

Proposed Monitoring Architecture (3–5 Years Outlook)

Target Scale

- **Hosts:** Up to 15,000
- **Services:** Up to 150,000
- **Expected Growth:** ~3x from current capacity

2. Hardware Sizing

Y-o-Y Resource Requirement Projection (Main Server):

Year	Hosts	Services	CPU (vCores)	RAM (GB)	/ (GB)	/data (TB)
May'25	5500	40000	64	64	300	2.6
+1 Year	6500	60000	80	80	400	3.5
+2 Year	8000	80000	96	96	450	4.0
+3 Year	10000	100000	112	112	500	4.5
+4 Year	12500	125000	128	128	550	5.0
+5 Year	15000	150000	128–144	128–144	600	5.5

Probes

Note: Add two more probes (**5000 devices on each probe**) with the same specs as current for horizontal scalability.

Component	Existing	Proposed
/	500 GB	500 GB
/data (drbd)	500 GB	500 GB
RAM	32 GB	32 GB
vCPU	40	40

Probes: Each additional probe requires a separate license (typically "Enterprise Edition" e.g., Nagios XI Enterprise or equivalent).