	Intra VM	S3	EBS	EFS	RDS	DynamoDB	Glacier
PRO	Speed Fast Dev/ Prototype 1	large data 2	8 3	Well-known interface NFSv.3 4	#13 Well-known interface s SQL 5	Scalability performance 6	$$ 7
CON	VM Death? Data Death? Scalability 8	#13 9	limited to 1 VM 10	lack of state 11	Scalability 12	poor analytics [aggregates] 13	SLOW 14

Data-Hybrid/Enterprise

Enterprise(AWS (Public Cloud)   MULTI-TB

○ ⟶ ① Gateway Device
      ② SNEAKERNET   AKA (SNOWBALL)
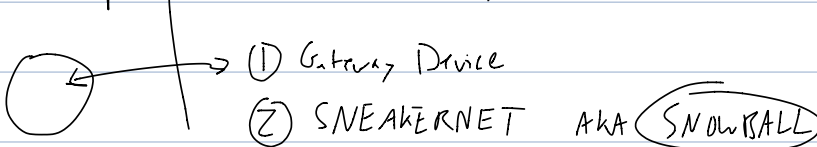
$\underline{SCALE}$ = size of application (implies large) ⎫
$\underline{SCALING}$ = action of inc/dec size   ⎬ INFORMAL
$\underline{SCALABILITY}$ = Property of software (can enhance scalability) ⎭

0.3s   0.7s

WS   RDS   throughput = $\frac{?\,\text{req}}{2\,s\alpha}$ = 1 req/s
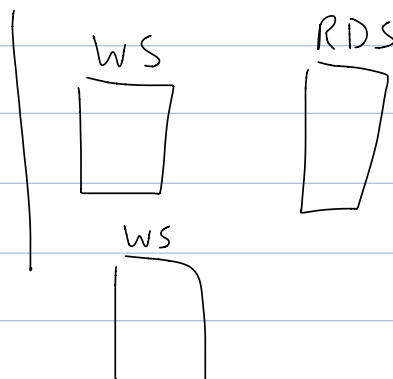
WS   throughput = $\frac{?\,\text{req}}{1.7s}$ = 1.176 req/s

$\frac{1}{0.7}$ = 1.488 req/s
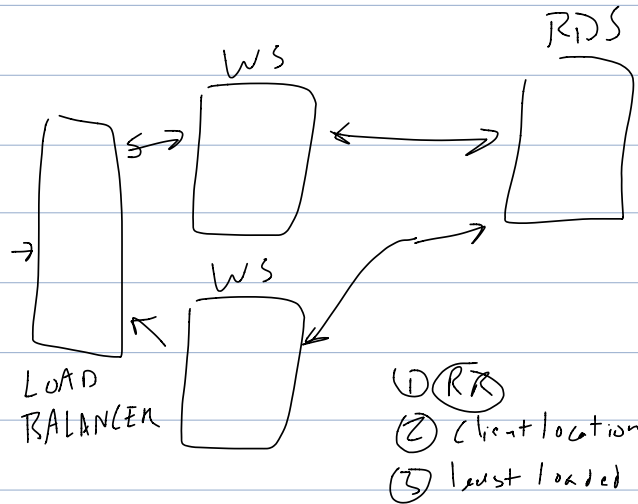
Amdahl's law

NOT ALL APPS CAN BENEFIT FROM THE CLOUD
TSP   cloud?

polynomial?

$f(\text{Complexity} + N)$

factorial - aka exponential

WS

RDS

WS

LOAD
BALANCER

① RR
② Client location
③ least loaded

PA2 Part 1
Part 2 - Autoscale
1) What? OJ, AMI
2) Where?
3) Conditions - Up? Down?

Part 3
↳
measure