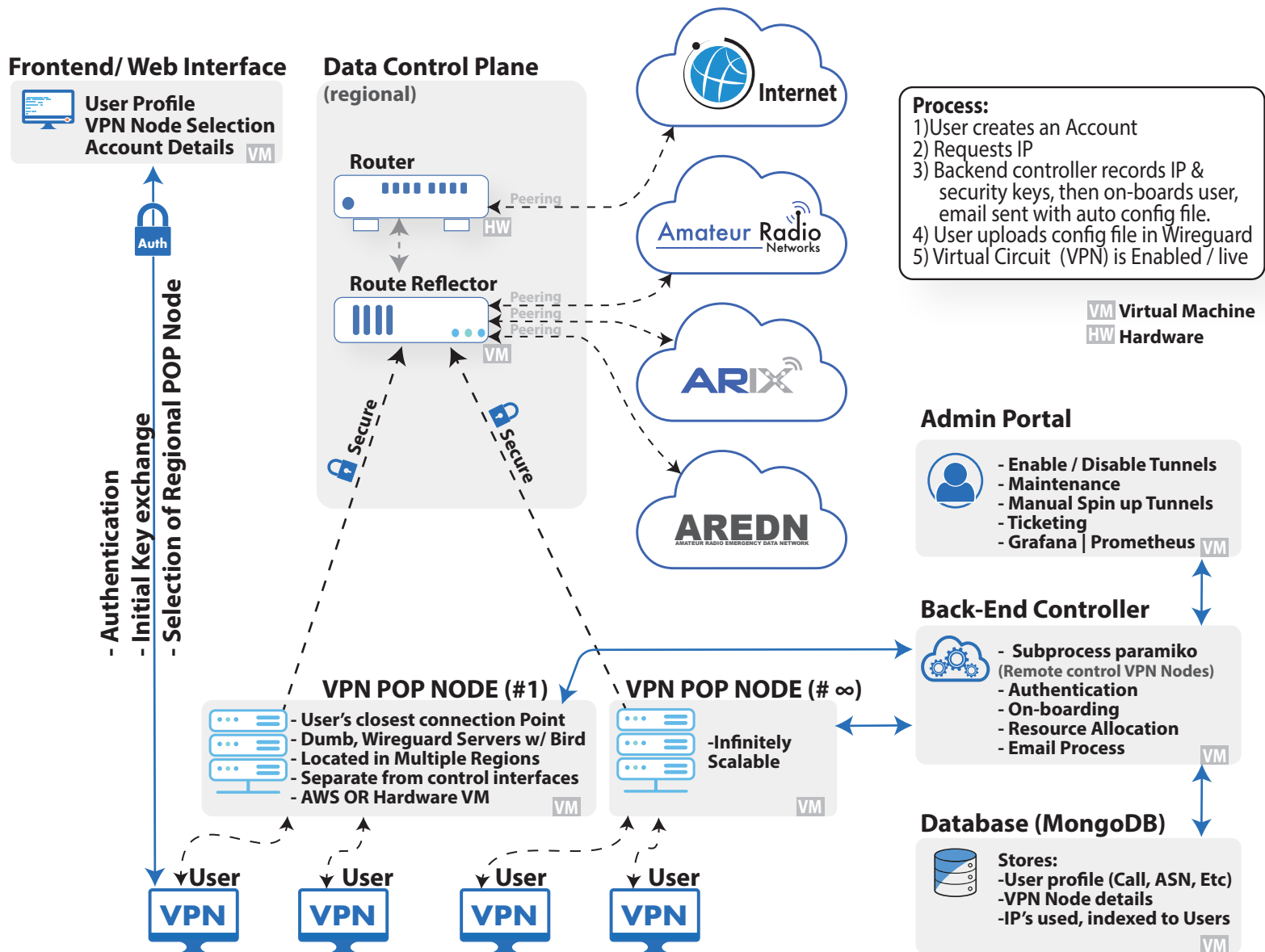


Architecture Overview



MVP (Minimal Viable Product)

- User's Initial Authentication & Key Exchange Performed on Frontend web interface.
- Back-end remotely controls nodes: insert Keys & User IP into wireguard on VPN POP Nodes.
- Subsequent connections to 'same' VPN node doesn't require Web portal, Back-end, or Database.
- Any interruptions of controller nodes, doesn't interfere with user connectivity.
- Single point connection to join all Ham Networks, no technical skills needed.
- User receives Publicly Route-able IP.
- User can join one or all connected networks and will be given IP's from other requested networks
- IP netmaps used to translate IP between different networks (maintains networks IP space isolation).
- User doesn't need to understand how to connect to any of the other networks--- plug and play.
- Users can explore networks only reachable via 44net.cloud.
- Take IP anywhere. (Re-establishes Virtual Link automatically, even behind double NAT networks)
- Use Internet at the same time as accessing ham nets.
- Remotely control IP device's such as Ham Rigs and Raspberry Pi, from anywhere in the world.
- Connection is encrypted from user device all the way back to Pop Nodes in Datacenter
- Since Data is securely sent, its great for using wifi in Airports and Coffee shops.
- Users can announce their own BGP prefix through the Virtual Links.
- DIYers can Experiment with prefix announcement.
- No hardware needed. Wireguard software is auto configured with auto-generated QR-code / File.
- Users can put a toe in, without needing hardware, and gets immediate access to various Hamnets.
- For a more advanced connection, Mikrotik, GL-inet, raspberry pies can be used as routers.