



WHAT IS IPV6?

IPv6 stands for “Internet Protocol Version 6” the successor of IPv4 – “Internet Protocol Version 4”, on which most of the Internet currently runs. It has been created as the long-term solution to forecasted IPv4 depletion.

Afrinic Is your Information Source On IPv6 Deployment

AFRINIC's priority is to help facilitate IPv6 deployment in the region by:

- Sharing IPv6 related information and promoting members IPv6 experiences and sharing in the African Region.
- Promoting the steps to running IPv6 within communities' networks
- Building capacity in planning and deploying IPv6 networks
- Sharing case studies and best practices in IPv6 deployment
- IPv6 address allocation and maintaining reverse IPv6 zone
- Encouraging IPv6 implementation experiences through our meetings, trainings, IPv6 dedicated websites, IPv6 mailing lists, and IPv6 regional webinars and forums.

ADVANTAGES OF ADOPTING IPV6?

IPv6 addresses are based on 128 bits whereas IPv4 addresses are based on 32 bits.

- Network administrators can define the visibility of each IP address based on preference. This allows companies to keep IP addresses public, but still secure when transmitting between private networks.
- As more and more businesses are supporting VoIP, telework (i.e. videoconferences) and mobile work policies, removing dependency on network address translation (NAT) can dramatically increase network simplicity.
- Deploying IPv6 infrastructure can also help businesses improve network performance and assure optimal performance within the network architecture.
- There are not enough unique addresses to give every mobile device a true end-to-end Internet presence. IPv6 is the only technology currently available to directly connect large numbers of people and devices.
- By returning the Internet to an end-to-end model, IPv6 will unleash new opportunities and waves of innovation.

GETTING STARTED WITH IPV6

Through AFRINIC community platforms and trainings, AFRINIC assists its members and community with issues regarding transition mechanisms. AFRINIC advises a smooth transition in an already existing environment without interrupting or degrading prevailing services.

- Perform a system-wide audit of your equipment, connections and applications to identify which elements are IPv6 ready and which ones are not.
- Plan and apply for your IPv6 address space from AFRINIC.
- Training your network and systems administrators as well as content developers.
- Request IPv6 connectivity with network providers.
- Create an IPv6 implementation plan that caters for the needs of both IPv4 and IPv6 customers and get executive management approval for the plan. The plan should contain detailed specifications, timelines, human and financial resources needed.
- Build a testing network that features the key elements of your existing infrastructure. IPv6 outreach programme

TRAINING

AFRINIC has a very active IPv6 Training programme to promote IPv6 usage and best experiences. Since 2004, the programme has trained more than 2,000 people. AFRINIC's training programme develops capacity free of charge in our community.

To find out about how you can host one of our workshops, sponsor one or find out and register for a training or e-Learning modules, please visit : learn.afrinic.net

GET INVOLVED

www.afrinic.net/IPv6 IPv6 at AFRINIC

hostmaster@afrinic.net To request IPv6 address space

afripv6-discuss@afrinic.net To participate to IPv6 forum discussion

ipv6-dicuss@afrinic.net Join the mailing list

www.AF6TF.net Join the African IPv6 Task Force

