



TABLE 1: HIGH AVAILABILITY CAPABILITY BY ARCHITECTURE

Capability by Architecture

ARCHITECTURE	REDUNDANCY	FAILOVER SPEED	OPERATIONAL RISK	HA STRENGTH
SINGLE-INSTANCE	None	N/A	Very High	Weak
BASIC HA (LB + REPLICAS)	Partial	Minutes	High	Medium
ENGINEERED HA (MULTI-LAYER)	Full	Seconds	Low	Strong
GOVERNMENT-GRADE HA	Full + audited	Seconds	Very Low	Excellent
+++++	+++++	+++++	+++++	+++++
+++++	+++++	+++++	+++++	+++++
+++++	+++++	+++++	+++++	+++++
KEY INSIGHT: HA only works when every critical layer (compute, network, storage, identity) is redundant.				