**Akashic Validator Node Setup Manual**

**Node Requirements**

1. **Validator Requirements**  
   a. Anyone who stakes no less than 100,000 AKC is eligible to become a validator.  
   b. There are 31 Akashic validator nodes, and only the top 31 by staking amount can become actual validators and earn block reward revenue.
2. **Delegator Requirements**  
   Anyone can delegate AKC to a validator node.
3. **Hardware Requirements**

3.1 **Node Specifications**  
**Recommendation**: Use NVMe SSDs to avoid falling behind in block production and entering jail.

| **Node Type** | **CPU** | **Memory (GB)** | **Data Disk (GB)** |
| --- | --- | --- | --- |
| Core Validator Node | 4 CPUs | 16 GB | 300+ GB Data Disk |
| Full Node | 4 CPUs | 12 GB | 300+ GB Data Disk |
| Archive Node | 4 CPUs | 12 GB | 3+ TB Data Disk |

3.2 **Network Requirements**

| **Node Type** | **Port** | **Protocol** | **Public Required** |
| --- | --- | --- | --- |
| Validator Node | 26656 | TCP | Yes |
| CometBFT | 26657 | TCP | Optional |
| EVM RPC - HTTP | 8545 | TCP | Optional |
| EVM RPC - WSS | 8546 | TCP | Optional |
| Cosmos RPC | 1317 | TCP | Optional |

3.3 **Operating System**  
Ubuntu Server 24.04 LTS x86\_64

**Validator Node Setup Process**

1. Create User
2. Create Working Directory
3. Download akashicored
4. Initialize Data
5. Synchronize Akashic Network Data
6. Configure Auto-Start Service
7. Set Limits for Open Files and Processes
8. Download and Modify Configuration Files
9. Monitor Network Health Status
10. Manually Upgrade the Akashic Network
11. Become a Validator Node