***Configuring static ipv6 default and network routes***

First we are going to create a default route on R! and a static route for R2 on networks 2,3 and another static default route on R#

Connecting to R1

R1># ipv6 route ::/0 2001:db8:6783:12::2 (creates a default route to the next hop on router 2)

R1># ipv6 unicast-routing

Tells the other routers using unicast which is a peer-to-peer communication that this router uses ipv6 routing.

we can now see our routes using

R1># show ipv6 int brief

R1># show ipv6 interface

Now we are going to switch to R2 and create two static routes going to R1 and R3.

First We are going to enable IPv6 unicast routing on the routers to tell all other routers that this router is a IPv6 router

R2>#ipv6 unicast-routing

Now lets add the static route to R1. HE we have the destination ip and the next hop address to get there. You could also add the administrative distance on the end but this does not need that.

R2>#ipv6 route 2001:db8:6783:1::/64 2001:db8:6783:12::1

Lets also add the static route to R3

R2>#ipv6 route 2001:db8:6783:3::/64 2001:db8:6783:23::3

R2>#show ipv6 route static

Now lets add the default route to R3

R3># ipv6 unicast-routing

R3># ipv6 route ::/0 2001:db8:6783::2

R3># show ipv6 route static

Now from R1 we can test that the ping works and connects to the network on R3 by doing.

Ping 2001:db8:6783:3::3