

a tale about scale

Norbert Hartl - ApptiveGrid

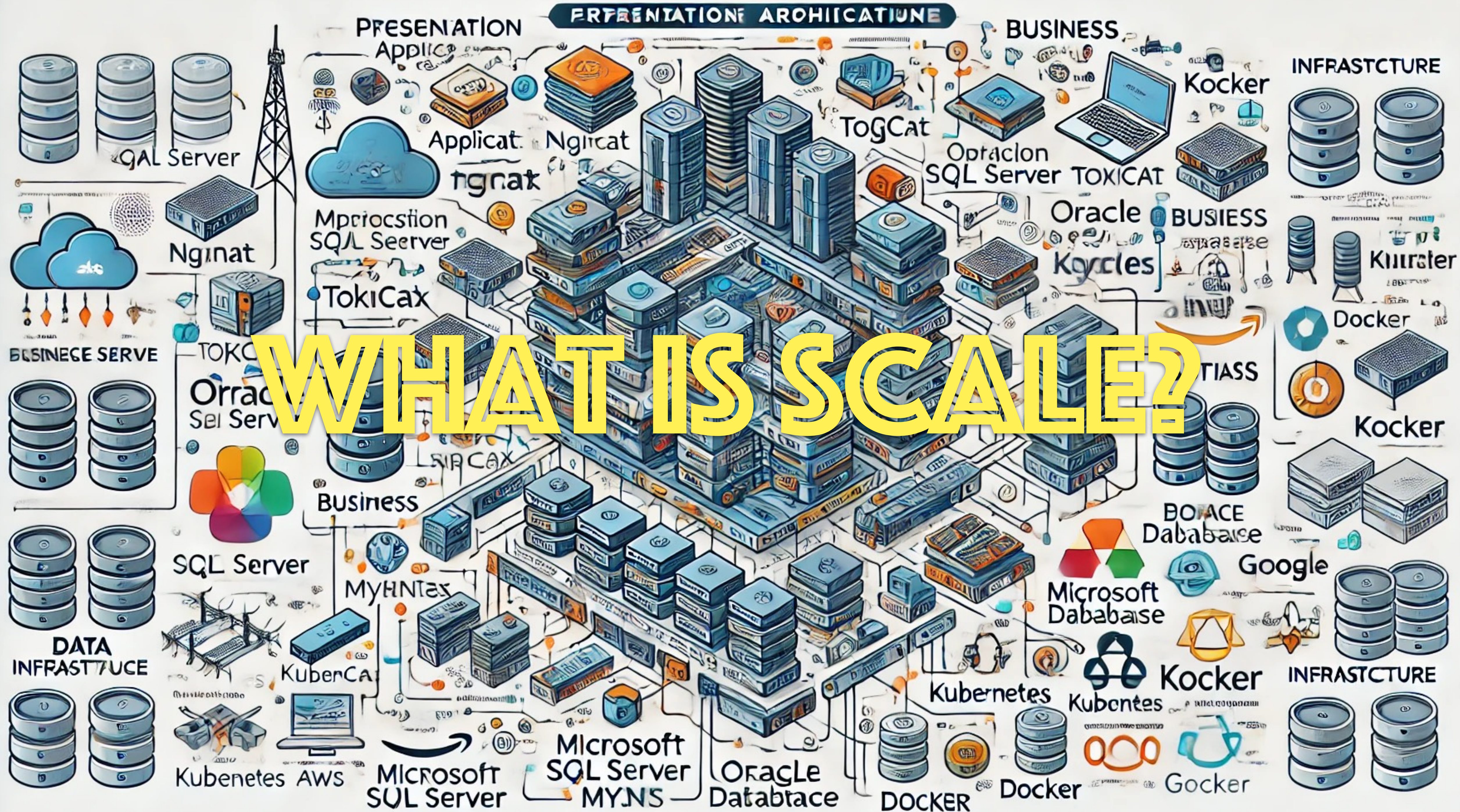
a tale about scale

caution: only remotely technical

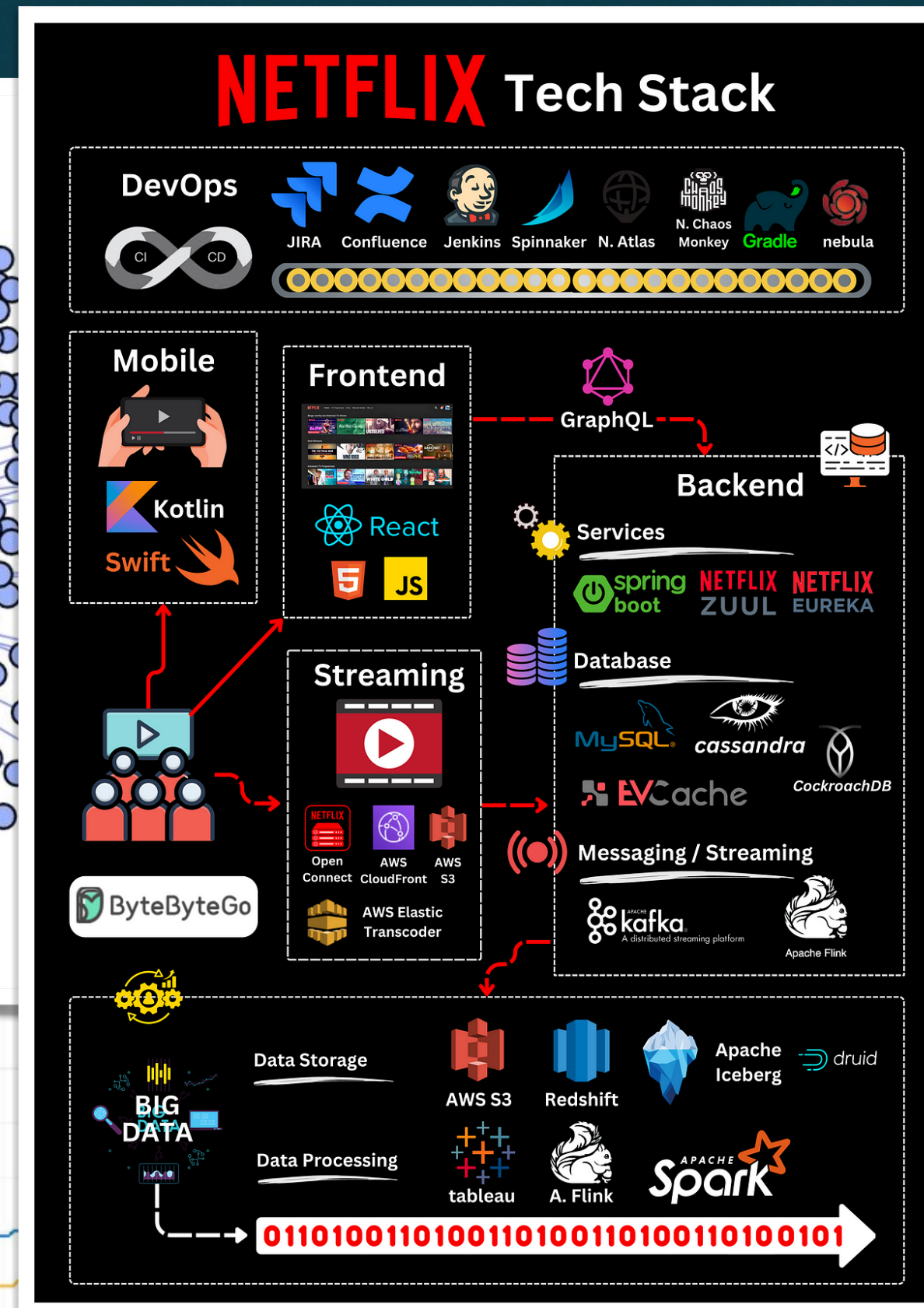
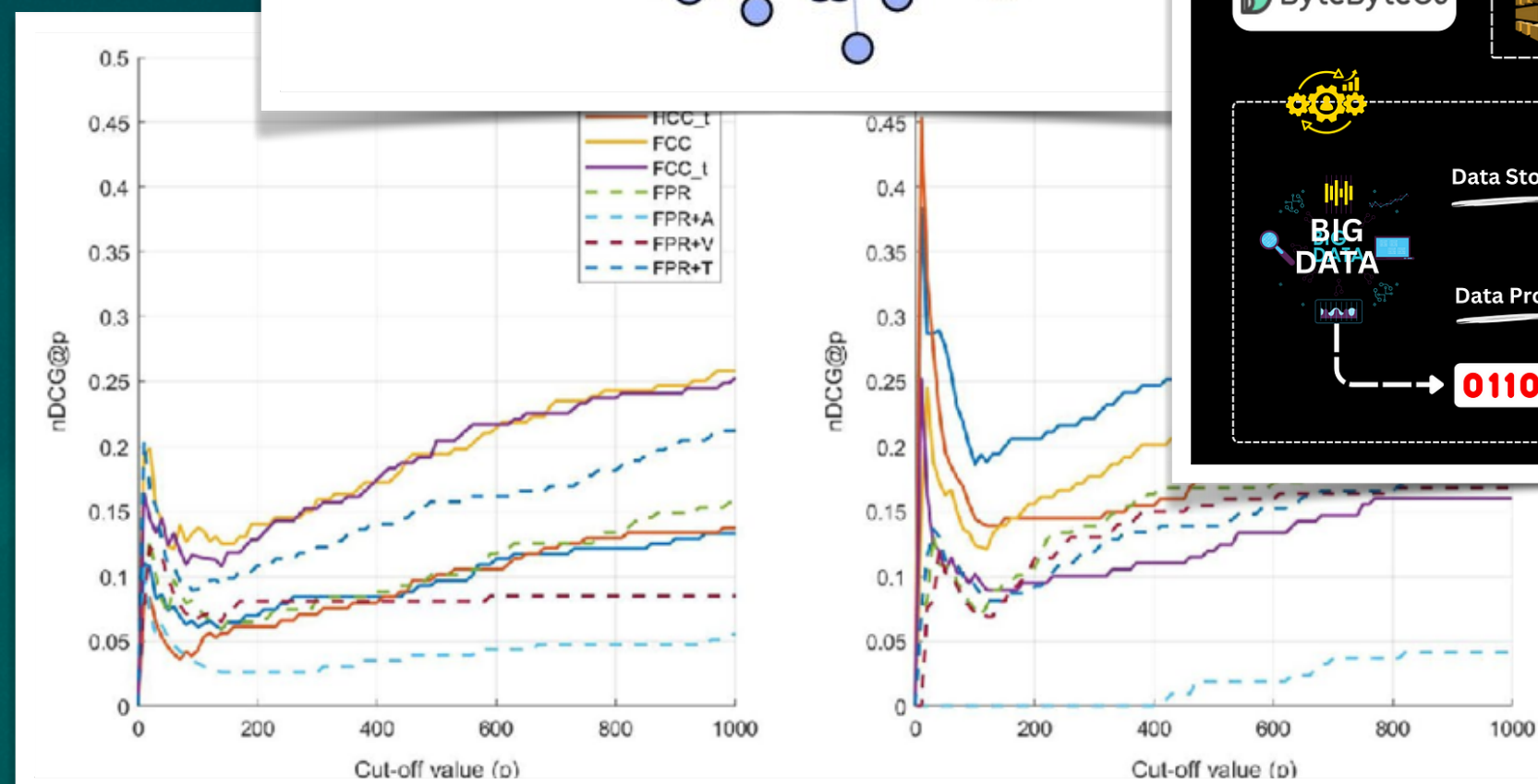
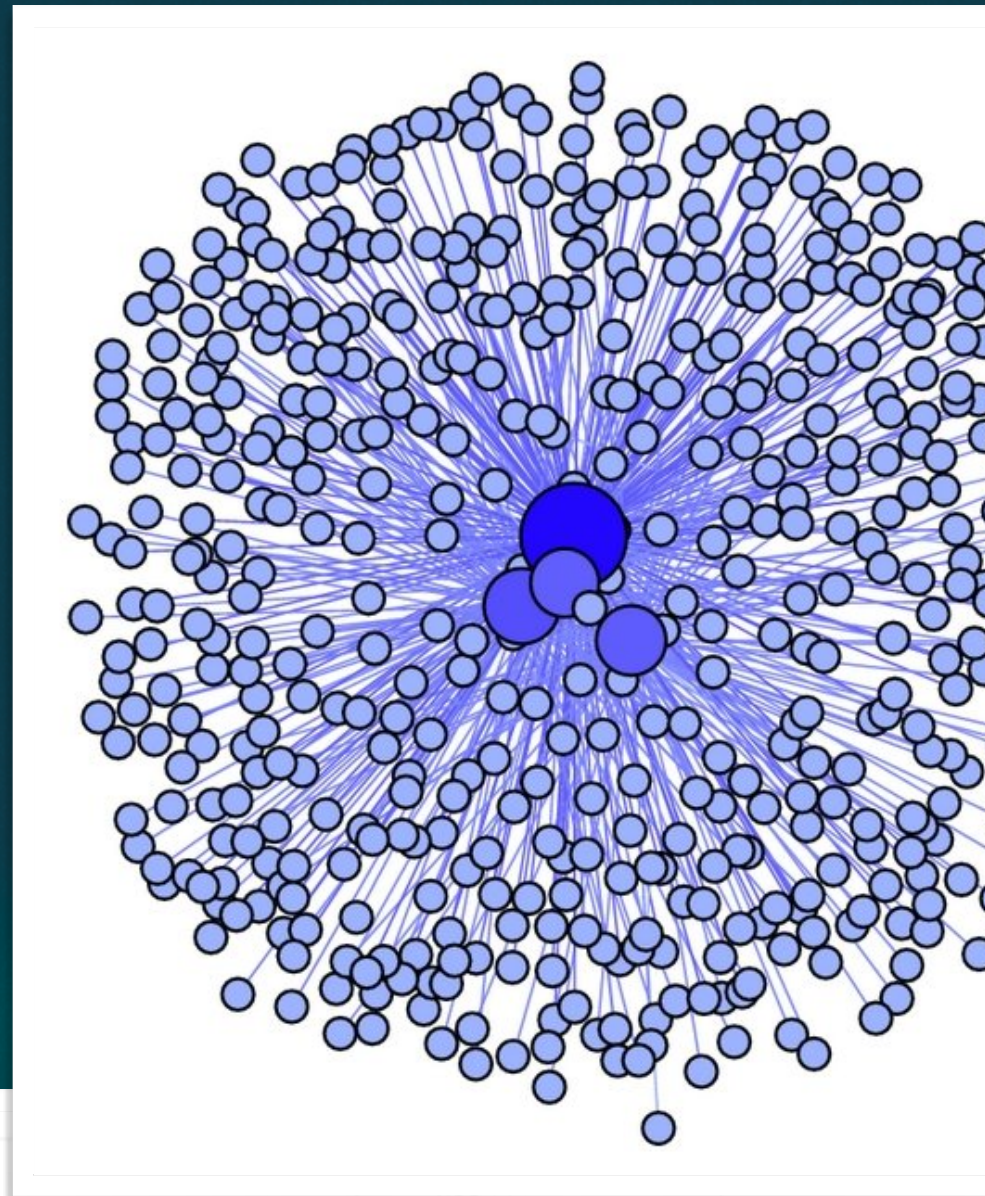
**I'm talking about
pharo in practice**

Pharo days 2015





technical scale





keeping focus - CPM model

CPM model

- Computer
- Pharo
- Me





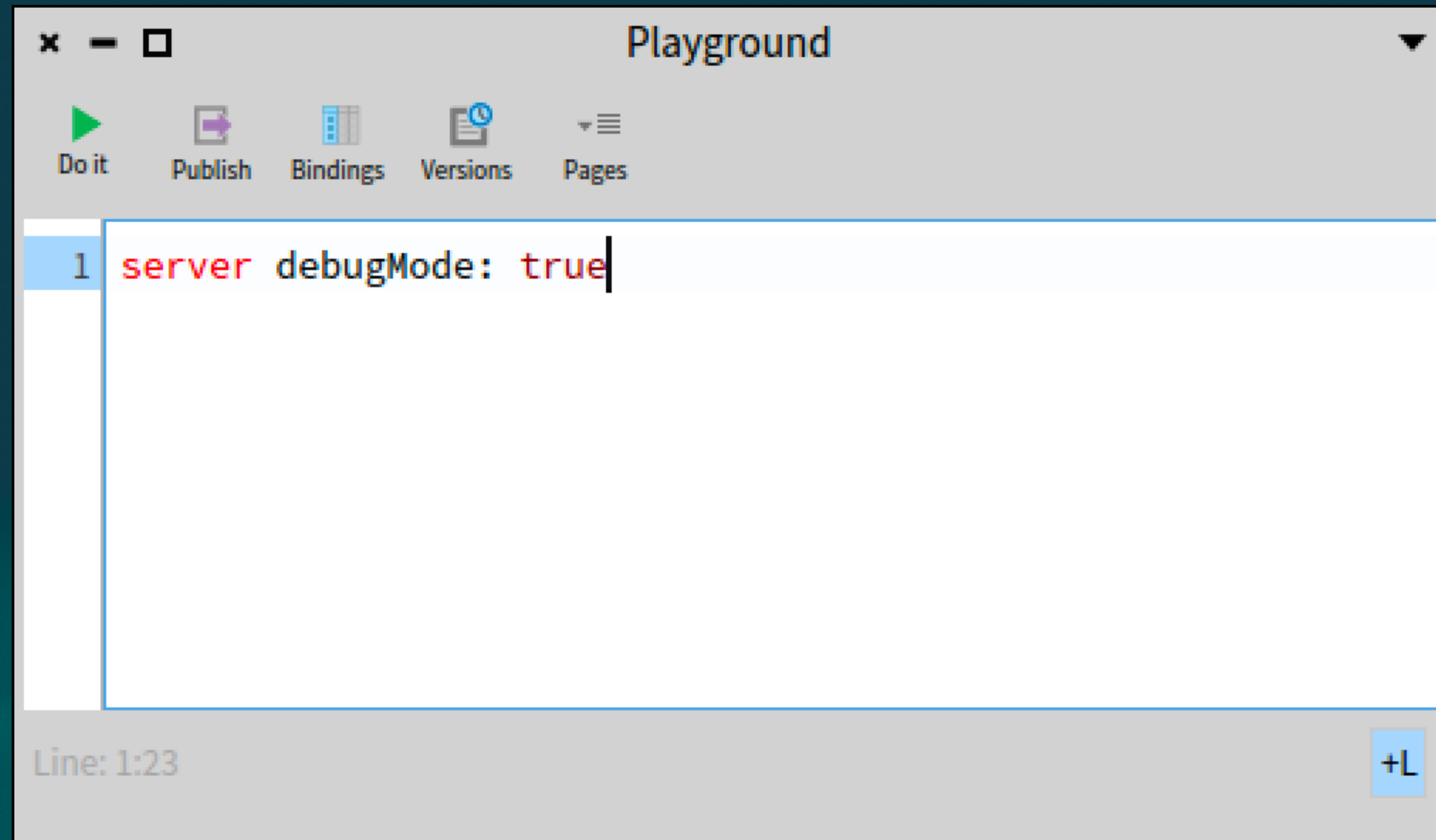
team scale



two laptops
on a network



debugging



Repeat



DOS attacks



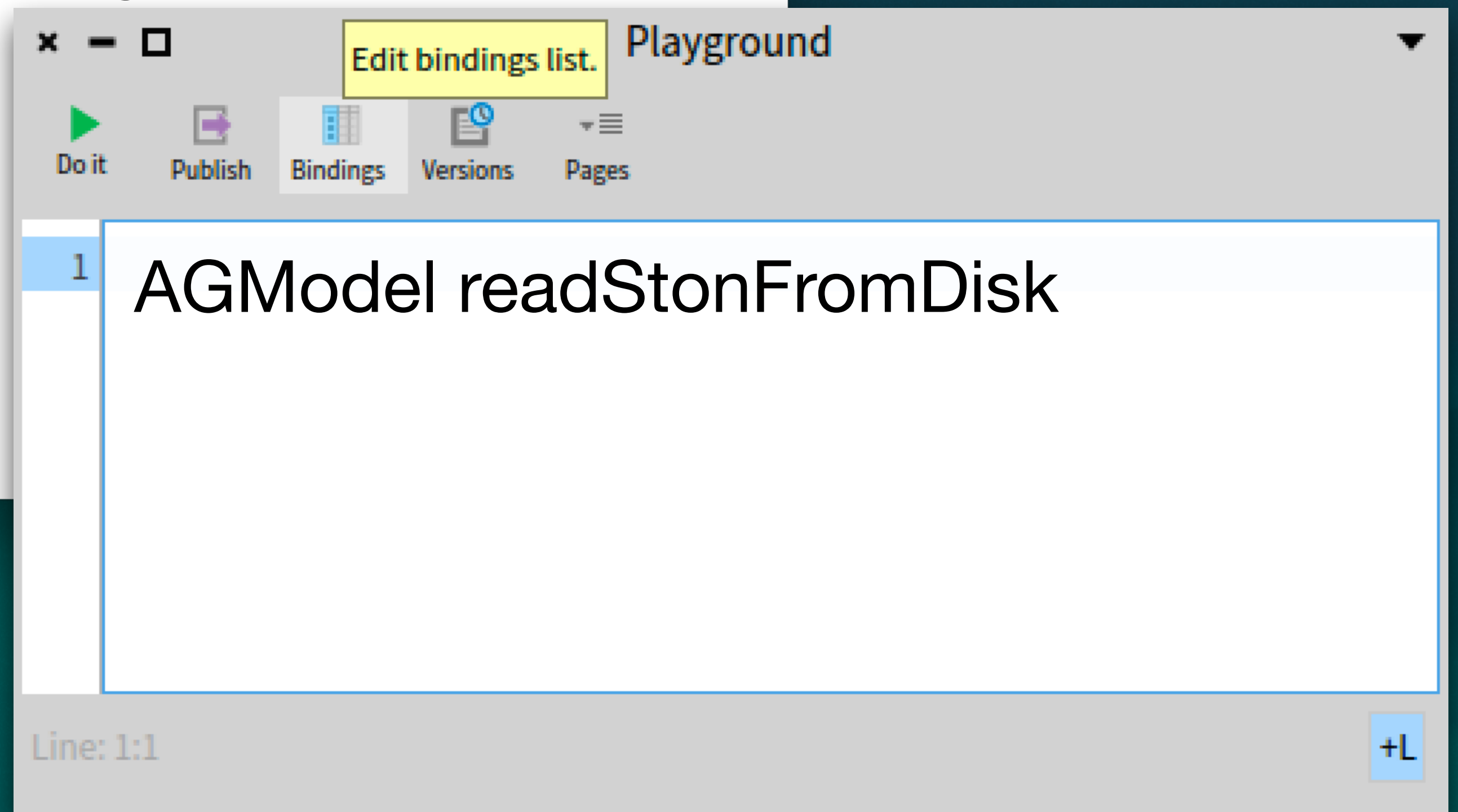


deployment scale

```
local$ scp ApptiveGrid.* backend-server:
```

```
local$ ssh backend-server
```

```
backend-server$ restart-image.sh
```





deployment scale

- use database
- add migration
- do backups





team scale

- issue tracker
- code repository
- development process (pull requests, review,...)
- CI pipeline building artefacts
- artefact management
- deployment scripts





approx. 5000 users

resilience

resilience

- images can crash

resilience

- images can crash
- You need more images

resilience

- images can crash
- You need more images
- You need a load balancer

resilience

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- You need a load balancer
- Machines can also fail

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- The load balancer machine can fail

resilience

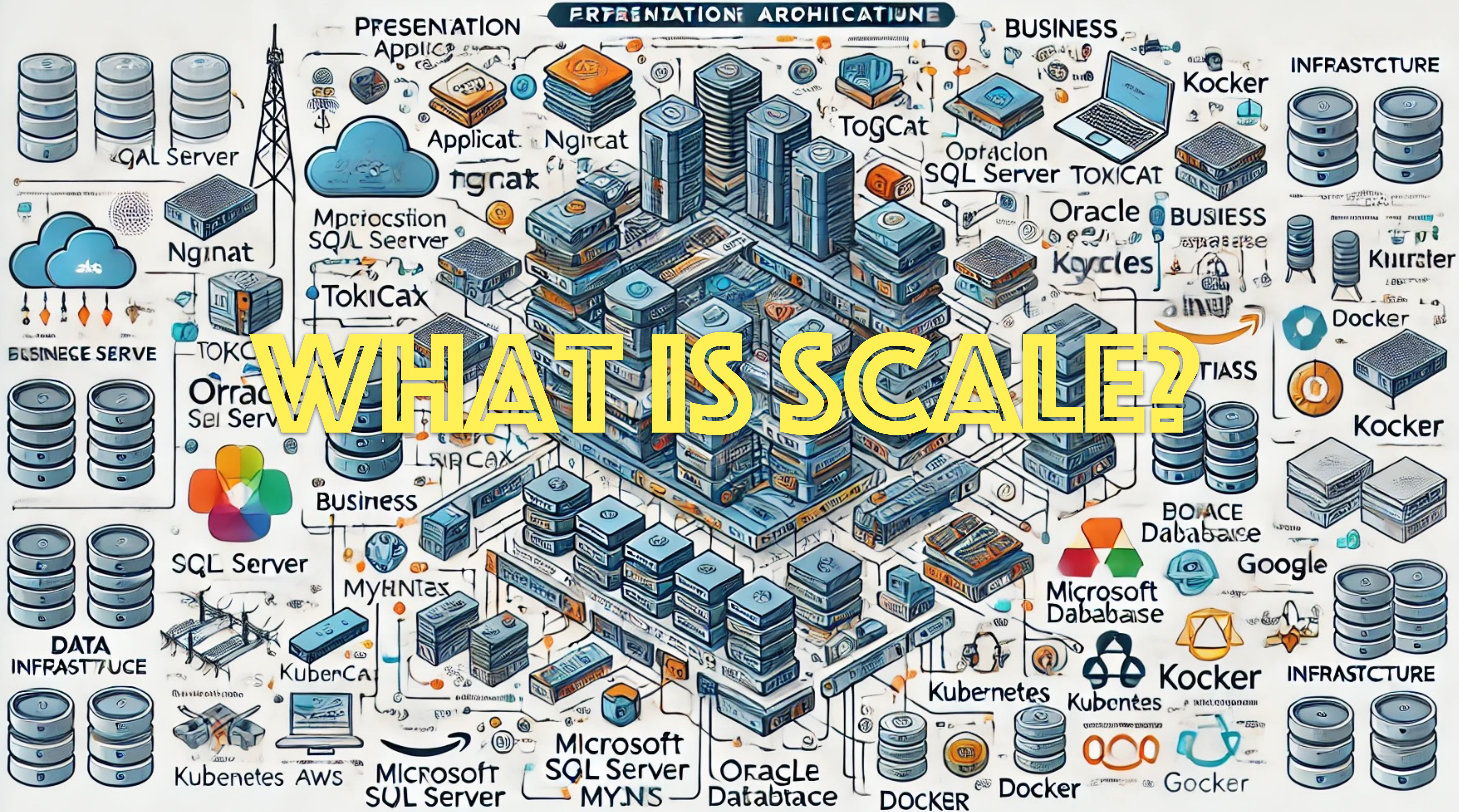
- images can crash
- You need more images
- You need a load balancer
- Machines can also fail
- You need more machines
- You need a machine for the load balancer
- The load balancer machine can fail
- You need a backup of the load balancer

resilience

- images can crash
- You need more images
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- Machines can also fail
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- You need a machine for the load balancer
- The load balancer machine can fail
- You need a backup of the load balancer
- ...

resilience

... and so far I didn't even care about
logging, monitoring, metrics, ...



When to scale? (Internet version)

technical scale -> success

When to scale? (real version)

success -> technical scale

Conclusion

- scaling is distraction

Conclusion

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- no gain without losing something

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- scaling is distraction
- no gain without losing something
- when benefits outweigh the drawbacks significantly... scale

Conclusion

- scaling is distraction
- no gain without losing something
- when benefits outweigh the drawbacks significantly... scale
- If not then not!

thank you!



ApptiveGrid

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