

WiFi here

No IPv6 support.

The screenshot shows the test-ipv6.com website. The main heading is "Test your IPv6 connectivity." Below this, there are tabs for "Summary", "Tests Run", and "Share Results / Contact". The "Summary" tab is active, displaying a list of test results:

- Your IPv4 address on the public Internet appears to be 194.254.61.41
- Your Internet Service Provider (ISP) appears to be FR-RENATER Reseau National de telecommunications pour la Technologie
- No IPv6 address detected [\[more info\]](#)
- You appear to be able to browse the IPv4 Internet only. You will not be able to reach IPv6-only sites.
- To ensure the best Internet performance and connectivity, ask your ISP about native IPv6. [\[more info\]](#)
- Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.

A progress bar shows "Your readiness score" as 0/10 for your IPv6 stability and readiness, when publishers are forced to go IPv6 only. Below the score, there is a link to "Test Data" and a note "(Updated server side IPv6 readiness stats)". At the bottom, it says "This instance of test-ipv6.com is provided by HostVirtual".

```
[dpk87@HEPDOCK151 ~ % ifconfig en0
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=400<CHANNEL_IO>
    ether 3c:22:fb:c0:ce:c9
    inet6 fe80::c9d:292c:5162:92b1%en0 prefixlen 64 secured scopeid 0x6
    inet 172.28.4.81 netmask 0xfffffc00 broadcast 172.28.7.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    status: active
```

IPv6. fe80: Link Local
No global IPv6 address

lxplus.cern.ch

Test your IPv6 connectivity.

Summary Tests Run Share Results / Contact Other IPv6 Sites For the Help Desk

- Your IPv4 address on the public Internet appears to be 188.184.111.223
- Your IPv6 address on the public Internet appears to be 2001:1458:d00:2c::100:109
- Your Internet Service Provider (ISP) appears to be CERN
- Since you have IPv6, we are including a tab that shows how well you can reach other IPv6 sites. [\[more info\]](#)
- HTTPS support is now available on this site. [\[more info\]](#)
- ✓ Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.

Your readiness score

10/10 for your IPv6 stability and readiness, when publishers are forced to go IPv6 only

Click to see [Test Data](#)

(Updated server side IPv6 readiness stats)

This instance of test-ipv6.com is provided by [AlpineDC Ltd](#)

```
ifconfig
```

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 188.185.9.179 netmask 255.255.252.0 broadcast 188.185.11.255
  inet6 2001:1458:d00:63::100:36f prefixlen 128 scopeid 0x0<global>
  inet6 fe80::f816:3eff:fea3:67c4 prefixlen 64 scopeid 0x20<link>
  ether fa:16:3e:a3:67:c4 txqueuelen 1000 (Ethernet)
  RX packets 3513506447 bytes 23389753091585 (21.2 TiB)
  RX errors 0 dropped 10 overruns 0 frame 0
  TX packets 3209026582 bytes 8166010878608 (7.4 TiB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

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[View US](#) | Share on: [Facebook](#) [Twitter](#)
or may not reflect the views of the mirror owner.

Useful quick checks

- To check IPv4 function
 - ping 1.1
 - To check IPv6 function
 - ping6 2600::
-

Literatur:

IP Version 6 (IPv6) Das neue Internet-Protokoll

-- URL: <https://www.uni-muenster.de/IT.GuidoWessendorf/vortrag/DIK2000/dik2000-ipv6.pdf>

RIPE NCC – Basic IPv6 Course:

-- URL : <https://www.ripe.net/media/documents/BasicIPv6-Slides.pdf>

Overcoming obstacles to IPv6 on WLCG

– URL: <https://indico.jlab.org/event/459/contributions/11618/attachments/9663/14087/Kelsey11may23-IPv6.pdf>

WLCG IPv6 Task Force

-- URL: <https://twiki.cern.ch/twiki/bin/view/LCG/WlCgIpv6>

HEPiX IPv6 working group

– URL: <https://hepixonweb.cern.ch/>

National Security Agency – Cybersecurity Information Sheet

-- URL: https://media.defense.gov/2023/Jan/18/2003145994/-1/-1/0/CSI_IPV6_SECURITY_GUIDANCE.PDF

Scientific network tags (scitags) / Flow lable Packet marking

-- URL: <https://www.scitags.org/> +

-- URL:

https://indico.cern.ch/event/1115437/contributions/4691847/attachments/2375614/4058049/Scientific%20Network%20Tags_%20Packet%20and%20Flow%20Marking%20%281%29.pdf

How to begin an IPv6 deployment

-- URL: <https://www.jisc.ac.uk/guides/how-to-begin-an-ipv6-deployment>

Mission ImPossible Turning IPv4 Off in an Enterprise Network (IPv6 mostly) -- Jen Linkova (Google)

-- URL: https://www.ipv6.org.uk/wp-content/uploads/2023/11/13_IPv6-Mostly-Office_-JenLinkova_UK-IPv6-Council-2023.pdf

UK IPv6 Council: 464xlat for mobile operators

-- URL: UK IPv6 Council: 464xlat for mobile operators

RFC

IP Version 6 Addressing Architecture -- URL: <https://datatracker.ietf.org/doc/html/rfc4291#section-2.5.1>

Internet Protocol, Version 6 (IPv6) Specification -- URL: <https://www.rfc-editor.org/rfc/rfc8200>

Using the Flow Label Field in IPv6 – URL: <https://datatracker.ietf.org/doc/html/rfc1809>

IPv6 Deployment Status – URL: <https://datatracker.ietf.org/doc/html/rfc9386>

Path MTU Discovery for IP version 6 -- URL: <https://datatracker.ietf.org/doc/html/rfc8201>

Packetization Layer Path MTU Discovery for Datagram Transports – URL: <https://datatracker.ietf.org/doc/html/rfc8899>

Recommendations for Filtering ICMPv6 Messages in Firewalls – URL: <https://datatracker.ietf.org/doc/html/rfc4890>

Application Aspects of IPv6 Transition -- URL: <https://datatracker.ietf.org/doc/html/rfc4038>

Link-Local Multicast Name Resolution (LLMNR) –URL: <https://www.rfc-editor.org/rfc/rfc4795>

Handling of Overlapping IPv6 Fragments -- URL: <https://datatracker.ietf.org/doc/html/rfc5722>

464XLAT: Combination of Stateful and Stateless Translation -- URL: <https://datatracker.ietf.org/doc/html/rfc6877>

Neighbor Discovery for IP version 6 (IPv6) -- URL: <https://datatracker.ietf.org/doc/html/rfc4861>

Recommendation hfor IPv6 Address Text Representation -- URL: <https://datatracker.ietf.org/doc/html/rfc5952>
