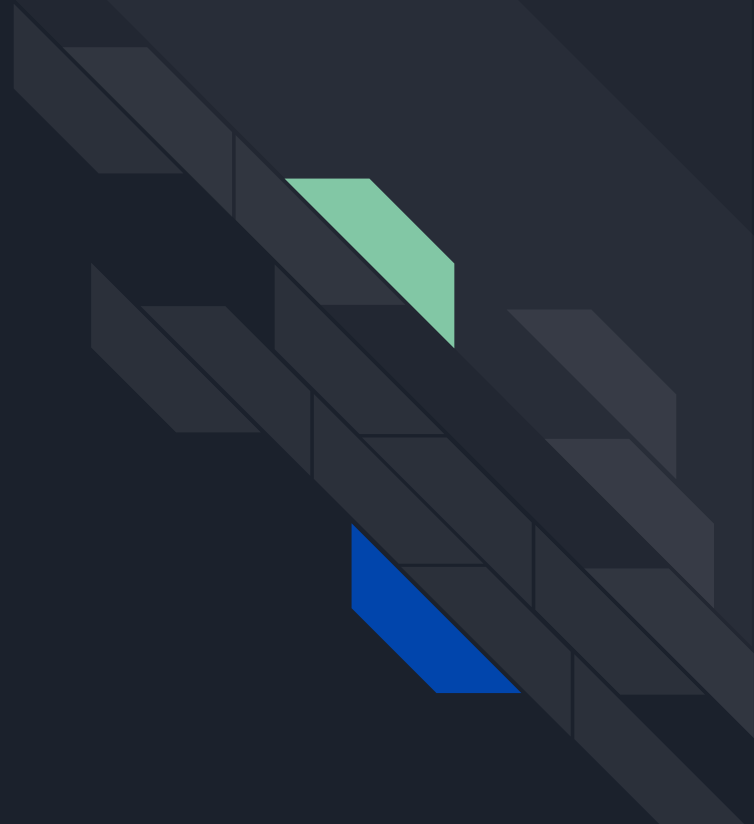




RIPE Atlas

Měříme Internet

<https://atlas.ripe.net>



Co je RIPE Atlas

Sondy

- 11 100+ instalovaných
- 5 000+ ASN
 - ◆ 3 663 IPv4
 - ◆ 1 623 IPv6
- 169 zemí



Co je RIPE Atlas

Web + API + CLI

→ Registrace sondy

→ Správa

→ Statistiky a data

→ Vlastní měření

The screenshot displays the RIPE Atlas web interface for a specific probe, #29708. The interface is divided into several sections:

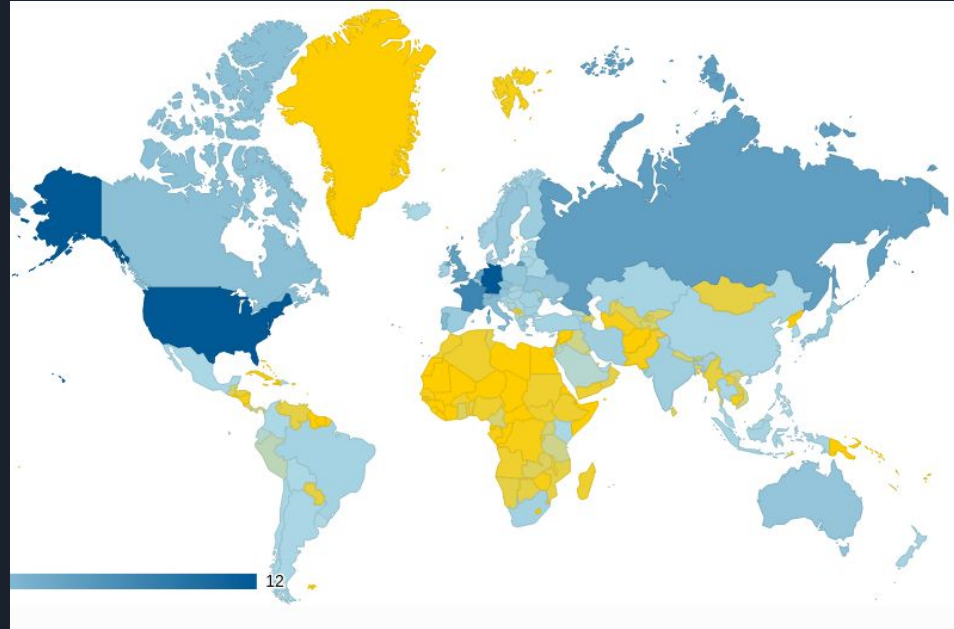
- General Information:** Shows the probe's location (Prague, Czech Republic), firmware (5030), architecture (tl-mr3020), and MAC address (A4:28:B0:E0:09:8A).
- Configuration:** Divided into IPv4 and IPv6 sections. The IPv4 section shows current configuration (Internet Address: None, DHCP: Yes) and specified configuration (DHCP: Yes, Applied: None). The IPv6 section shows current configuration (Addresses: 2a10:2f00:10a:2076:a62b:b0ff:fee0:98a/64, ASN: 207632 (SVINE - Jan Betik), Gateways: fe80::da58:d7ff:fe00:1345, DNS: 2001:148f:ffff::1, Resolvers: 2001:148f:ffff::1).
- Probe Address Discovery:** A table showing the results of address discovery for IPv4 and IPv6.
- Map:** A map showing the probe's location in Prague, with a green pin indicating the specific location.

	IPv4	IPv6
Connection Address	-	✓ 2a10:2f00:10a:2076:a62b:b0ff:fee0:98a
IP Echo Service	-	✓ 2a10:2f00:10a:2076:a62b:b0ff:fee0:98a
The Local IP	-	✓ 2a10:2f00:10a:2076:a62b:b0ff:fee0:98a

Co je RIPE Atlas

Komunita

- Uživatelé
- Hostitelé
- Sponzoři
- Ambasadory





Jak se zapojit

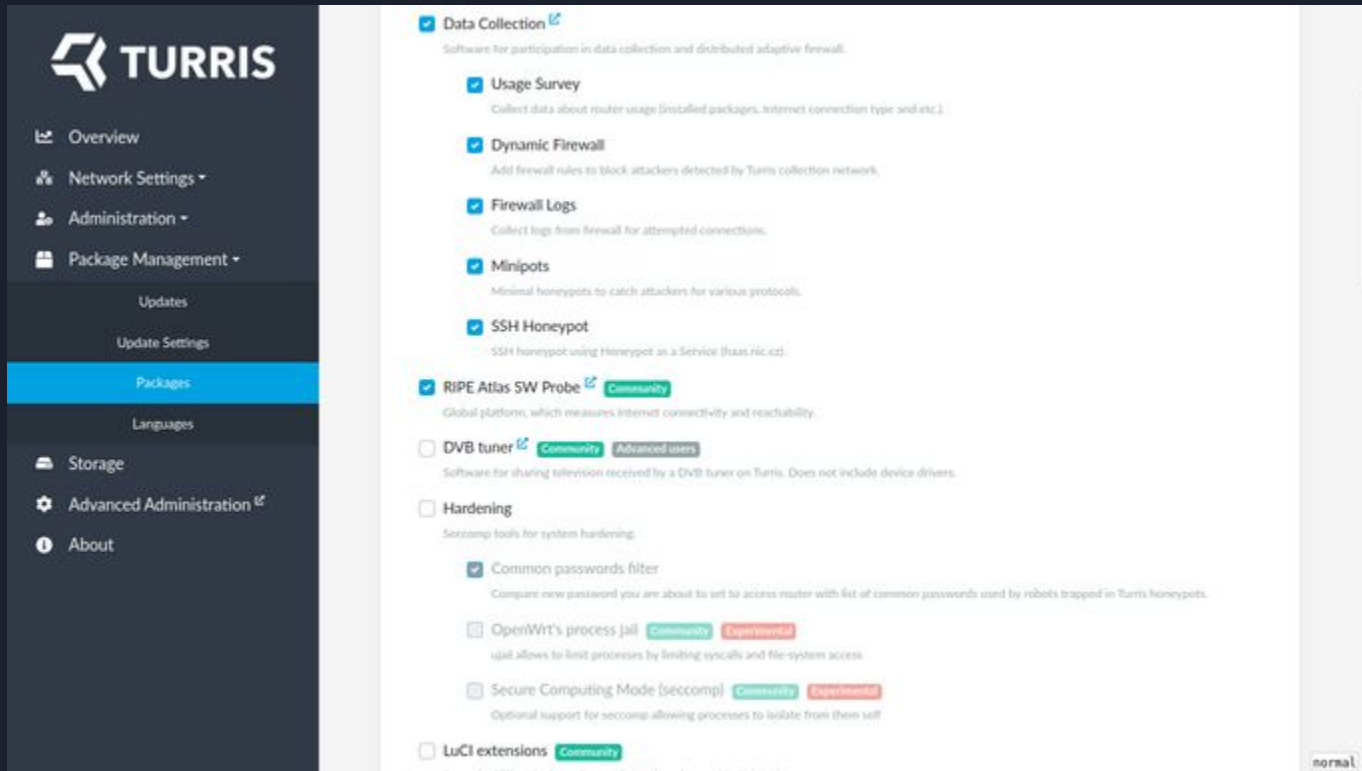
- Registrace
 - <https://atlas.ripe.net>
- Získání sondy
 - Konference (RIPE, APNIC, IETF, ...)
 - Portál RIPE
 - Instalace SW sondy
- Aktivace sondy
 - Portál RIPE



Využití RIPE Atlas

- Monitoring dostupnosti služeb
 - ping
 - HTTP GET
- Monitoring kvality služeb
 - SSL check
 - DNS check
- Monitoring přenosové trasy
 - IPv4
 - IPv6
 - RTT

Instalace SW sondy na Turris OS



The screenshot displays the Turris OS web interface. On the left is a dark sidebar with the Turris logo and navigation menu items: Overview, Network Settings, Administration, Package Management, Updates, Update Settings, Packages (highlighted in blue), Languages, Storage, Advanced Administration, and About. The main content area shows a list of software packages with checkboxes for installation. The 'Data Collection' section is expanded, showing several sub-options that are checked: Usage Survey, Dynamic Firewall, Firewall Logs, Minipots, and SSH Honeypot. Below this, other packages like RIPE Atlas SW Probe, DVB tuner, Hardening, OpenWrt's process jail, Secure Computing Mode, and LuCI extensions are listed with their respective status checkboxes and community tags.

TURRIS

- Overview
- Network Settings
- Administration
- Package Management
- Updates
- Update Settings
- Packages**
- Languages
- Storage
- Advanced Administration
- About

Data Collection [↗](#)
Software for participation in data collection and distributed adaptive firewall.

- Usage Survey**
Collect data about router usage (installed packages, internet connection type and etc.)
- Dynamic Firewall**
Add firewall rules to block attackers detected by Turris collection network.
- Firewall Logs**
Collect logs from firewall for attempted connections.
- Minipots**
Minimal honeypots to catch attackers for various protocols.
- SSH Honeypot**
SSH honeypot using Honeypot as a Service (hass.ric.kz).

RIPE Atlas SW Probe [↗](#) Community
Global platform, which measures internet connectivity and reachability.

DVB tuner [↗](#) Community Advanced users
Software for sharing television received by a DVB tuner on Turris. Does not include device drivers.

Hardening
Seccomp tools for system hardening.

- Common passwords filter**
Compare new password you are about to set to access router with list of common passwords used by robots trapped in Turris honeypots.
- OpenWrt's process jail** Community Experimental
uqad allows to limit processes by limiting syscalls and file-system access.
- Secure Computing Mode (seccomp)** Community Experimental
Optional support for seccomp allowing processes to isolate from their self.

LuCI extensions Community

normal



Instalace SW sondy na Turris OS

```
root@turris:~# service atlas get_key
Probe public key (use for registration)
URL with registration form https://atlas.ripe.net/apply/swprobe/
=====
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQCAQC67YlAXfxPawhm32X7Z01RcA36SYvdHj2MtlE39j+vKzie0I8e
Or1WSgyWE5Rz0l5A4zzM1E6eqQFZ10HcQOk0RJgPoXDUXnlEgB+jmLthzxCSPIj5M0ckCXa1R6+9p3PK
1WvBgnvAG5HUxc8mgbGcbNx1+lFAGeVHzLr+ZPs67fqwYdsE51LFDY3twMXLvnqa3usDCbDN+Y8KFNPq
buB+lEwtF/M5S7I9ePST8neKW2J37L++kCs1dRnvAYw1cVuN+Bz1XF7XMv1pogMDnU3LPBHLz+pdvUkk
z5iotVqAL+p0qLbJN/F8pOhCI9YnQf9BBZvpAAjYyQ/ZHQfL+bwzGirWY2xoTEgcx2MWVDYY+y0cC1dV
mbzQrAYFcoWXm1PlRfTKYQqb4OUyMRlG1q+JCdbJVCFUNwKL2YTvScQmpHjSZoIZ3x1/nZFCk1nPpb5Z
VzpjRBOuDV5L8rID/bCqPmqFapsjzCaeqL/lb/aXG3zlpGancPeHxlmZv3JF5MSDb7Dvihvj17jQvsIo
a/CkSpvHIIt15GNFVrpgXmrkOzTZ95mOXgy9PN4QFFFya5LUYwKx2V/cyJUjfM6OydmzQ1ABI1FEyo7A+
o1RJg5vGV7x4ZBt/CpAI2ejo3dAEXZzoIFuoQA1wV25z2gh+HFJZX8NnWAwKqbq4b9Nb7bNL/Q==
turris
root@turris:~# service atlas probeid
Probe ID is 1003120
root@turris:~#
```

<https://atlas.ripe.net>

