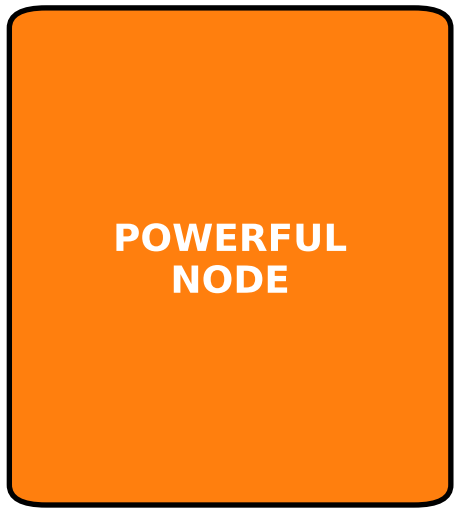
Scaling Approaches: Trade-offs in Design

VERTICAL SCALING

(Scale Up)



Bigger blocks

Faster processing

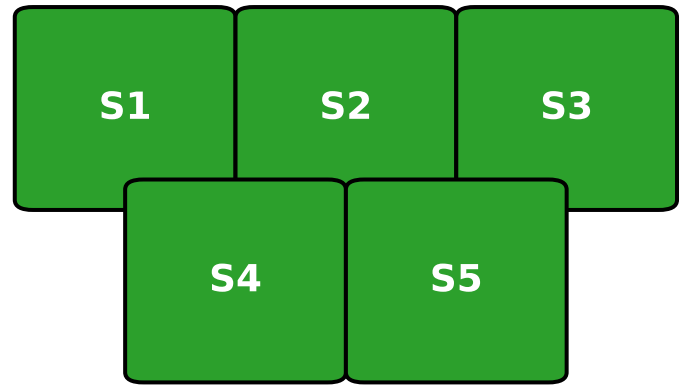
Higher hardware req.

Examples: Solana, EOS

Centralization risk

HORIZONTAL SCALING

(Scale Out)



Parallel processing

Preserved decentralization

Complex coordination

Examples: Sharding, L2

Preserves decentralization