

Scalability  * to ensure our service maintains 2 solutions	East speed we have
Doug bigger machines  1 server of more ran harddrive CPU etc  Vertical Scaling	* since there are more machines large amounts of requests can be handled and the service remains first horizontal scaling
vertical scaling  Huge Box	horizontal scaling
- No load balancing required blc it's a single machine	- Load Balancing required to every distribute the work between all the machines
- single point of failure	- If a single machine fails, you can redirect the requests else where
- Interprocess Communication (fast)	- Network calls (RPC) - (S(out) Remote Procedure
- Data Consistency is an issue * lose transactional guarantee  you lose data when bouncing it  from server to server	- Data is consistent b/c it ours on a single machine
- This scales almost linear as users increase so do servers	- Hardware limit at some point carif just Keep increasing

How do we	pick?				
We choose	both -> we	take good	I qualities f	rom vertical	scaling
	- d	ast inter ata consist	process communency	nication	
	→ we	take god	ed qualities from	Horizontal Scaling	
	- So	cales well esilient ->	l back-up servers	there in case of a	crash
	ilution is ess			scaling only	
where each	th machine is	maxed or	74		
* initially	you shalld s	fart verti	ically, then	as your use	rs