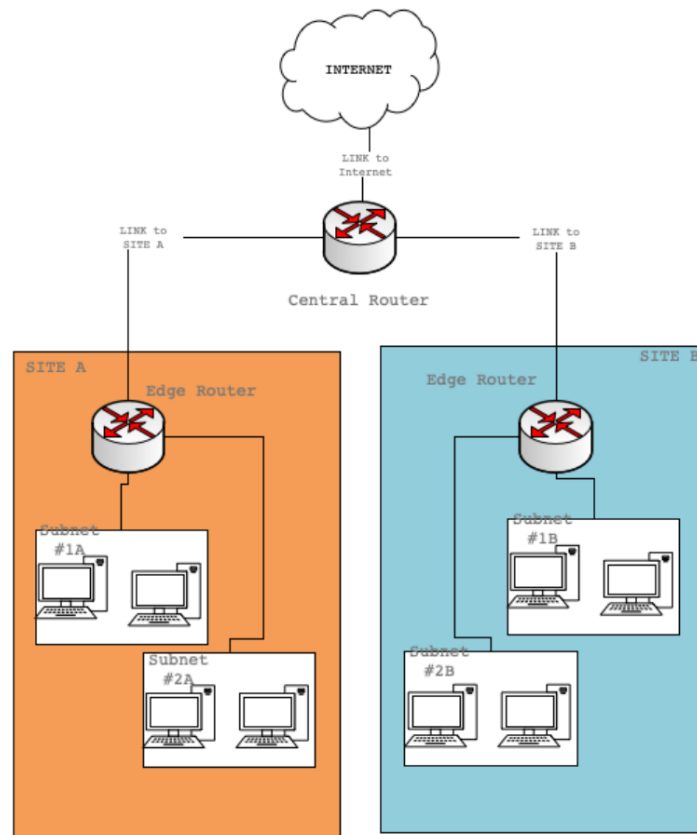


## Home assignment network engineer

We want to offer to our customers a site-to-site connectivity service as shown below.



All Elements must be deployed as containers inside an ubuntu host. The provisioning of the containers and the configuration of the routers must be automated. For the depicted routers VyOS has to be used. The configuration of the routers has to be done via API.

### Interconnection Requirements:

- Each site depicted must simulate two segregated networks/subnets, containing two client machines.
- The Edge Router on site A must communicate with the Central Router using an overlay network. IPsec must be used for this connection.
- The Edge Router on site B must communicate with the Central Router using an overlay network. VXLAN must be used for this connection.
- Subnet1A and Subnet2A on site A can communicate via routing to each other. The same applies for the Subnets on site B.
- All hosts in Subnet1A on site A can reach via routing all hosts in Subnet1B on site B, and vice-versa. The same applies for Subnet2(A/B) on site A and B.
- The Central Router provides NAT to the INTERNET. Only Subnet1A and Subnet1B can reach the internet.