

Key Acronyms:

Inet(6)num	IPv4 or IPv6 block
Aut-num	Autonomous System Number (ASN)
Mnt-by	Maintainer

Key Definitions:

Maintainer	Used to protect objects and associated with authentication either password, x509 or PGP key.
Route(6)	Describes routing information about specific IPv4(6) range intended to be advertised to Internet.
AS-Set	Describes set/collection of Aut-num(ASNs) which usually identifies the origin of all the prefixes that will be advertised by the organisation's ASN and the ASN's you provide transit to.

Pre – Requisites:

Inetnum or Inet(6)num	The IPv4(6) prefix to be specified in the route object must be an exact match or a more specific prefix of the prefix delegated by AFRINIC
Aut-num	The ASN that shall originate the IPv4 or IPv6 prefix. ASN delegated by any RIR and registered in one RIR whois database can be used.
Maintainer	The maintainer referenced as the mnt-lower or mnt-routes in the IP resource objects (inetnum or inet6num)

Guides before route creation

Prefix(es)	Ensure that an inetnum/inet6num object exists in the AFRINIC WHOIS database This can be queried on http://whois.afrinic.net . If the mnt-lower or mnt-routes is AFRINIC-HM-MNT, please contact us at irr@afrinic.net .
Aut-num	Get the autonomous system number(ASN) that shall originate the IPv4 or IPv6 prefix
Maintainer	The plain text password should be provided for the ‘mnt-lower’ or ‘mnt-routes’ inorder to allow the creation of the route object. If you do not currently hold the password; follow the steps[1], and send the encrypted password to irr@afrinic.net .

[1]

Go to <https://afrinic.net/whois/utilities> - crypt

Input the new password you wish to use for the maintainer you mentioned

Click on "Generate hash".

Send us the encrypted hash that will be generated. It will be used to reset your Maintainer object.

NB: Password requests are accepted only from registered contacts

Example 1: Route object for 196.192.48.0/20 with AS327800 as the origin		Go to whois.afrinic.net > create > route object
Step 1	Query the inetnum on whois	route: 196.192.48.0/20 descr: Route Object Example 1 origin: AS327800 mnt-by: EXAMPLE-MNT changed: email@example.com (your e-mail ID) source: AFRINIC Password: <plain text of EXAMPLE-MNT>
Step 2	Get the mnt-lower/mnt-route	
Step 3	Know the ASN	
Step 4	Build your route object	

Example 2: Route object for 2c0f:f790::/32 with AS327800 as the origin		Go to whois.afrinic.net > create > route object
Step 1	Query the inet(6)num on whois	route6: 2c0f:f790::/32 descr: Example Route 6 Object origin: AS327800 mnt-by: EXAMPLE-MNT changed: email@example.com (your e-mail ID) source: AFRINIC Password: <plain text of EXAMPLE-MNT>
Step 2	Get the mnt-lower/mnt-route	
Step 3	Know the ASN	
Step 4	Build your route object	

Example 3: Create AS-SET		Go to whois.afrinic.net > create > AS-SET	
<pre>as-set: as-example descr: an as-set example tech-c: your nic-hdl admin-c: your nic-hdl mnt-by: your-mnt changed: email@example.com source: AFRINIC</pre>			
Password: <plain text of your-MNT>		as-set	Defines the name of the set which must start with ‘as-’. It can be a hierarchical name with components separated by a colon (‘:’). At least one component must be an as-set name.
		descr	A short description related to the object
		tech-c/admin-c	NIC Handle, of either a role or person object. This contact may be a single person, or it may be a role within the organisation
		mnt-by	Specifies the maintainer of your organization to protect the route object. In most cases the “mnt-by” will be same as the “mnt-lower” in the inetnum/inet6num and the “mnt-routes” in the aut-num object

Complete AFRINIC IRR Guideline on

<https://www.afrinic.net/internet-routing-registry#guide> or <http://bit.ly/irr-afrinic>