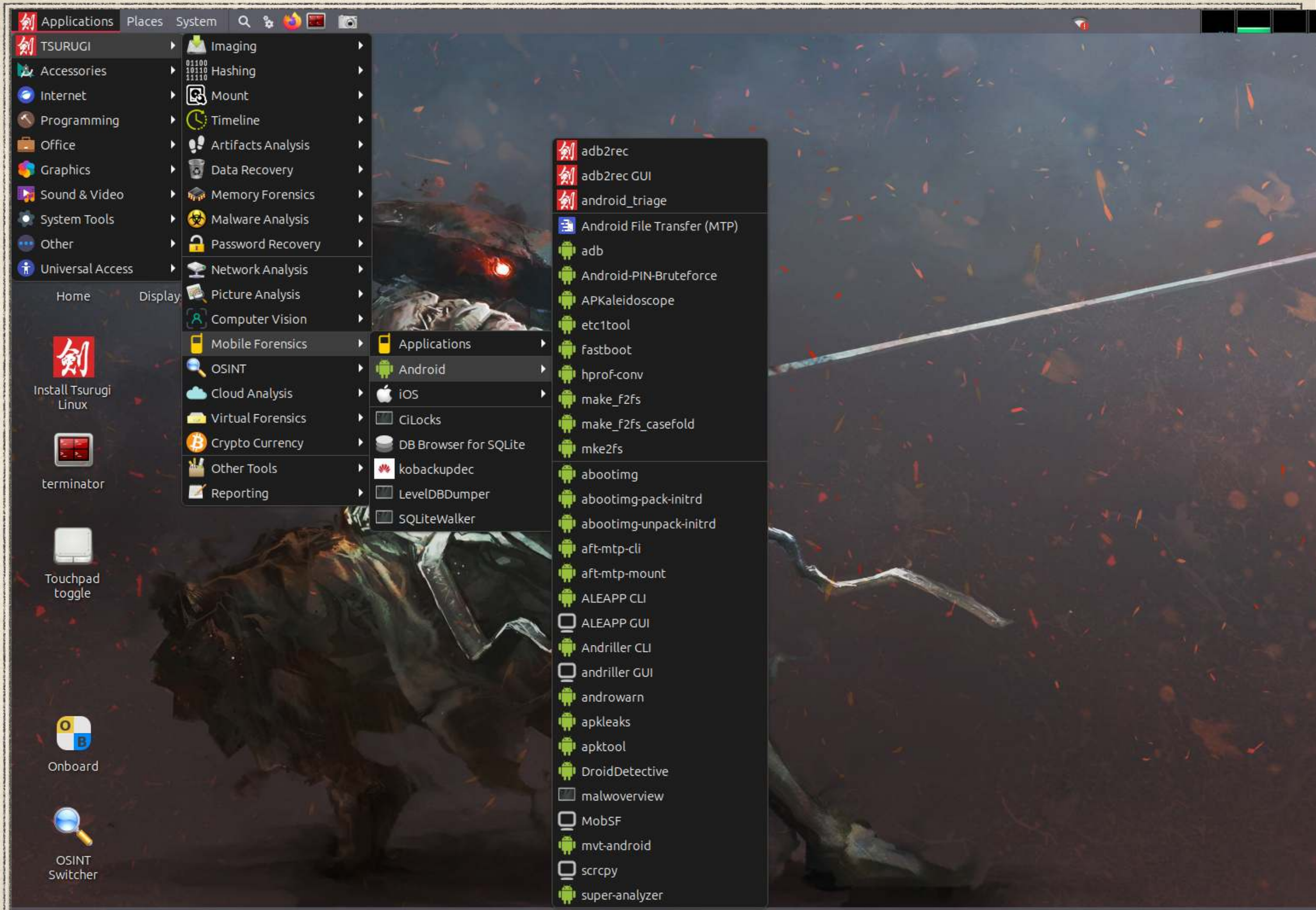

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Face Encoding
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Facerec DirList Image
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facerec_video
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Screenshot at 2026-02-19 …
Onboard
Screenshot at 2026-02-19 …
OSINT Switcher
Screenshot at 2026-02-19 …
tsurugi@tsurugi: ~
File Edit View Search Terminal Help
usage: video2faces [-h] [-i INPUT] -o OUTPUT
options:
-h, --help show this help message and exit
-i INPUT, --input INPUT
input from video files or webcam (if no input is specified)
-o OUTPUT, --output OUTPUT
output directory
tsurugi@tsurugi:~$
[root@tsurugi: /hom…
[01.known_sources - T…
tsurugi@tsurugi: ~


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tsurugi@tsurugi: ~
File Edit View Search Terminal Help
usage: video2faces [-h] [-i INPUT] -o OUTPUT
options:
-h, --help show this help message and exit
-i INPUT, --input INPUT
input from video files or webcam (if no input is specified)
-o OUTPUT, --output OUTPUT
output directory
tsurugi@tsurugi:~$
SYSTEM
Kernel: 6.17.8-tsurugi
Uptime: 8d 4h 32m
CPU1: 20%
CPU2: 24%
CPU3: 13%
CPU4: 15%
CPU5: 79%
CPU6: 15%
CPU7: 12%
CPU8: 15%
RAM: 32%
F: 49.6GiB U: 13.9GiB
SWAP: 0%
F: 0B U: 0B
Processes: CPU RAM
Xorg 3.06 0.25
mate-terminal 1.52 0.08
kworker/u32:4-kv 0.63 0.00
kworker/u32:2-kv 0.63 0.00
xfdesktop 0.51 0.17
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky 0.25 0.05
conky/er/6:0-even 0.25 0.05
DATE
16:55
19 February 2026
HD
Rofs: 0%
F: 0B U: 9.59GiB
Os: 52%
F: 258GiB U: 230GiB
Volume: 85%
F: 3.10TiB U: 555GiB
Gico-broi: 83%
F: 12.2GiB U: 2.45GiB
NETWORK
Network Unavailable
Tsurugi Linux 25.11
tag-Firefox
[root@tsurugi: /hom…
[01.known_sources - T…
tsurugi@tsurugi: ~

MOBILE FORENSIC

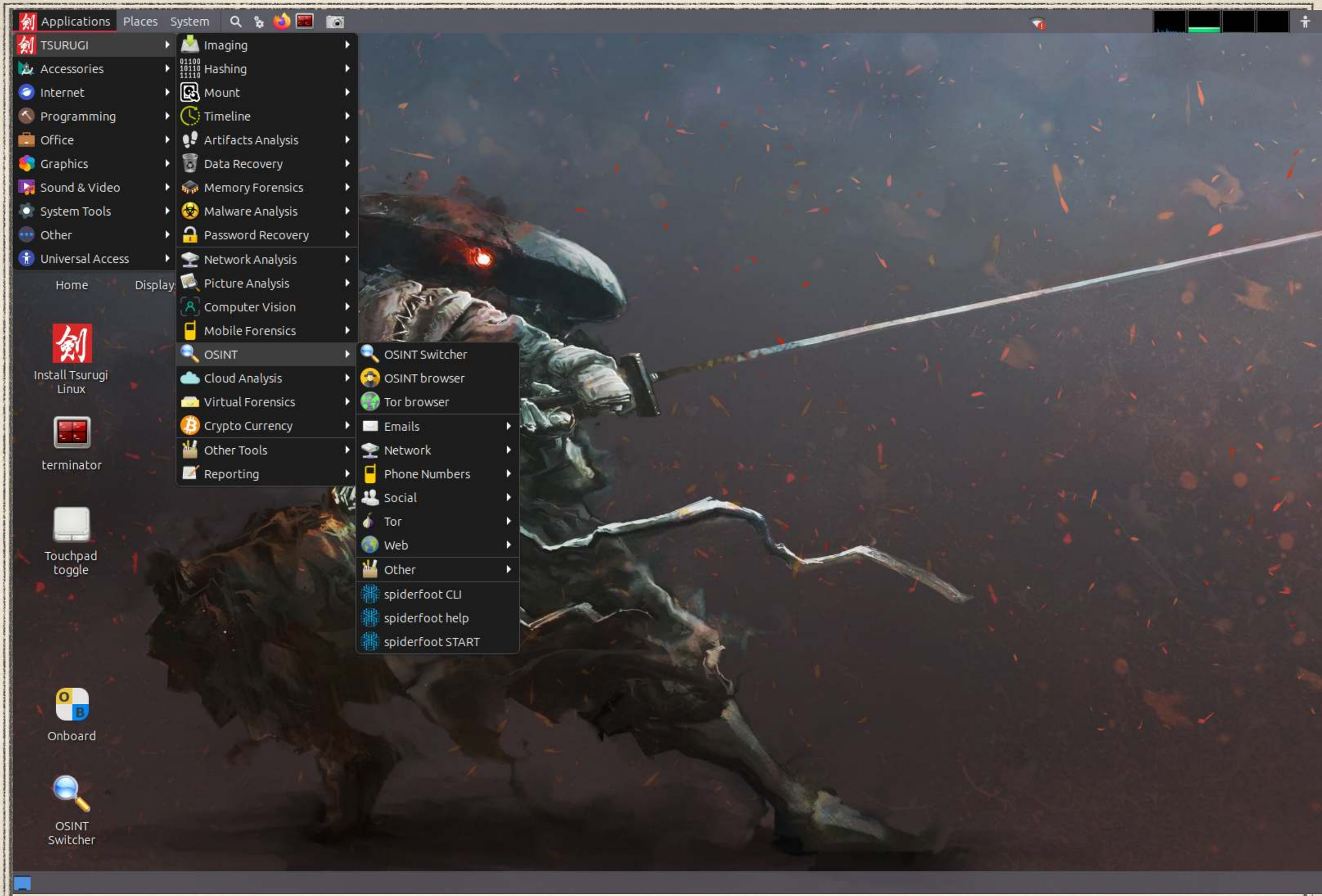

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CiLocks
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kobackupdec
LevelDBDumper
SQLiteWalker
Whatsapp
Telegram
email2whatsapp
undark
whapa-gui
whachat
whacipher
whacloud
whagodri
whapa
whamerge
whatsappbeacon
WhatsAppKeyDBExtract
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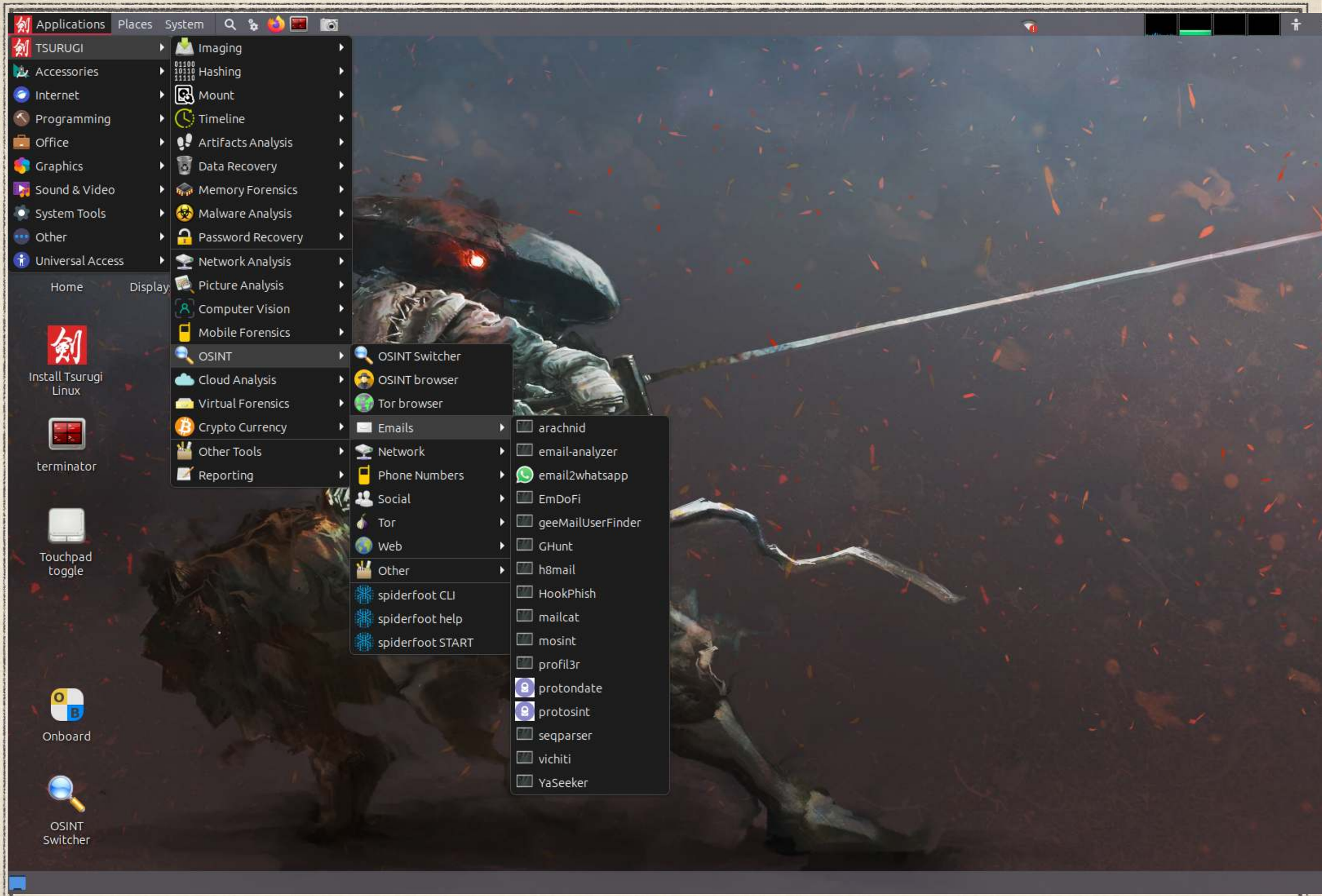

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CiLocks
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kobackupdec
LevelDBDumper
SQLiteWalker
Whatsapp
Telegram
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geogramint [GUI]
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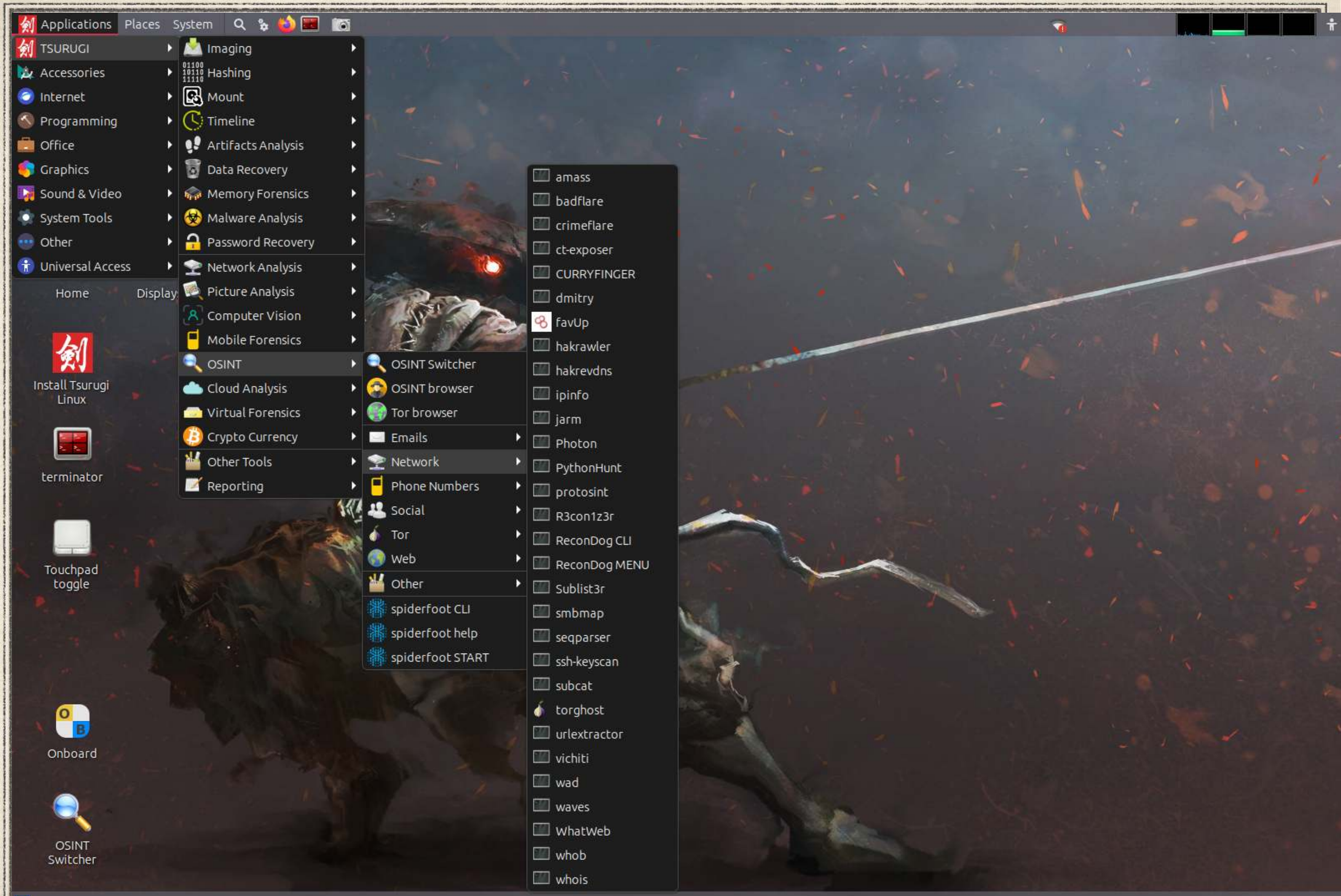

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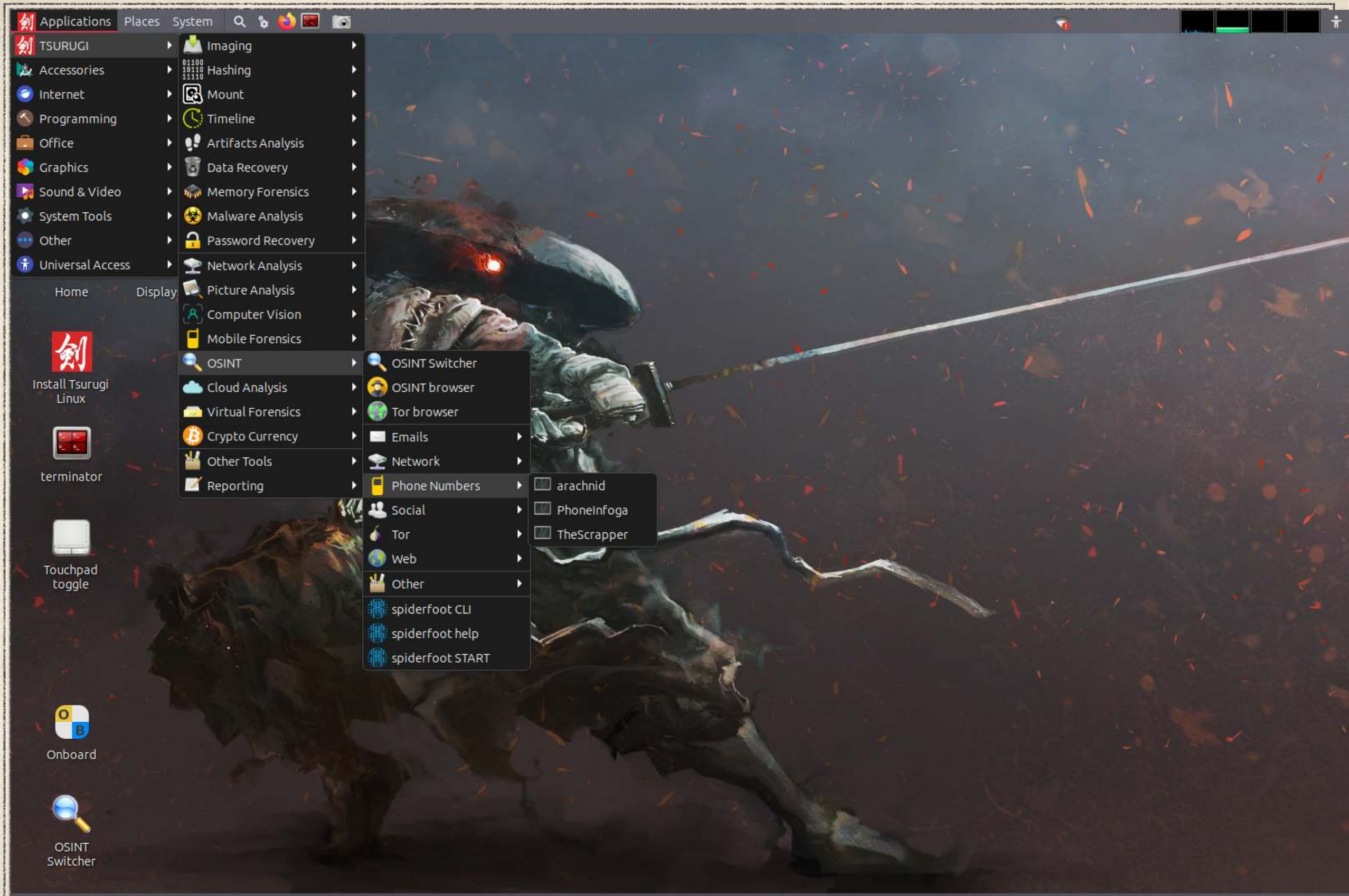

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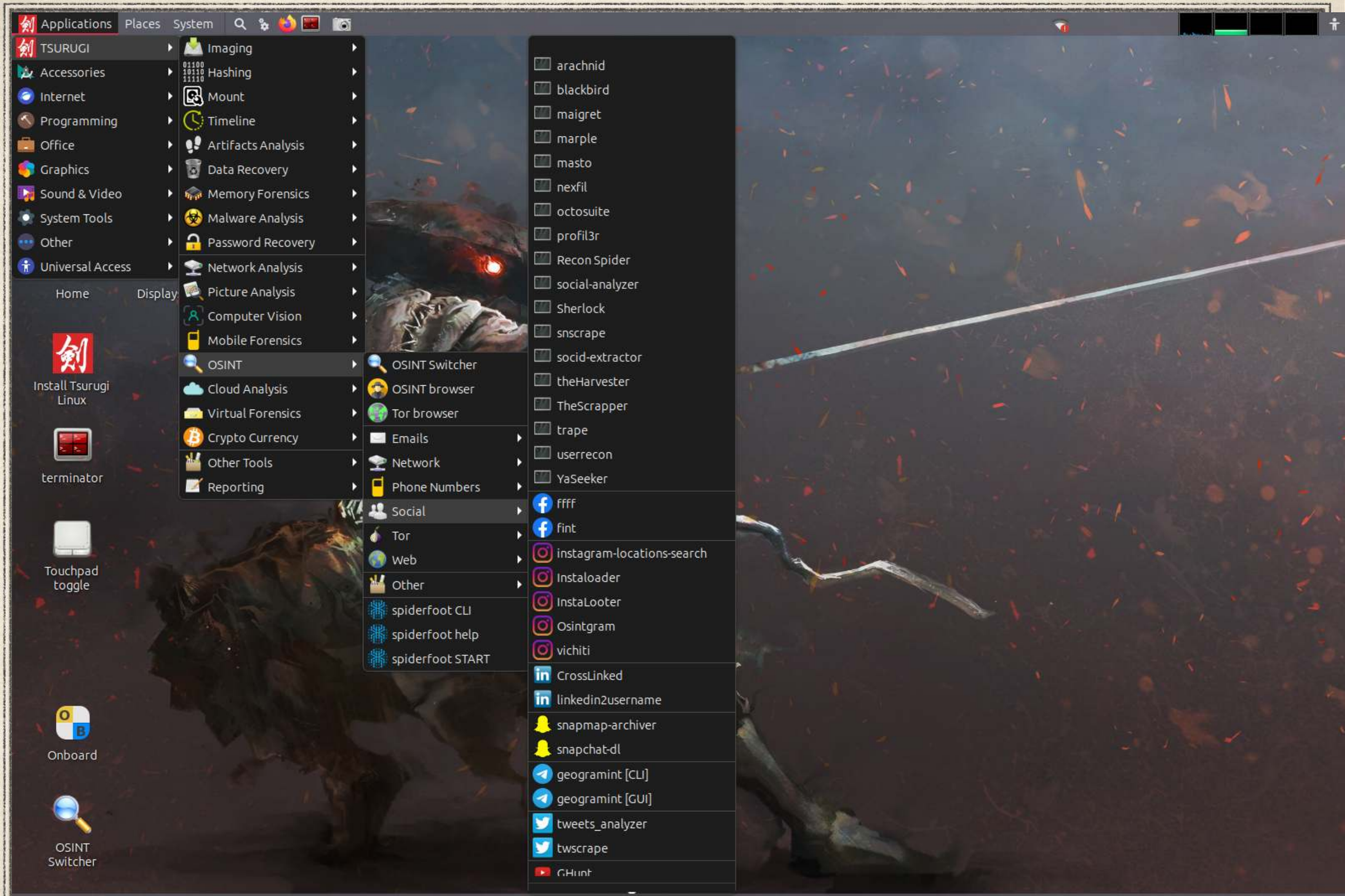
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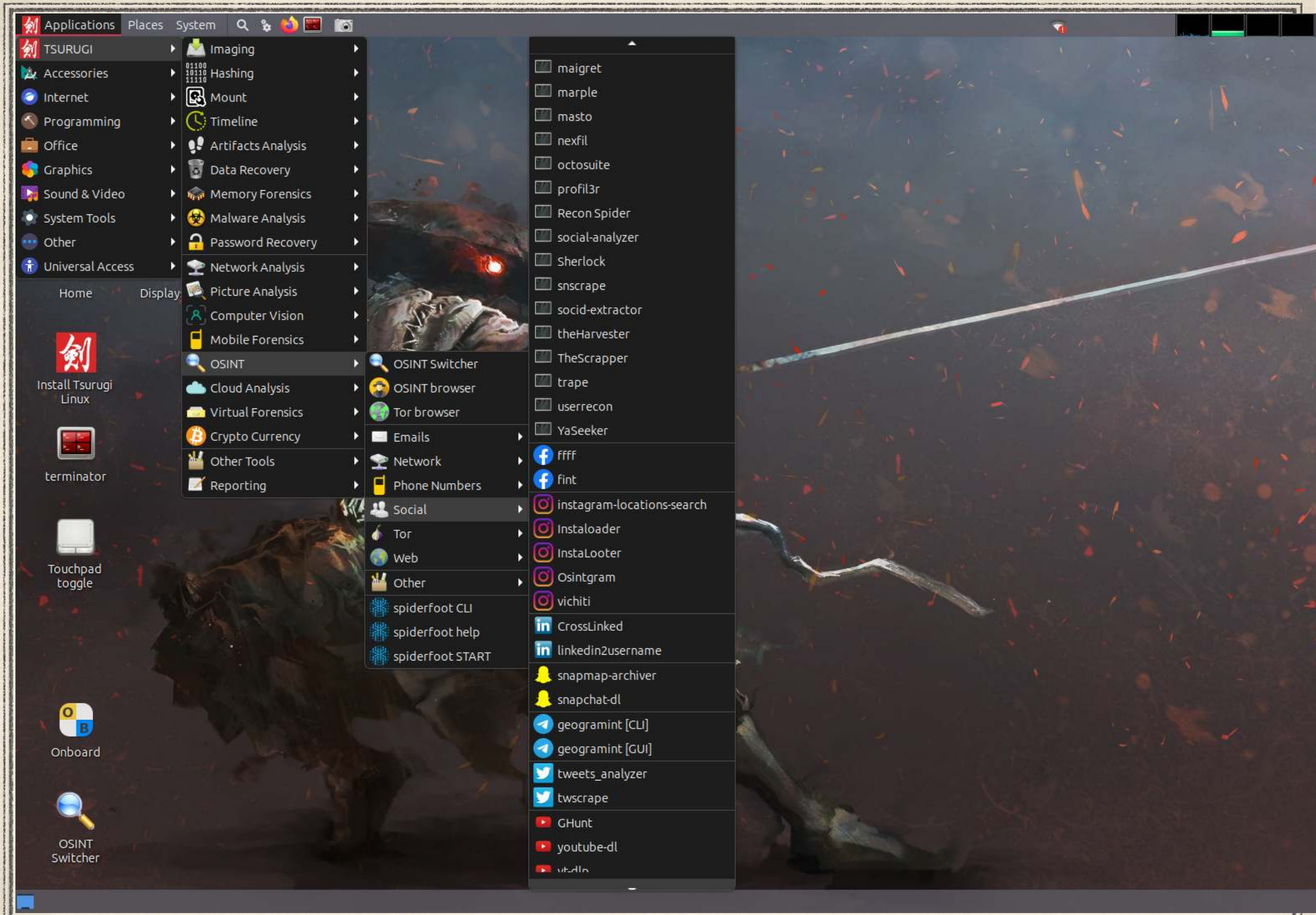

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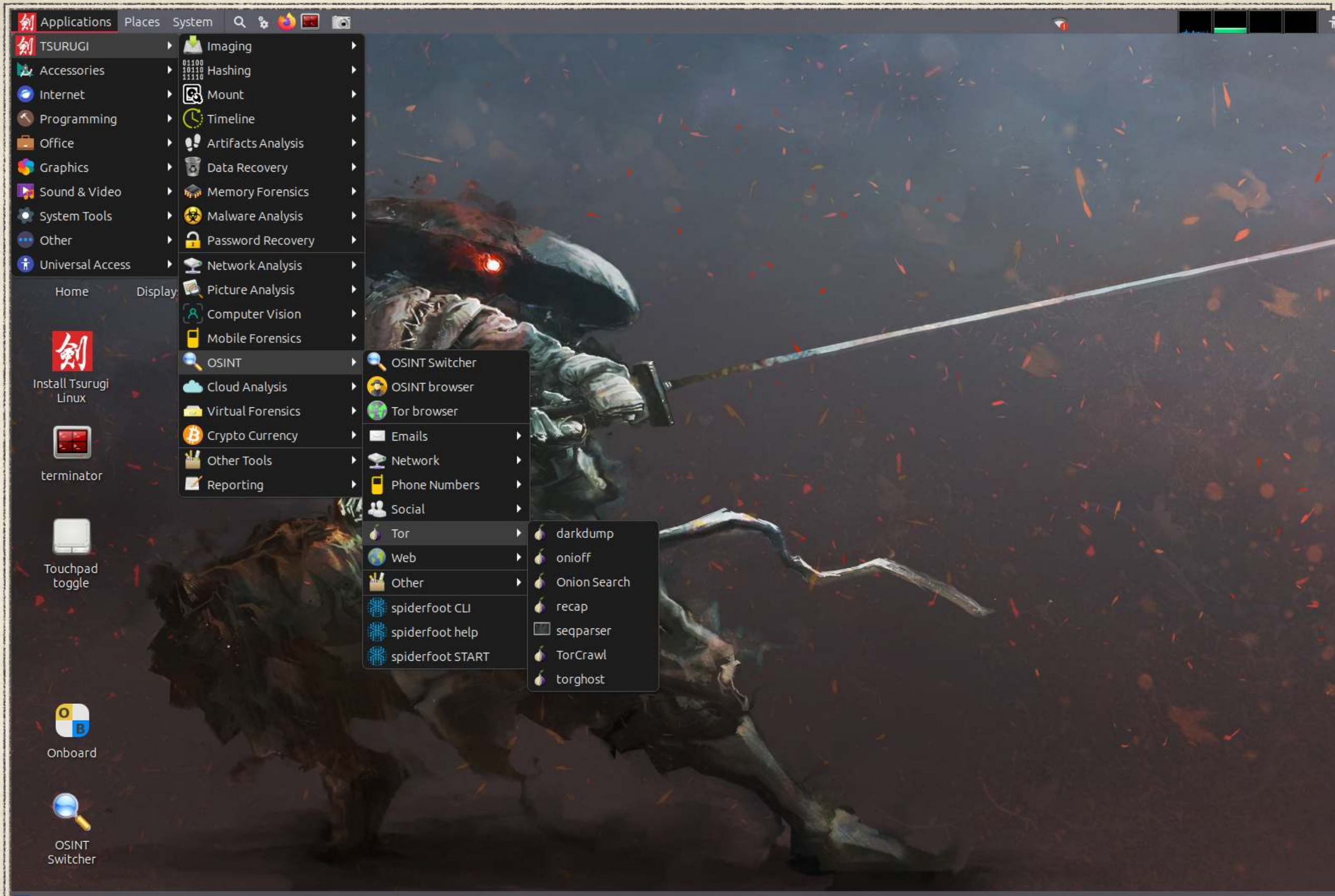

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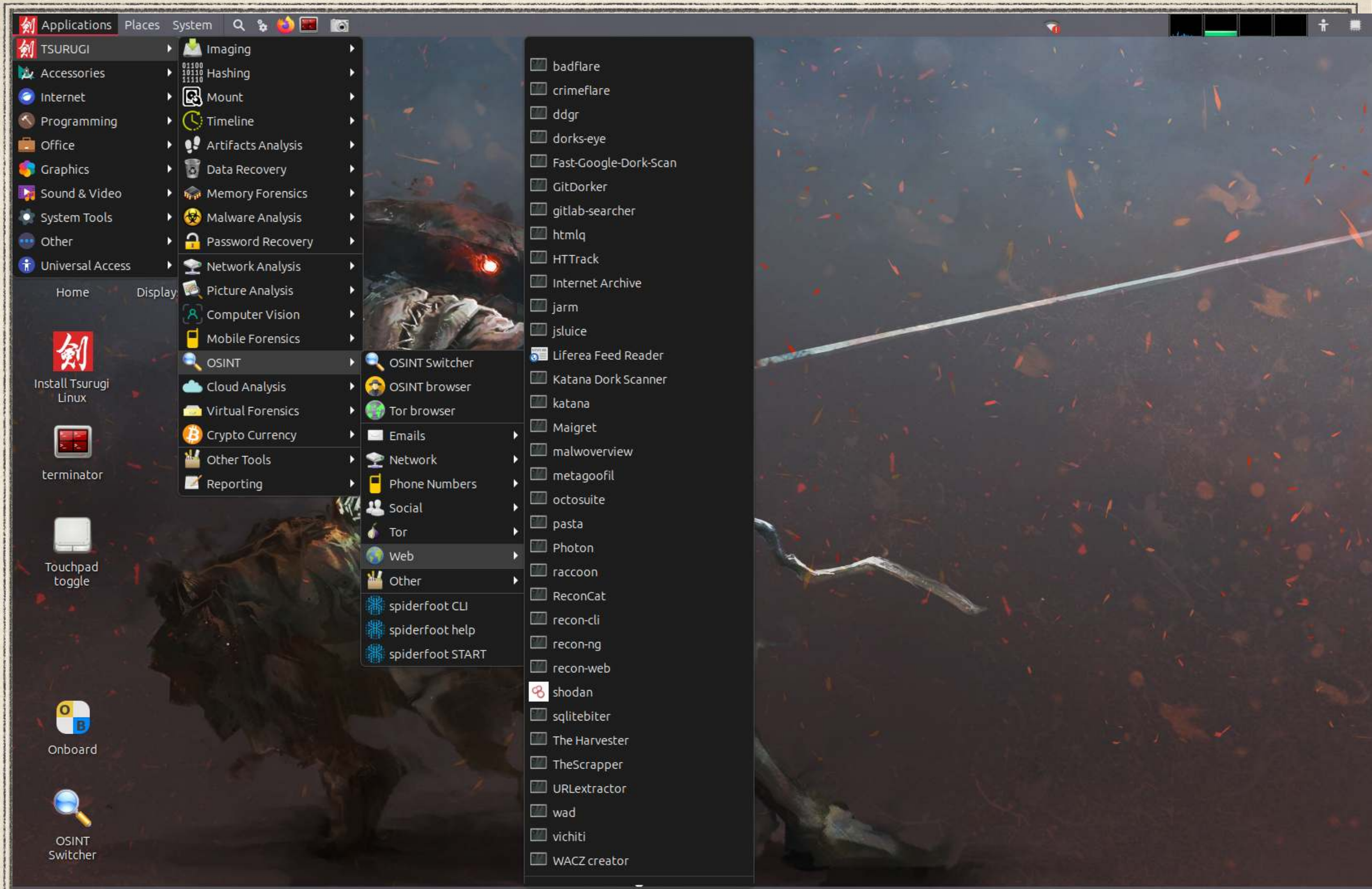

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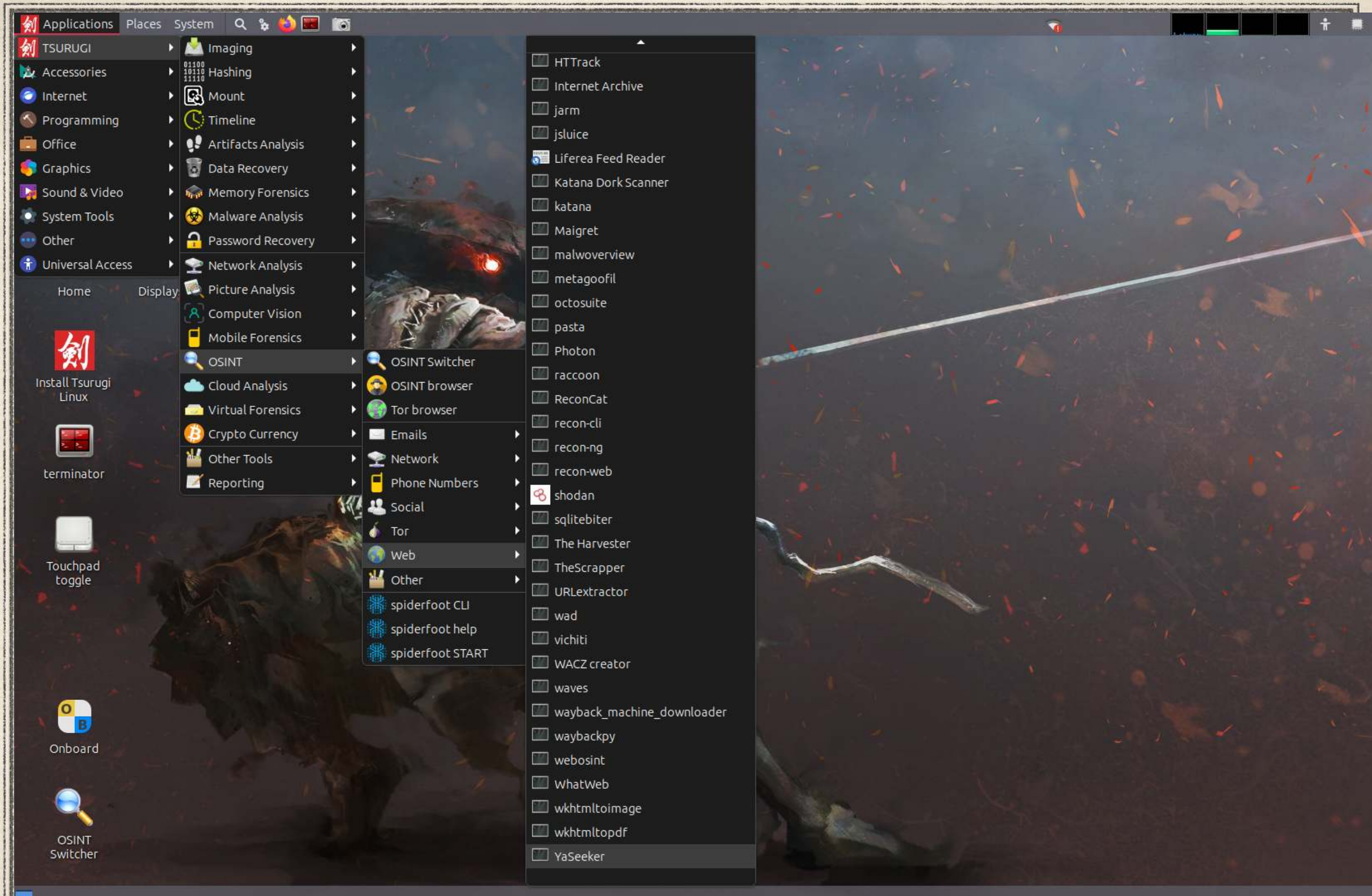

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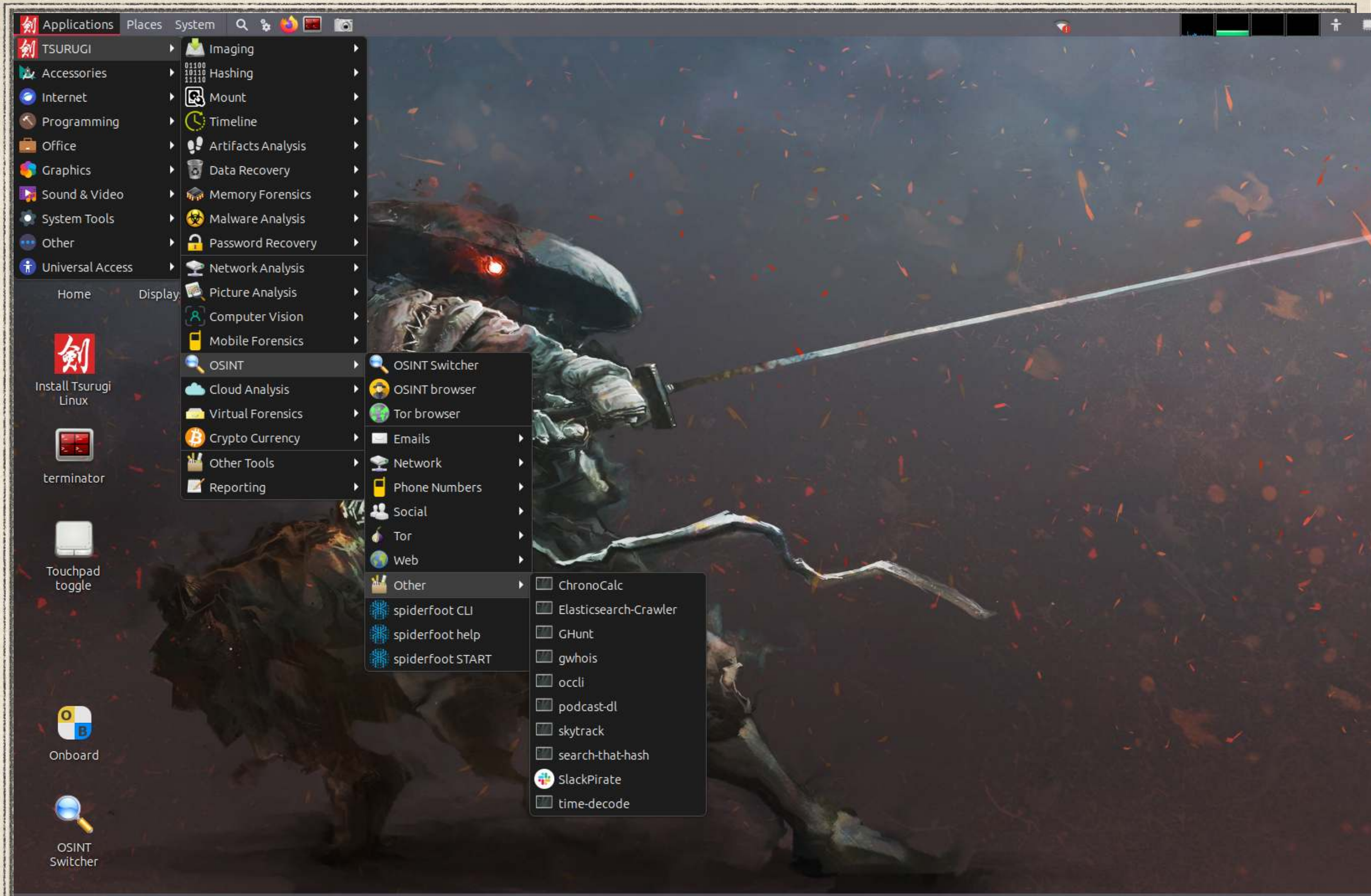

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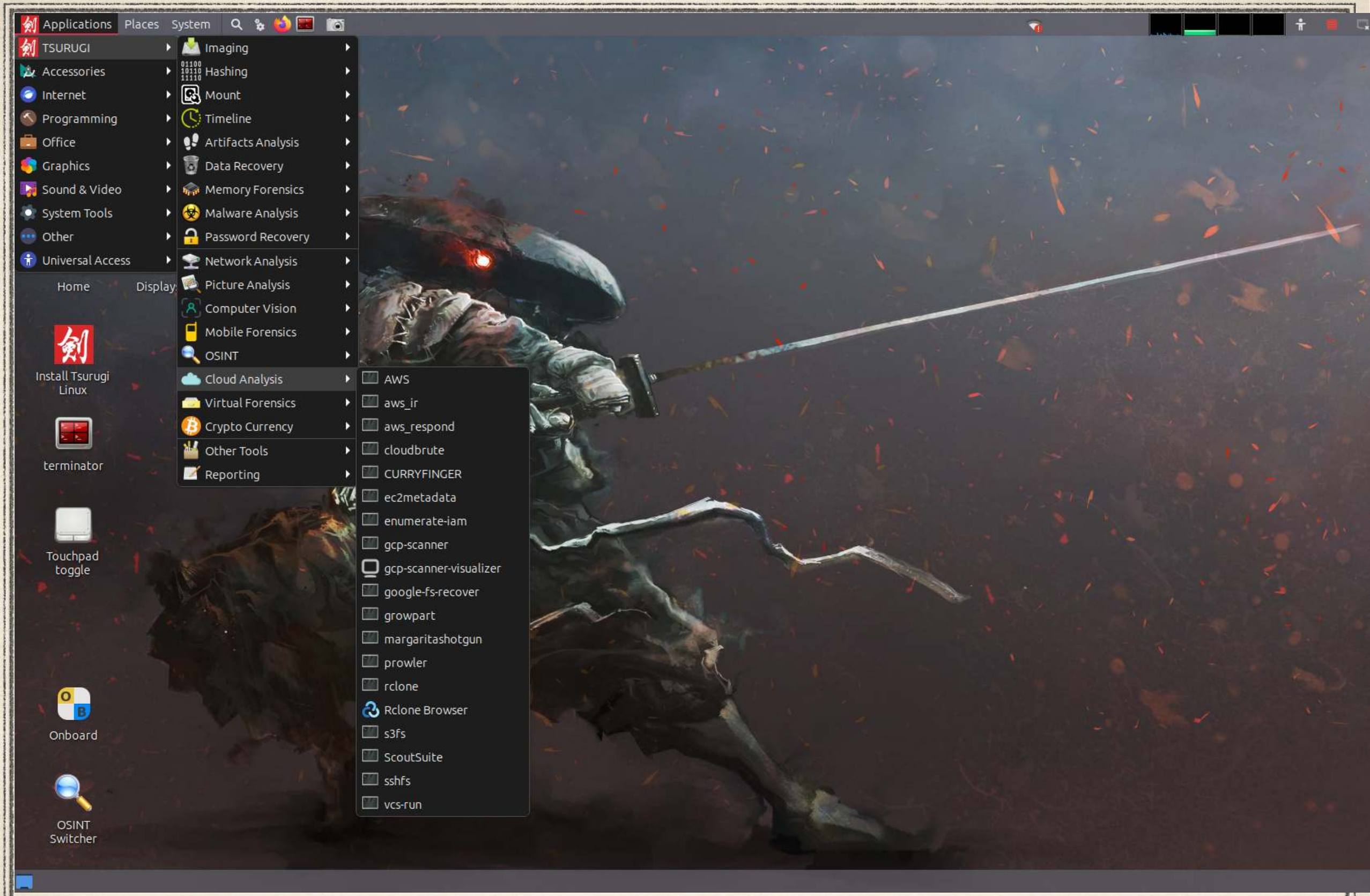

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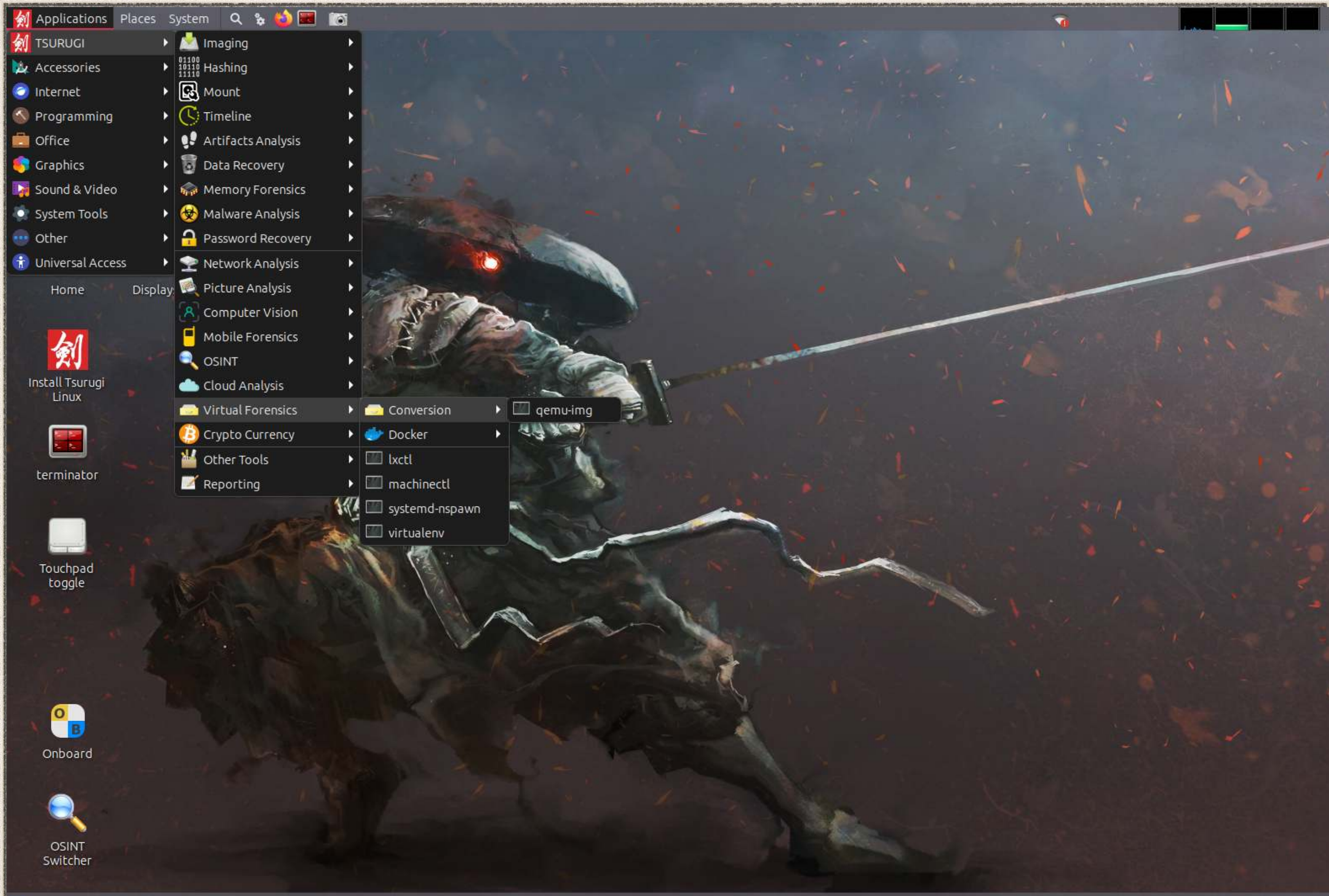

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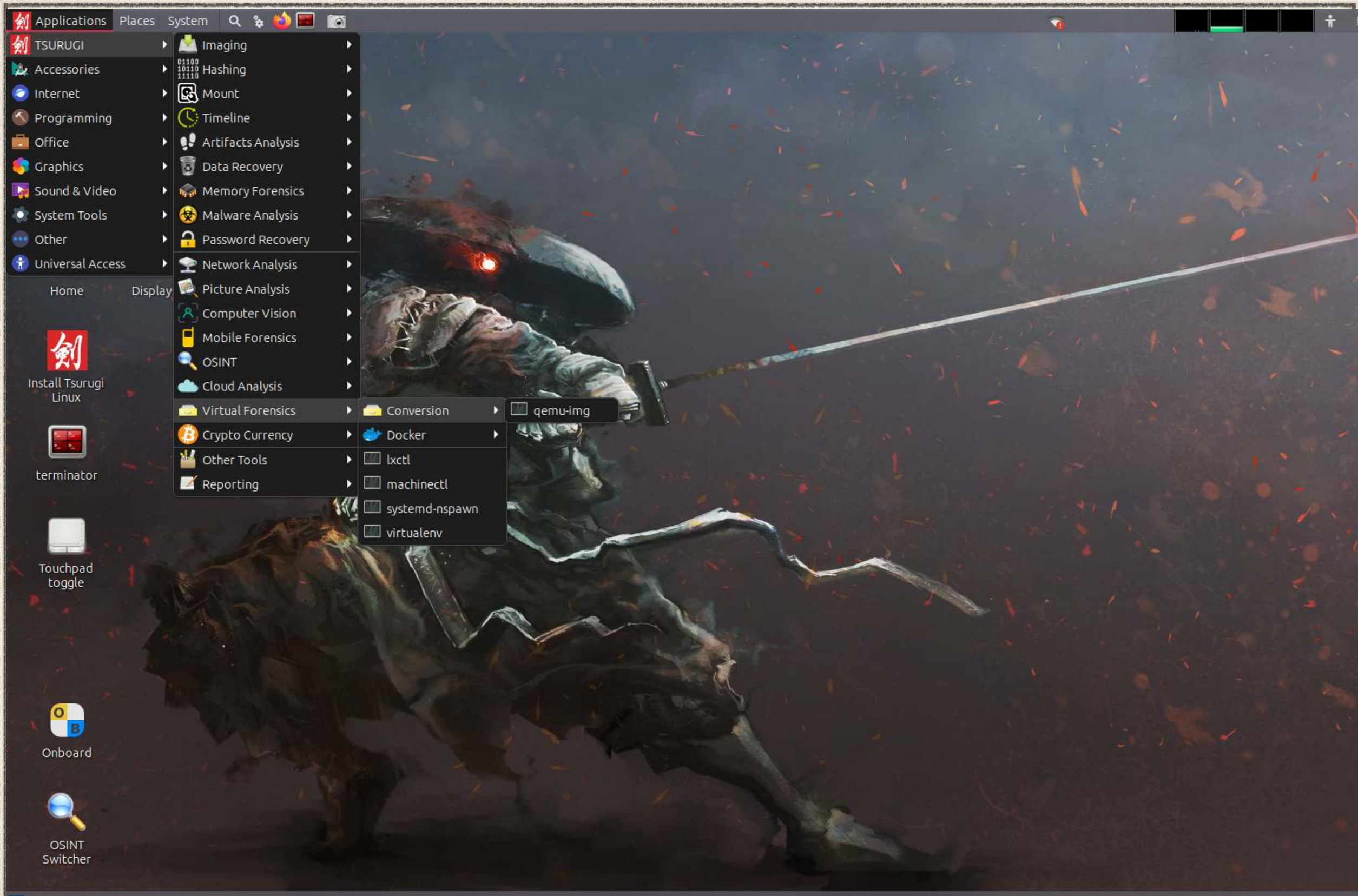

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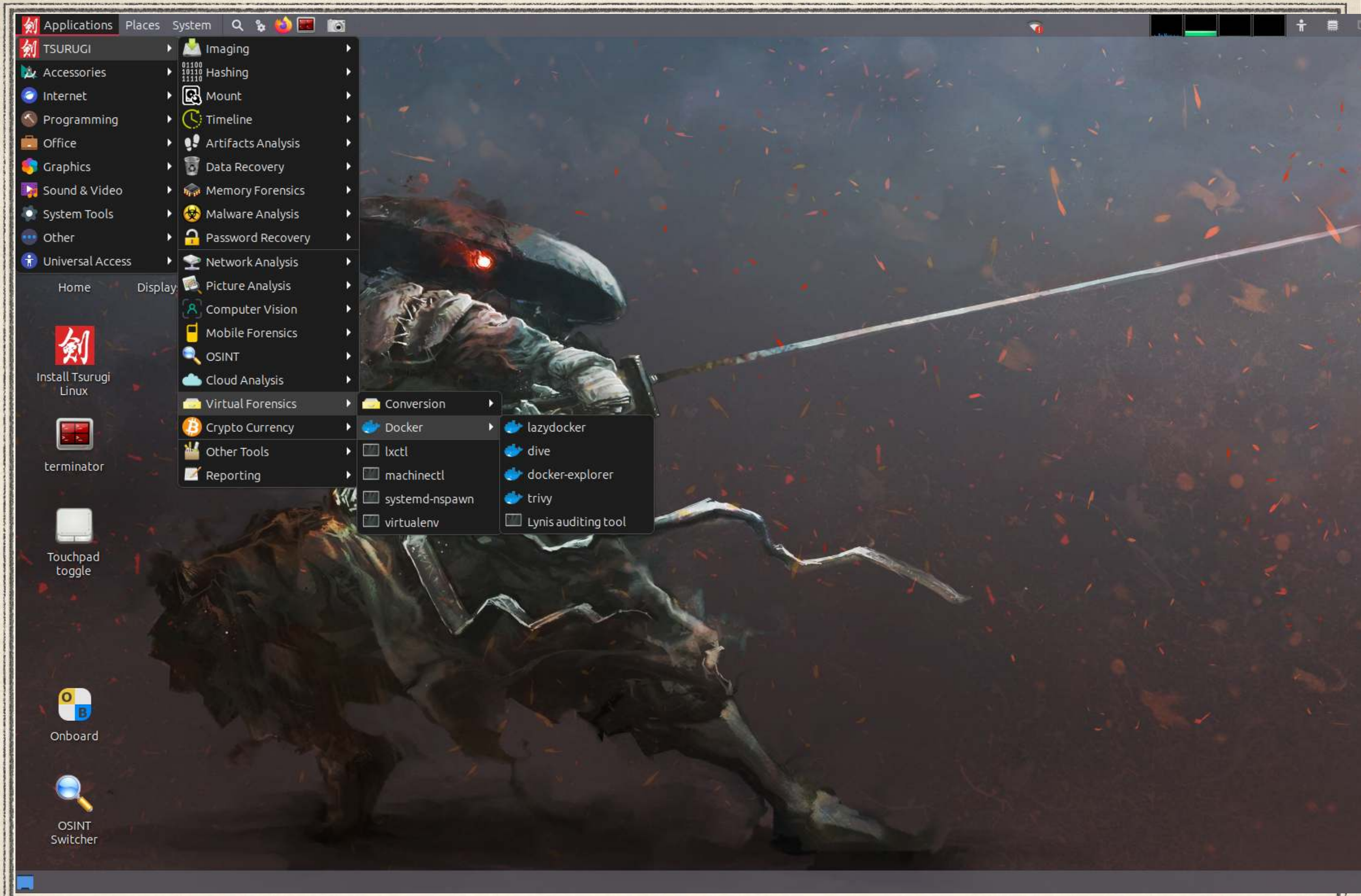
CLOUD ANALYSIS


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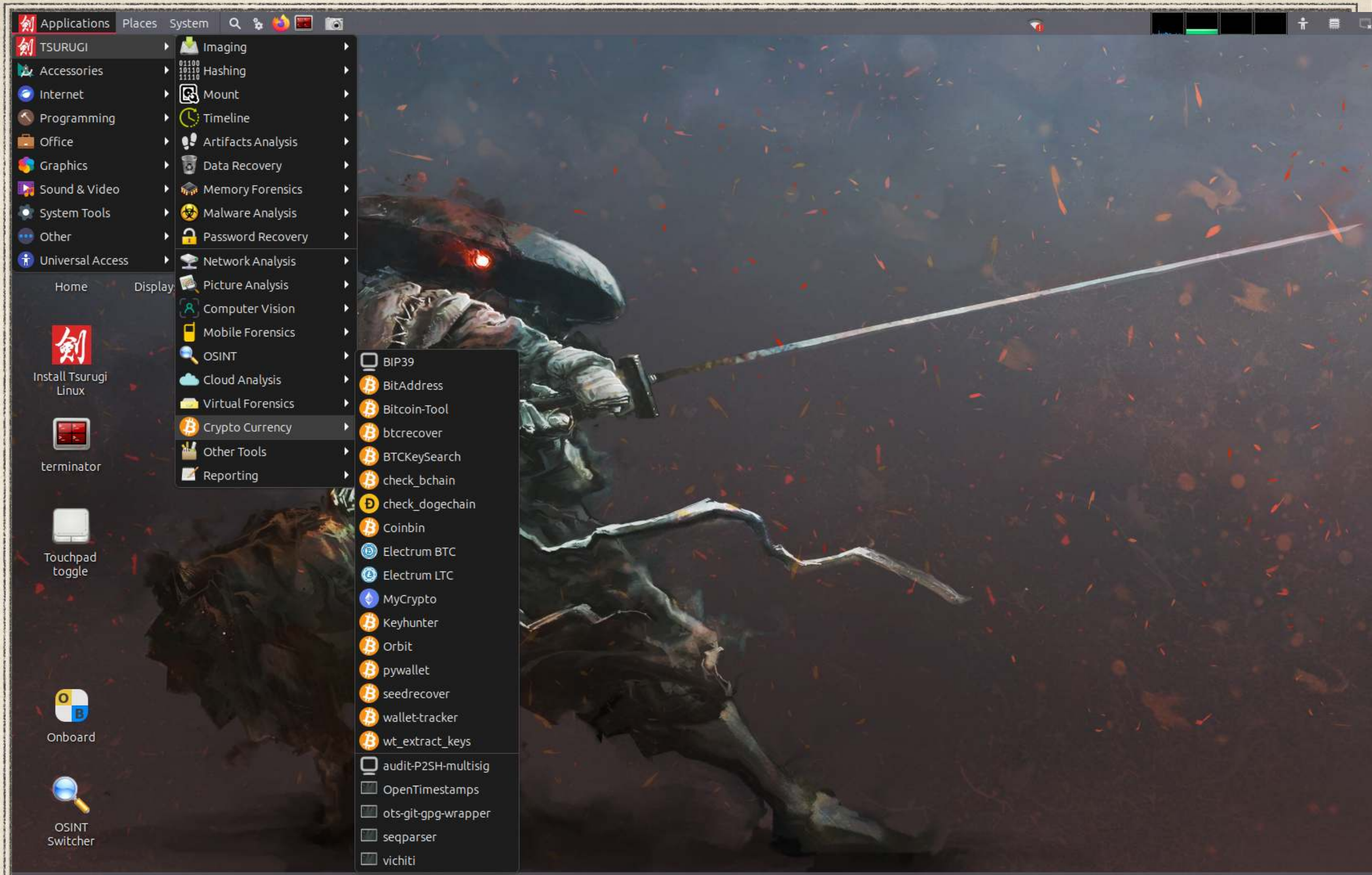
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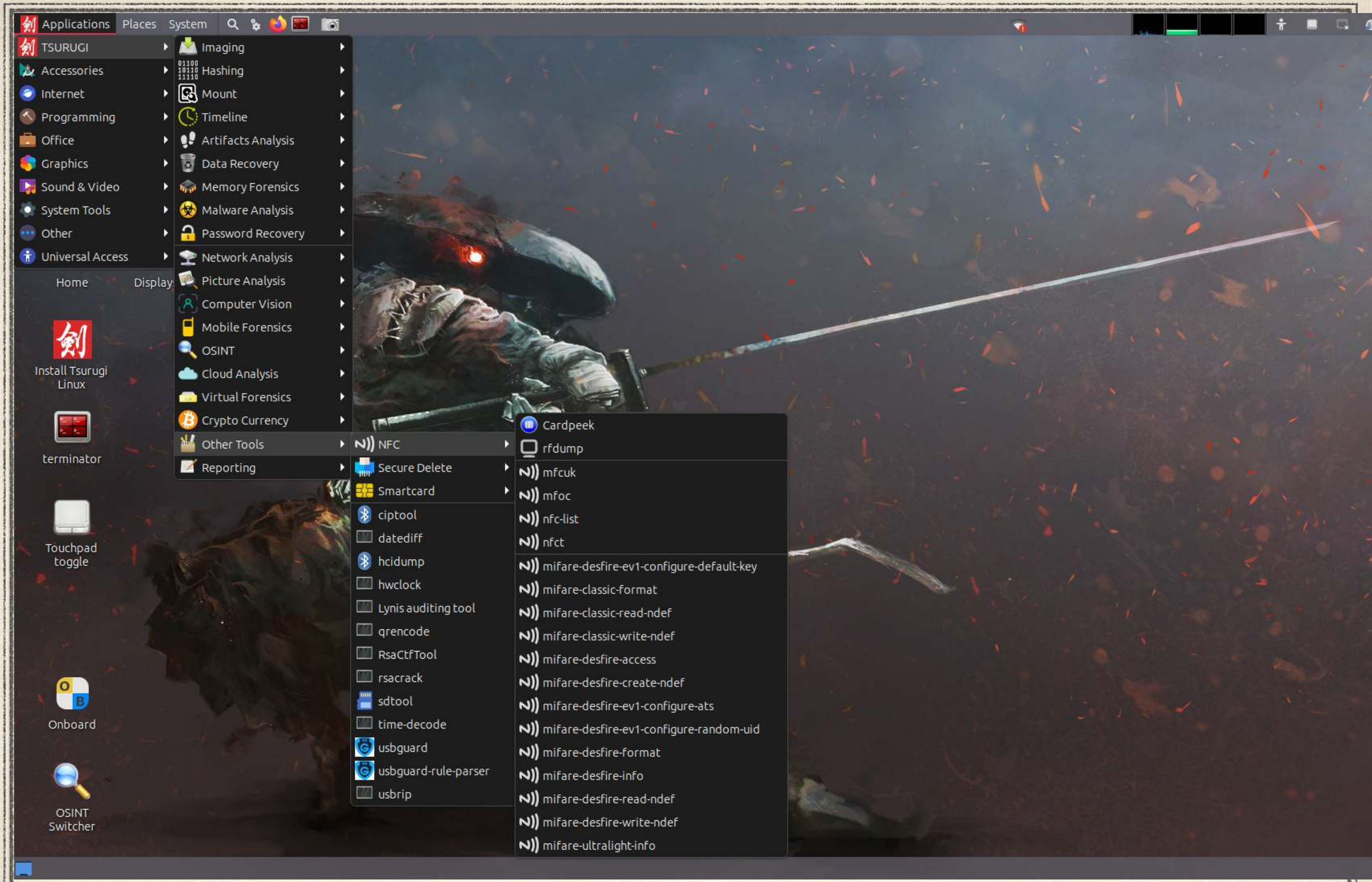

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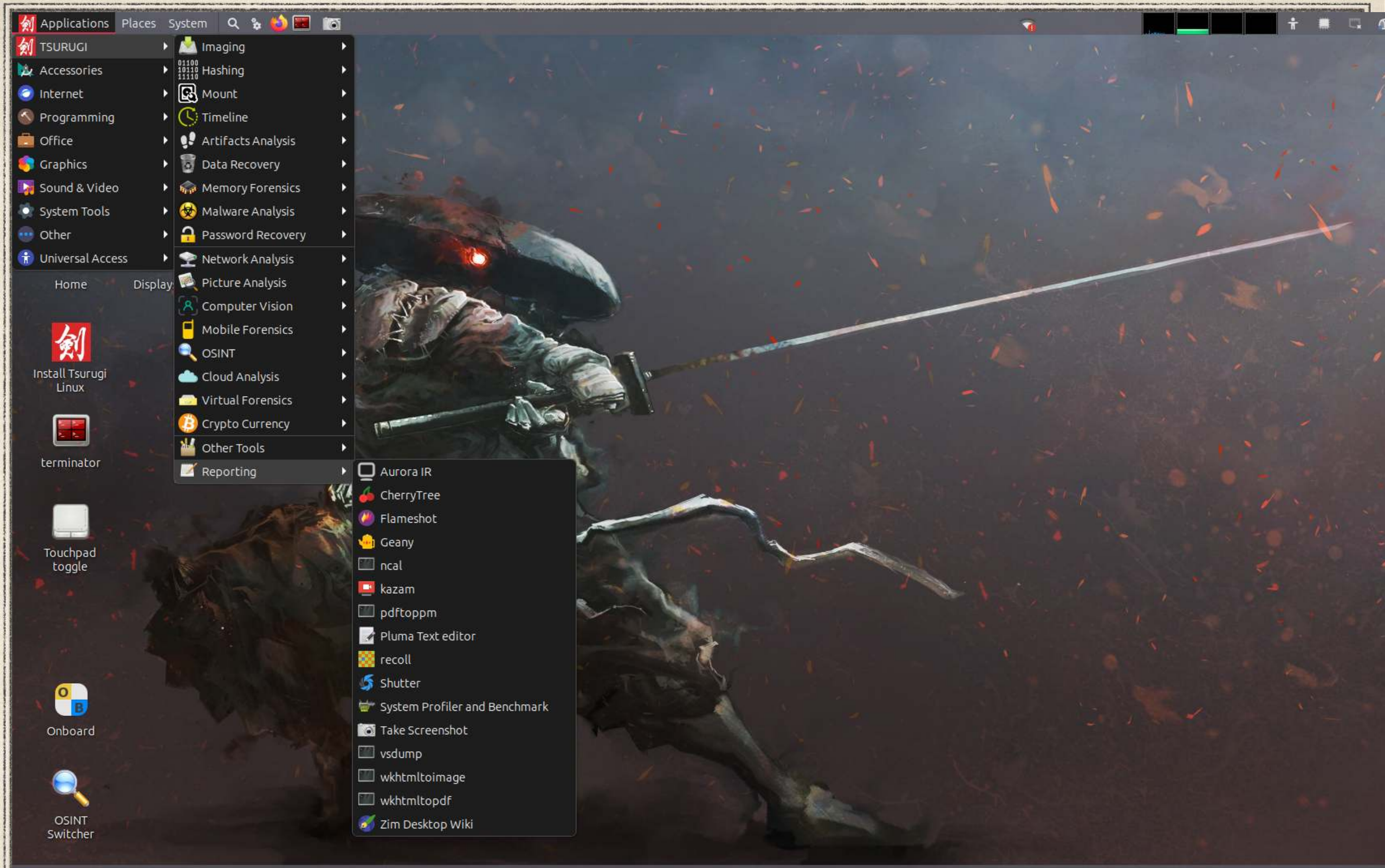
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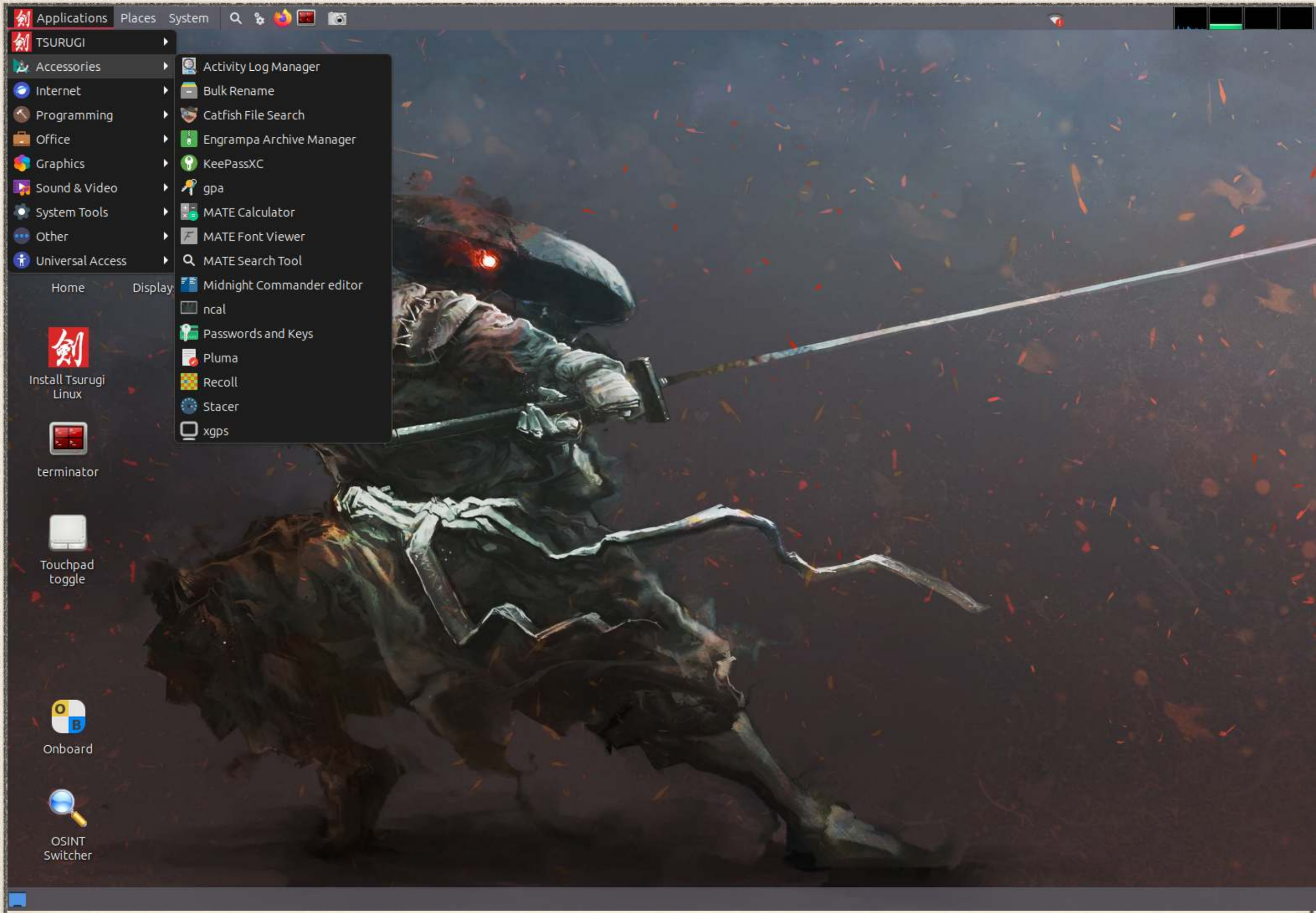

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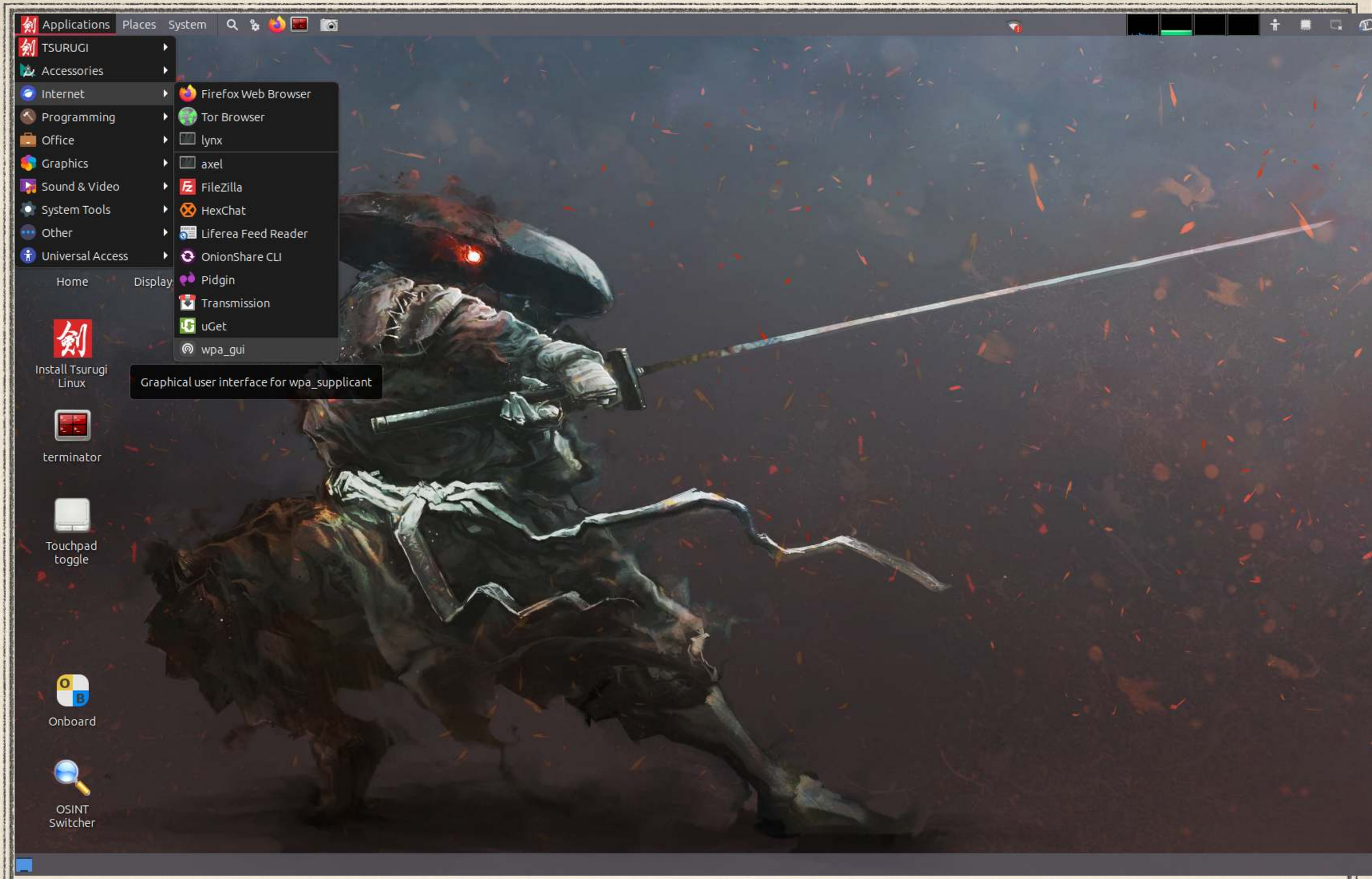
OTHERS TOOLS

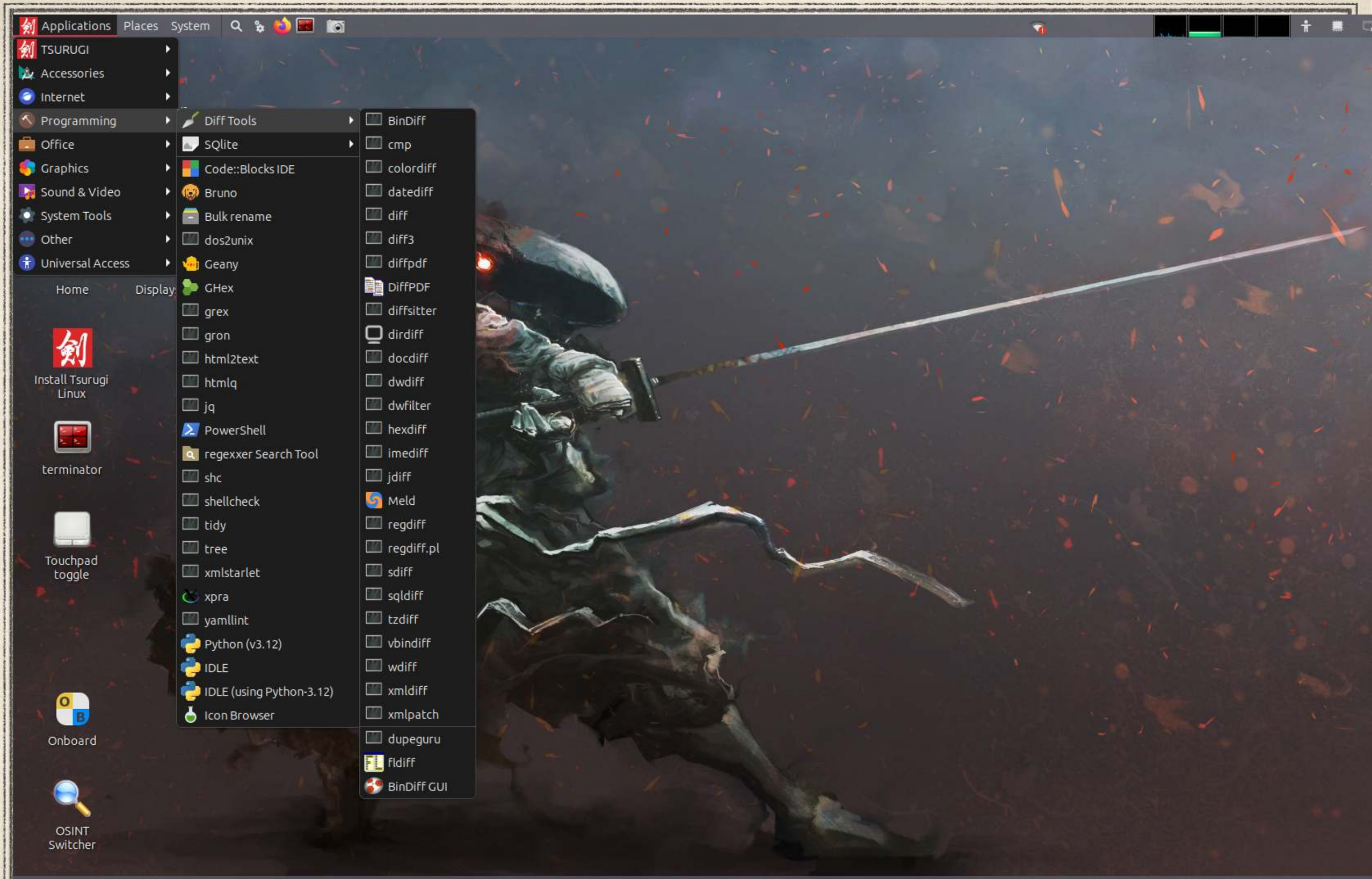

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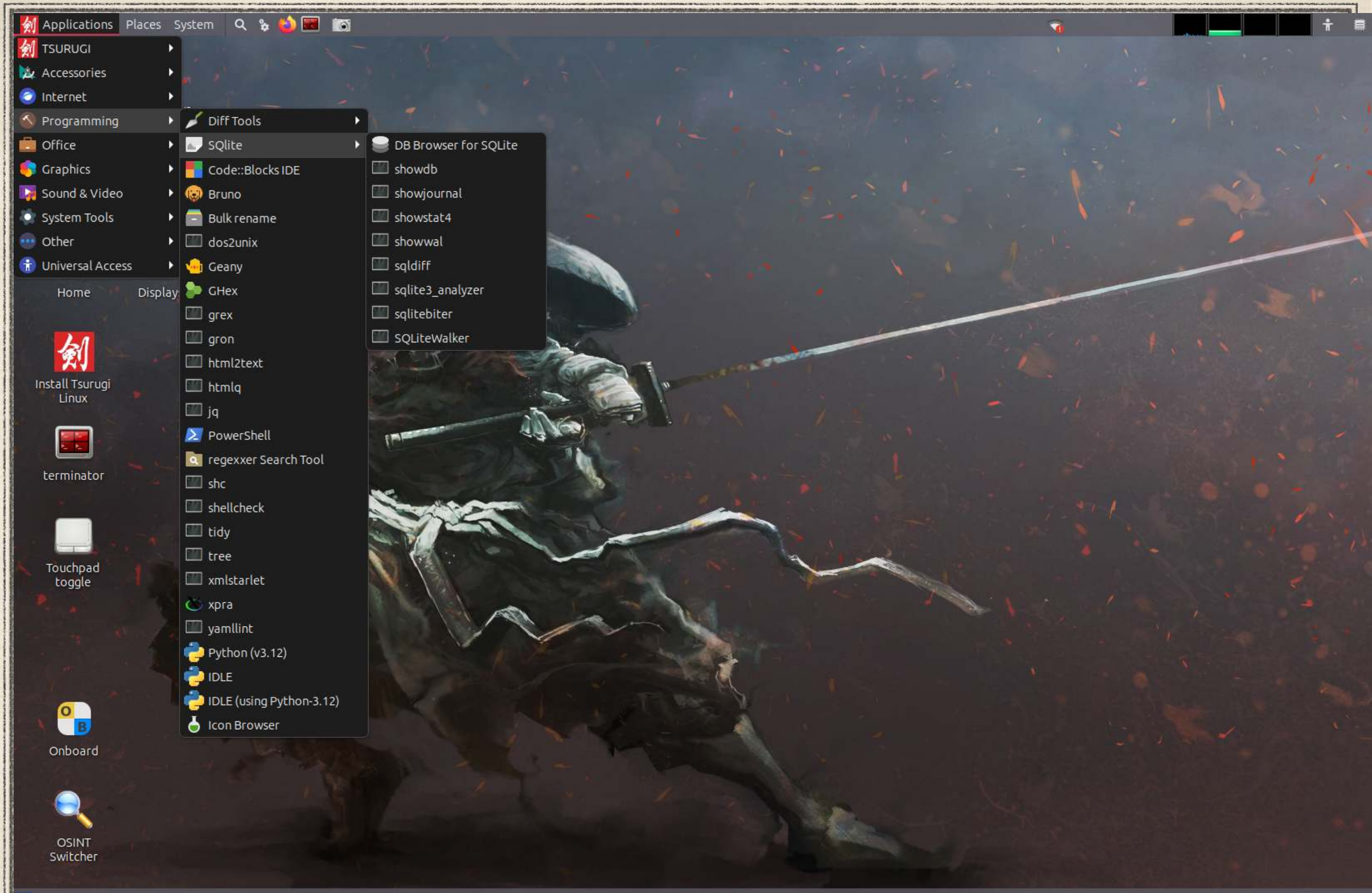
REPORTING

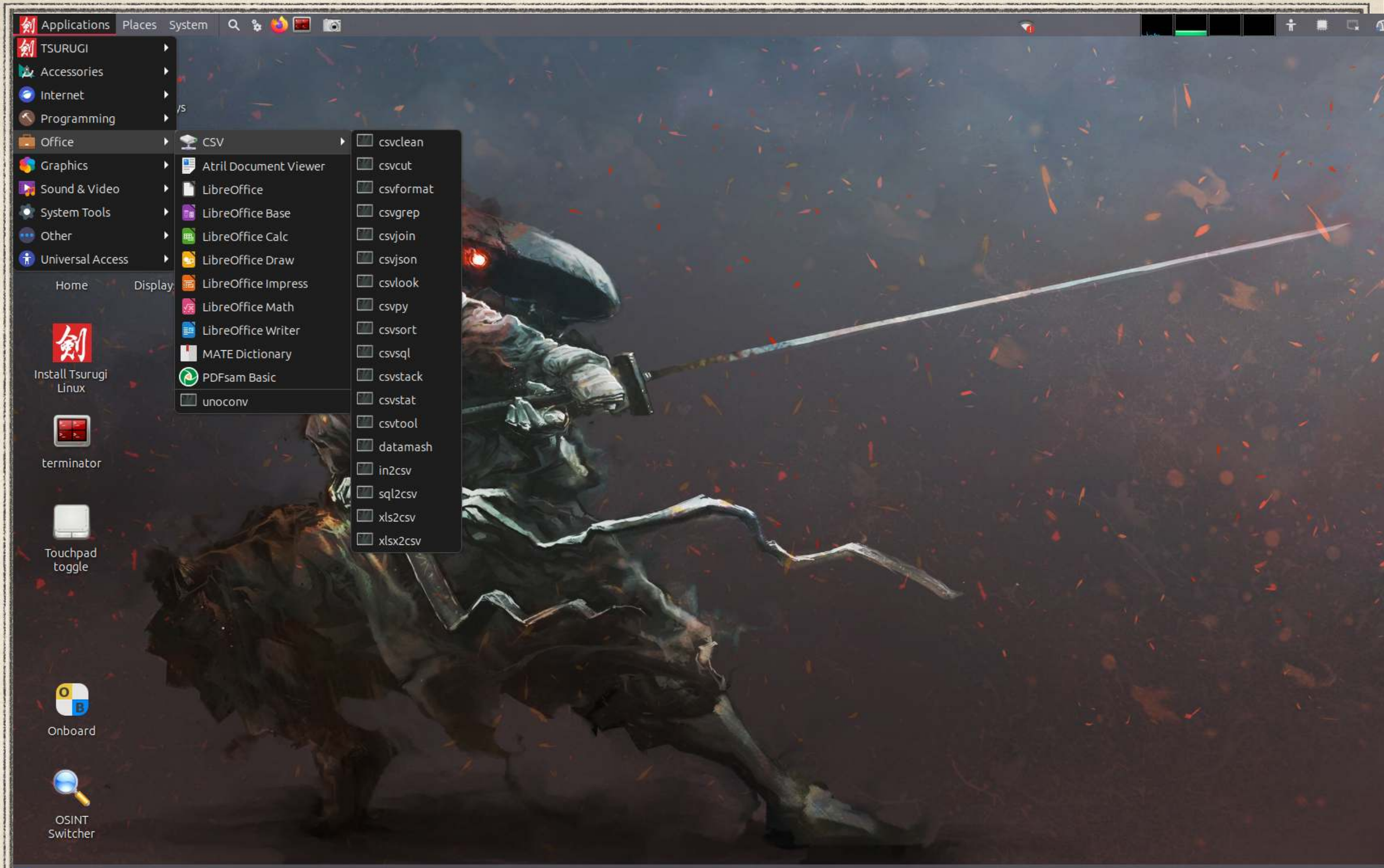

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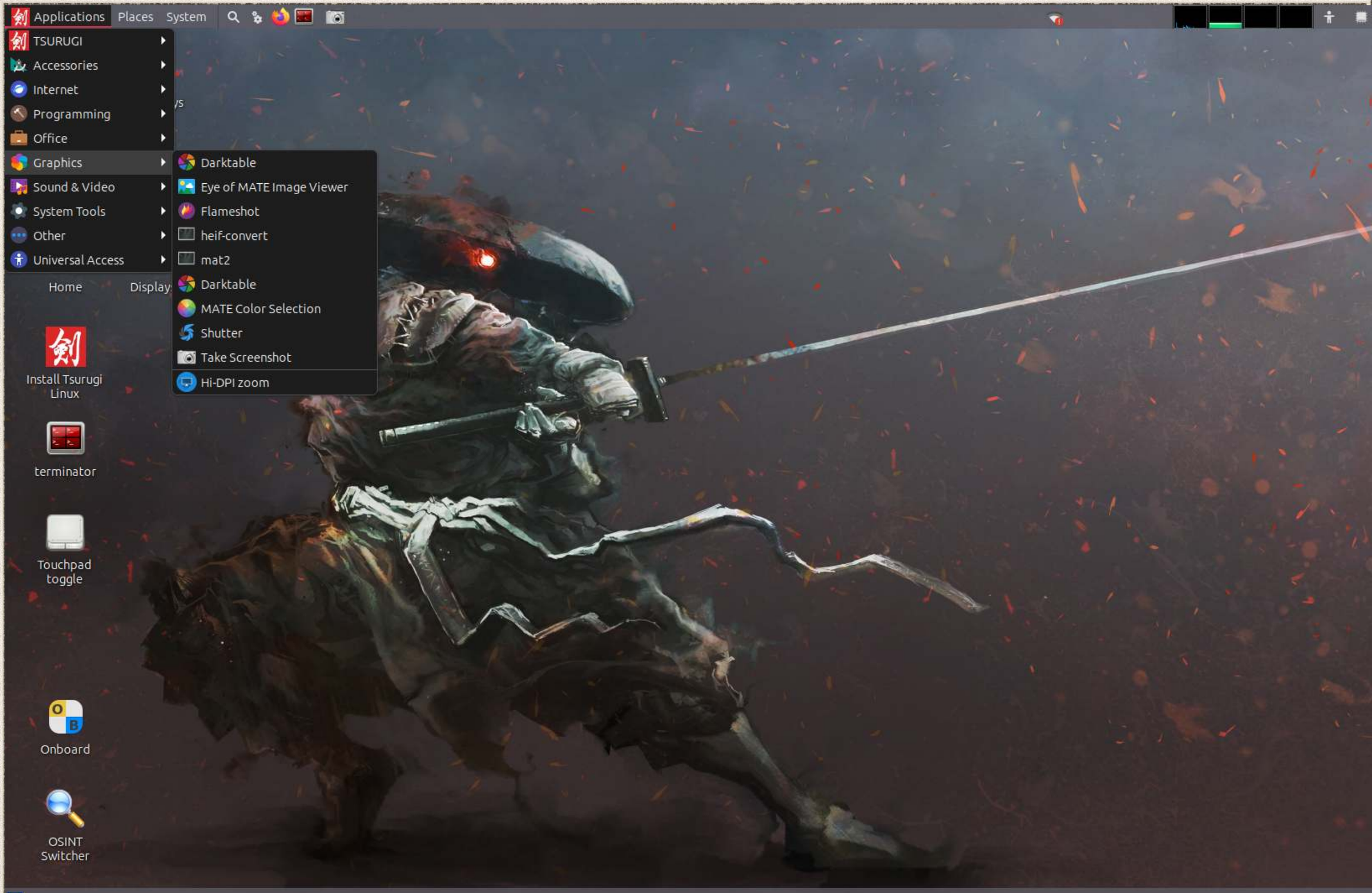

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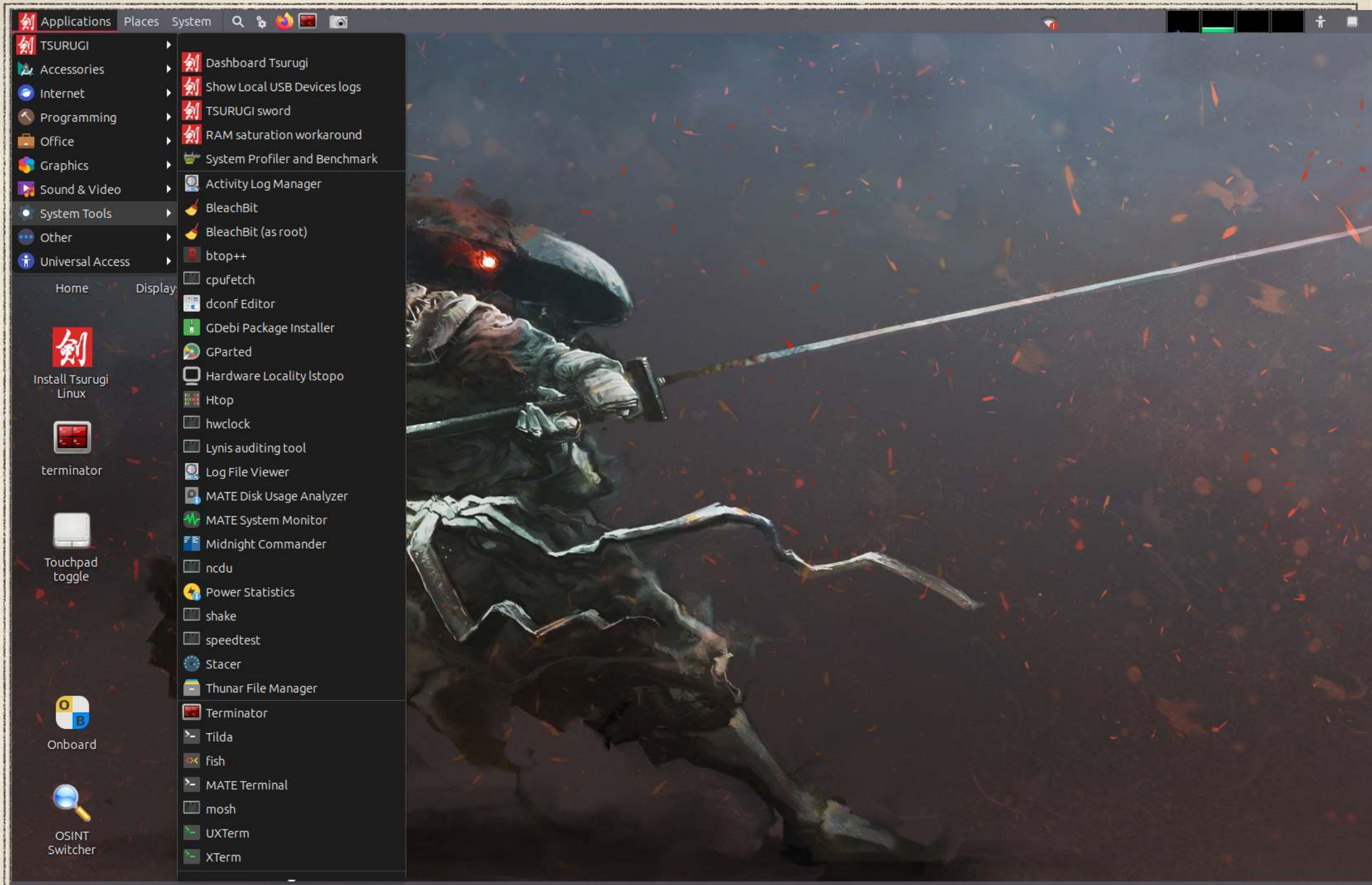

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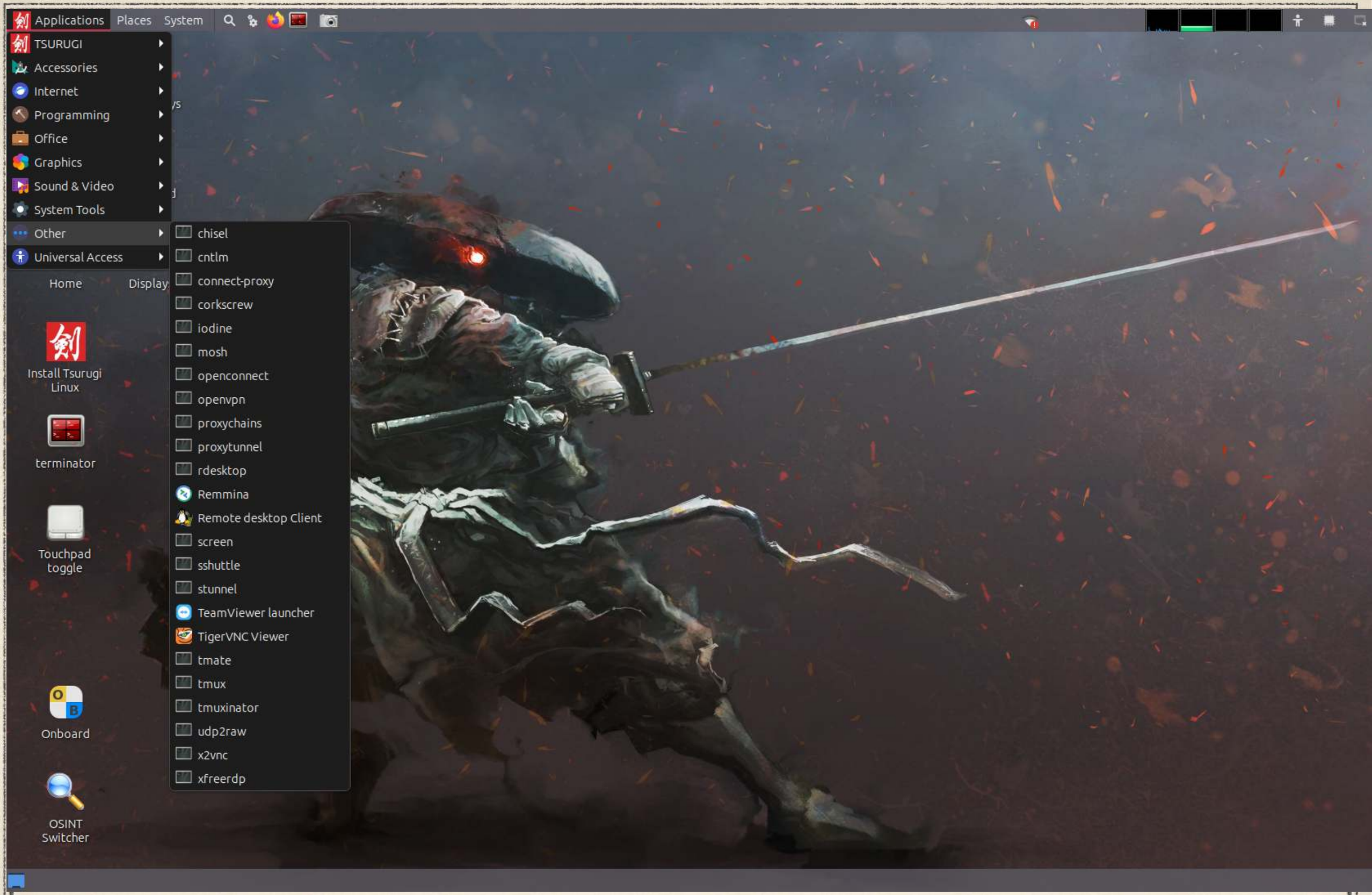

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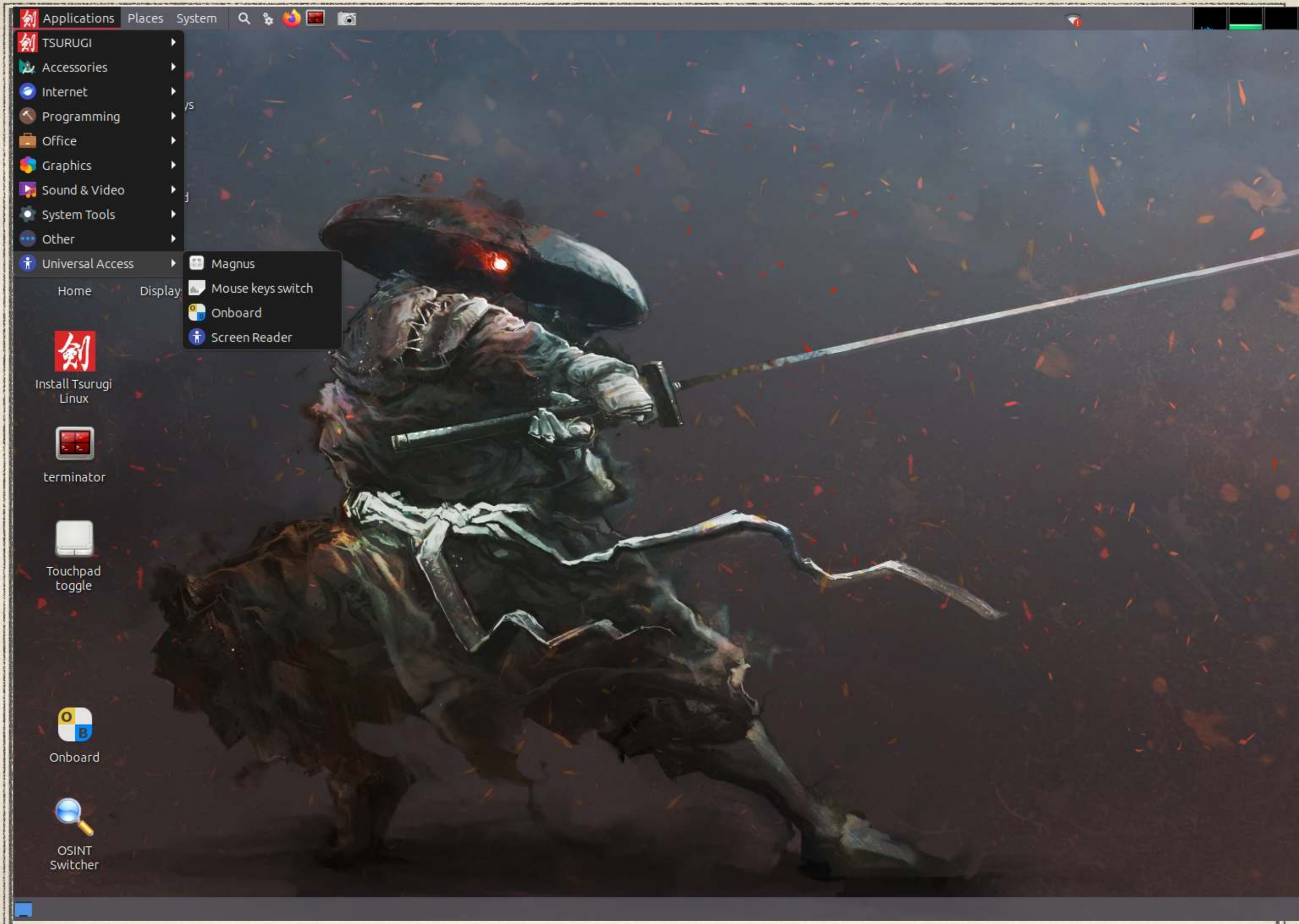

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DOMANDE ?

Cybersecurity:

Open Source
VS

I PROGETTI OPEN SOURCE ITALIANI RELATIVI AI VARI SISTEMI OPERATIVI OPEN SOURCE POSSONO CONSIDERARSI UN PICCOLO ESEMPIO DI SOVRANITà DIGITALE ?

SOFTWARE OPEN SOURCE

POSSIAMO AFFERMARE CHE SIA UNO STRUMENTO DI DISTRIBUZIONE DELLA DEMOCRATICITà DEL SOFTWARE ?

NON DELLE COMPETENZE!!!!!!!!

VI RINGRAZIO PER L'ATTENZIONE!

TSURUGI-LINUX

UNA DISTRO LINUX ITALIANA PER LA CYBER SECURITY - TRA DIGITAL FORENSIC & OSINT CON AUSILIO DI COMPUTER VISION

BY VISI@N

antonio@broi.it