Server

How many IP addresses can be used in an IPv6 address block?

The number of maximum usable IPs in an IPv6 address block results of the network prefix.

For example:

/128 = 1 IPv6 address

/64 = 1 IPv6 subnet = 2^{64} possible IP addresses

Further information can be found directly under:
http://www.ripe.net/internet-coordination/press-centre/understanding-ip-addressing.

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URL: https://faq.euserv.com/content/1/284/en/how-many-ip-addresses-can-be-used-in-an-ipv6-address-block.html