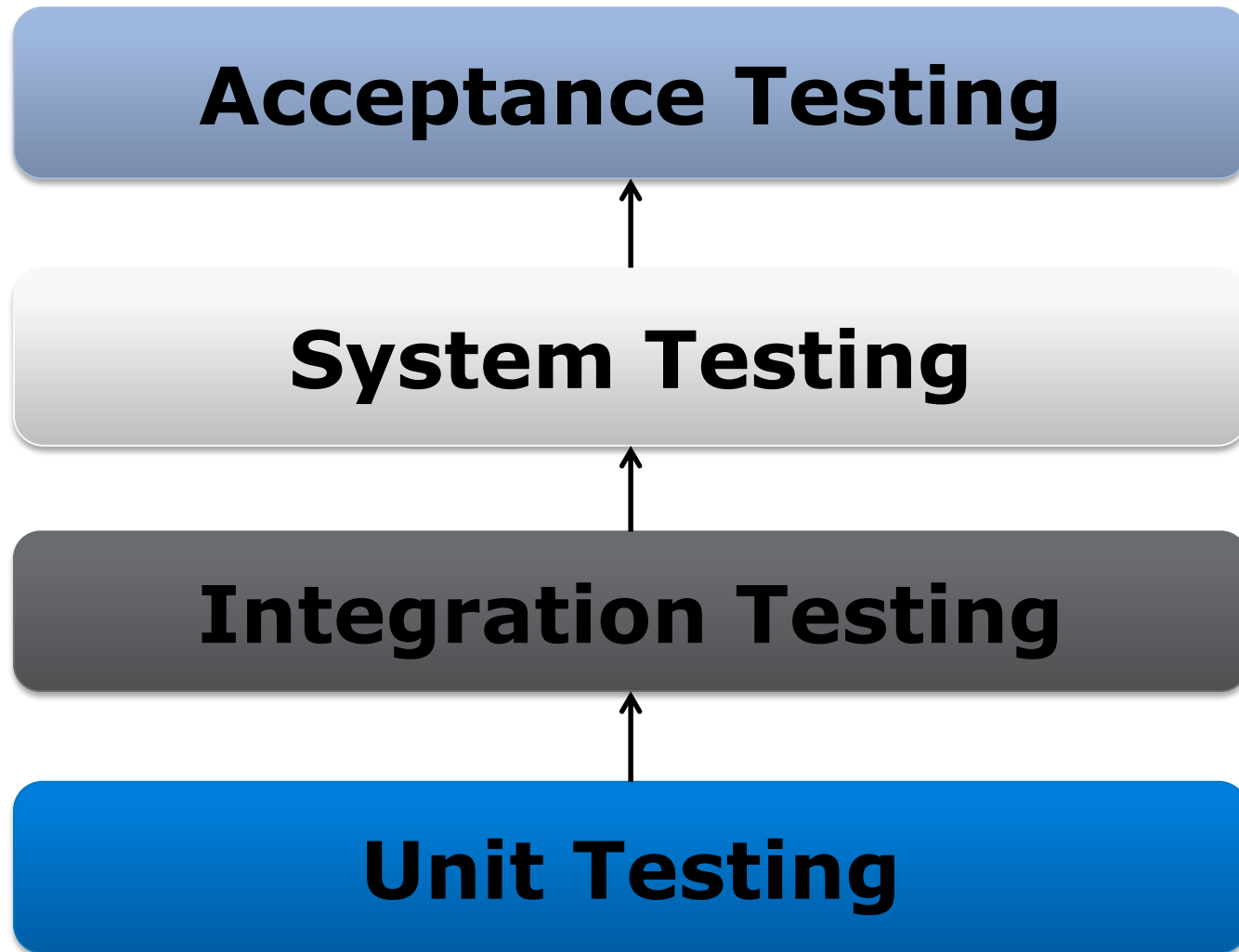


Testing Large-Scale Distributed Applications in the Cloud

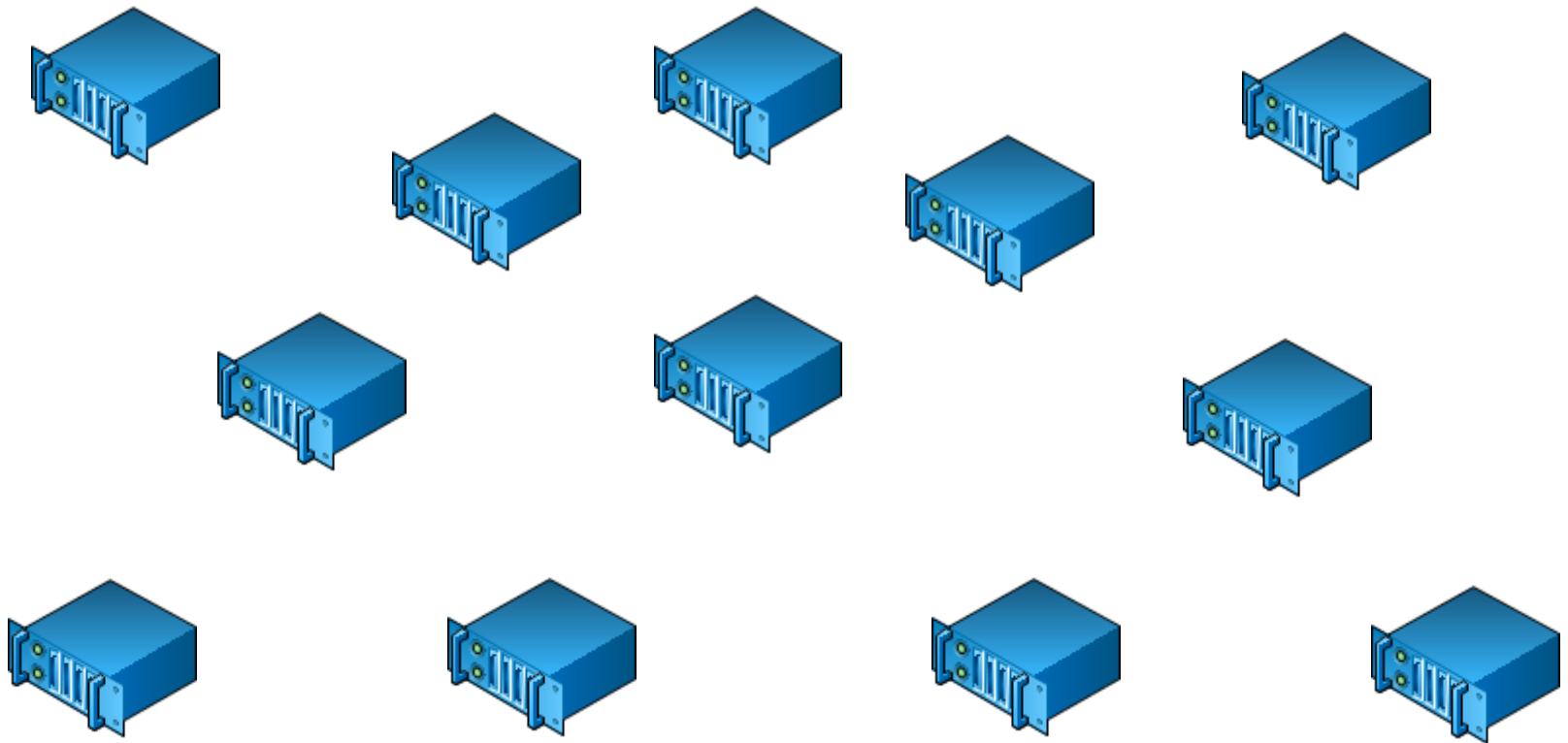
Yoel Spotts
yspotts@nexidia.com

February, 2013





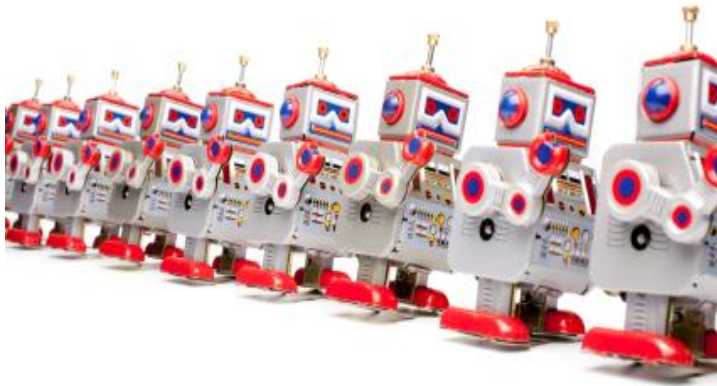
How many dedicated machines?



Clean vs Cluttered



Automated vs Manual



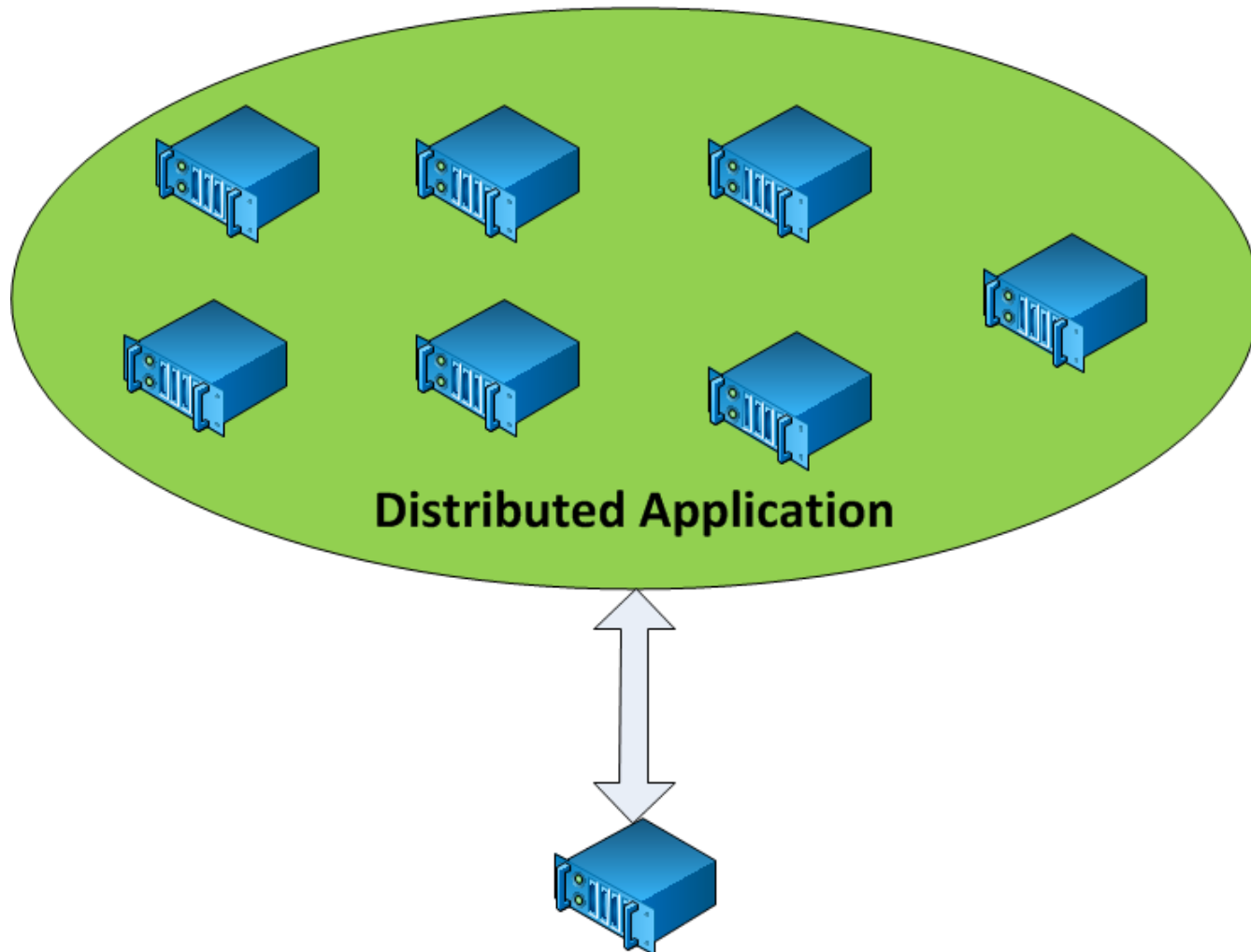
Testing Environment ???



Feel like this?

nexidia 







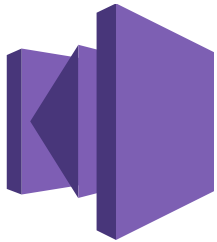
AMI



Amazon EC2



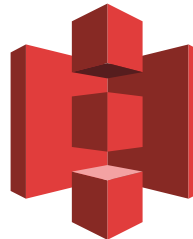
EBS



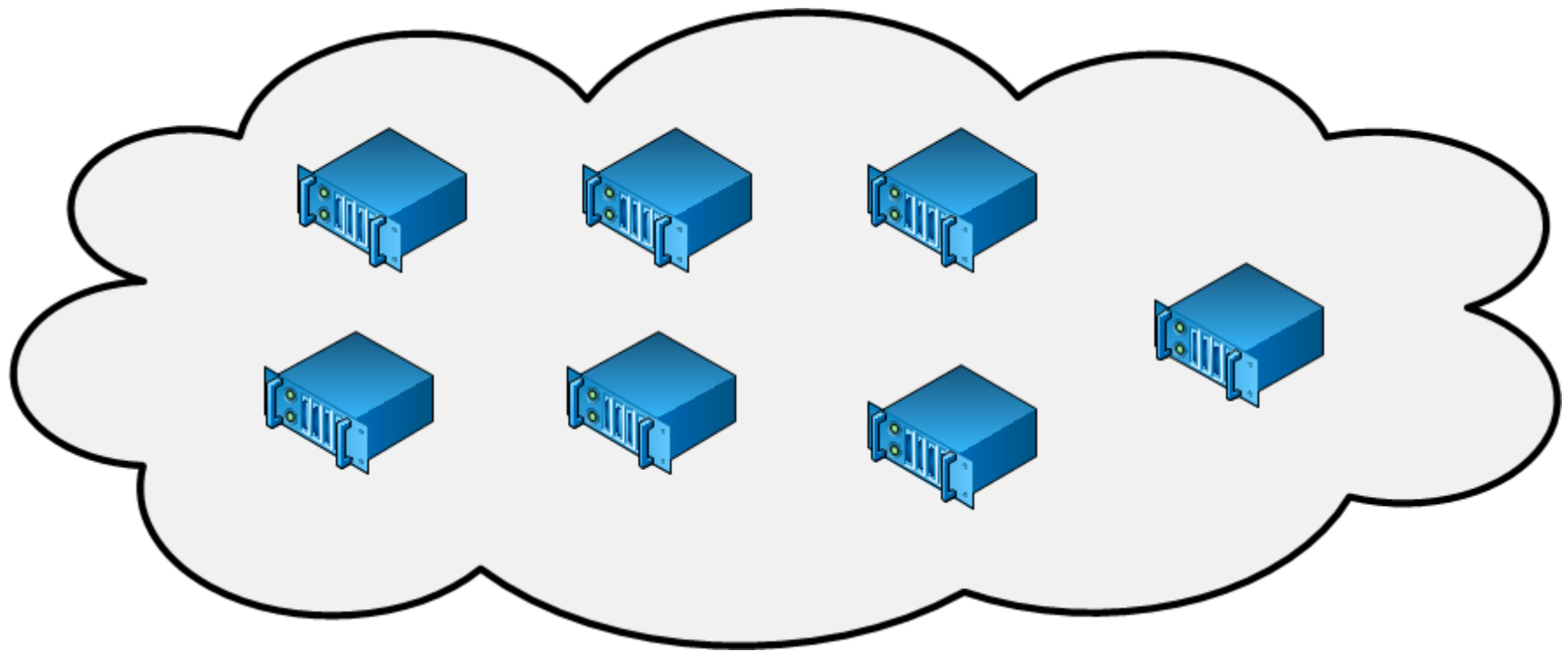
Amazon SQS

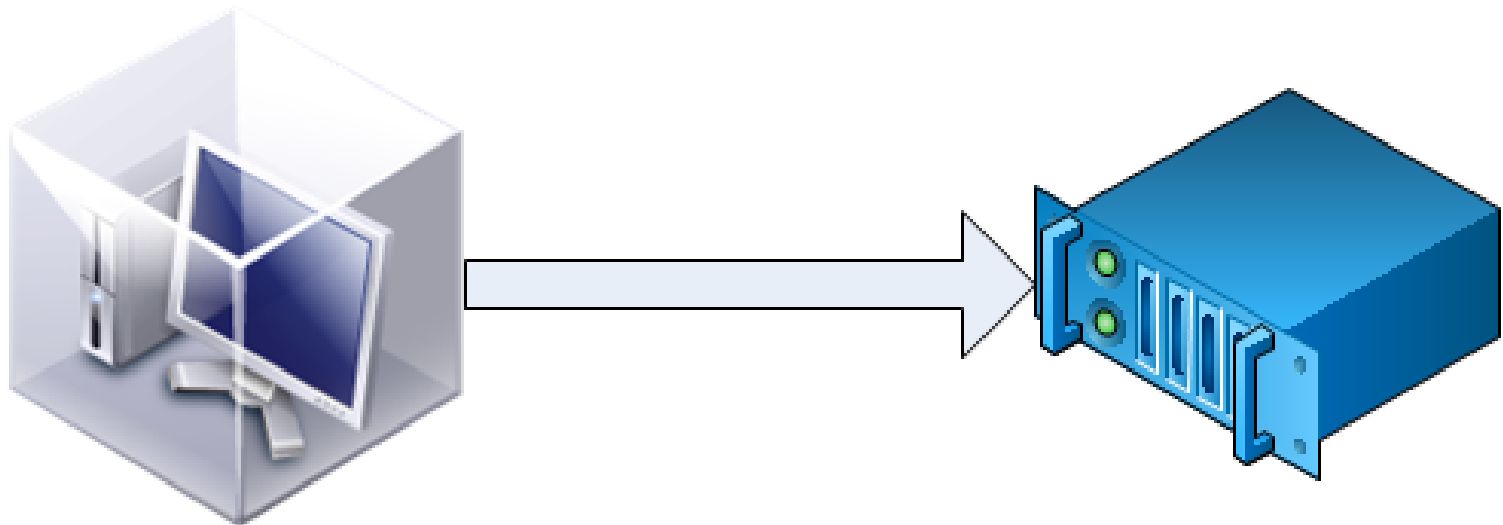


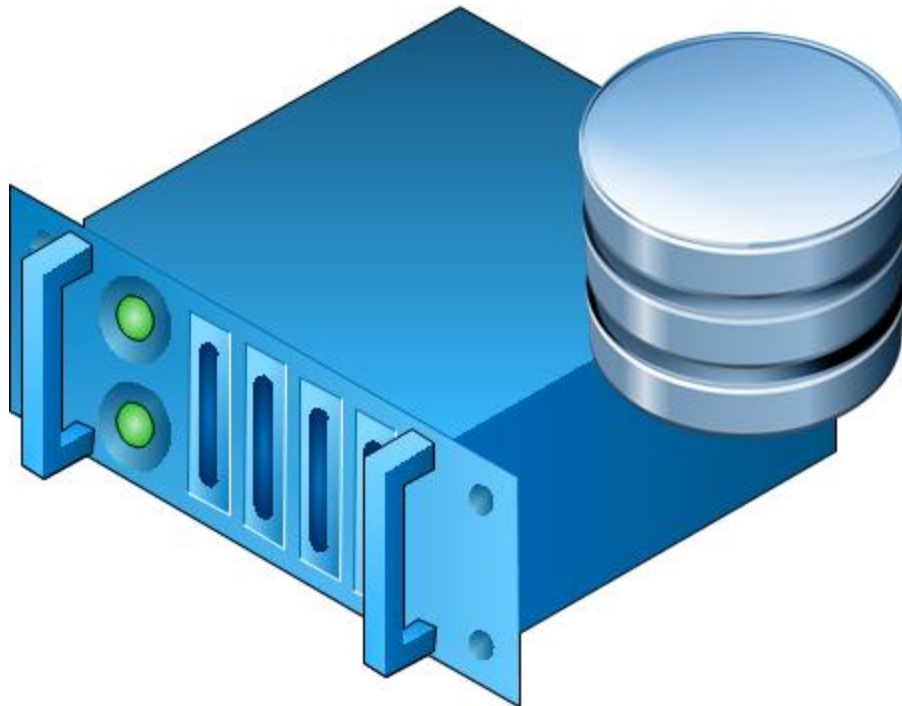
Amazon VPC



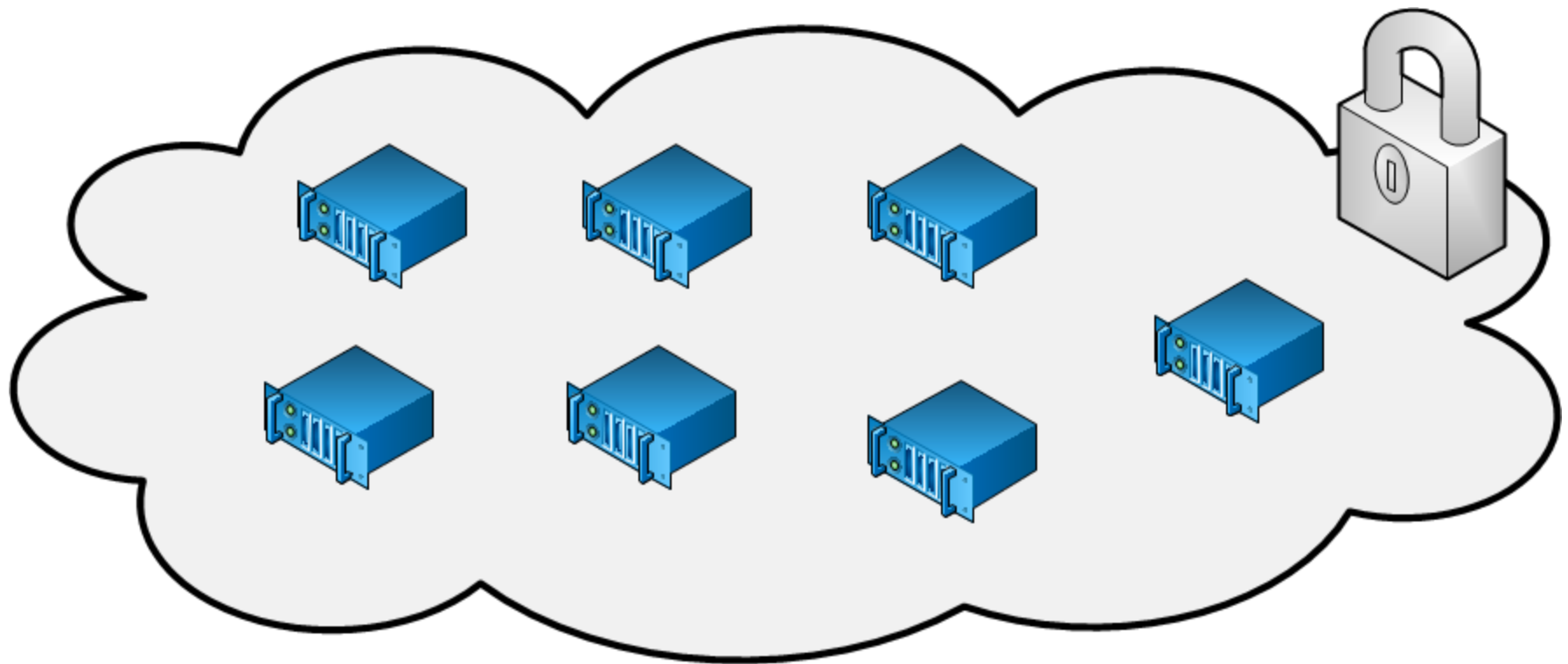
**Amazon
S3**

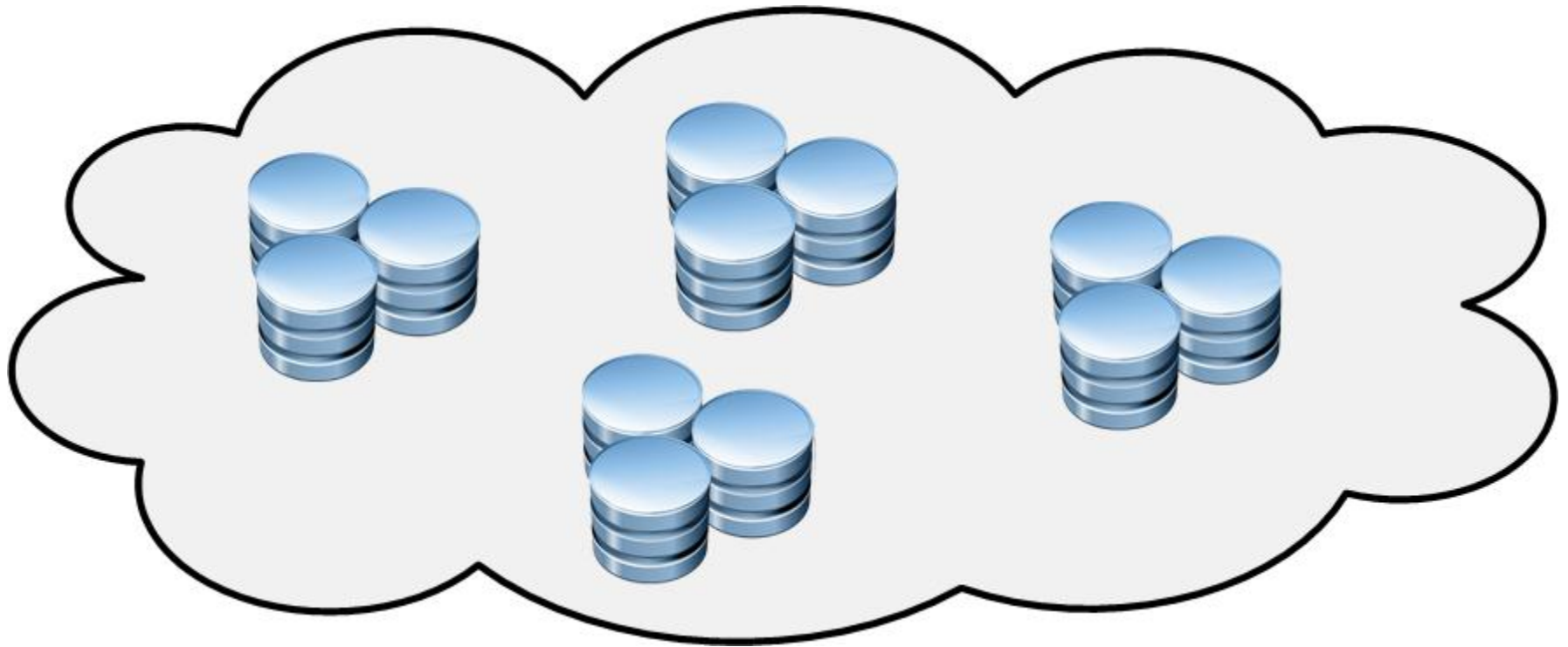


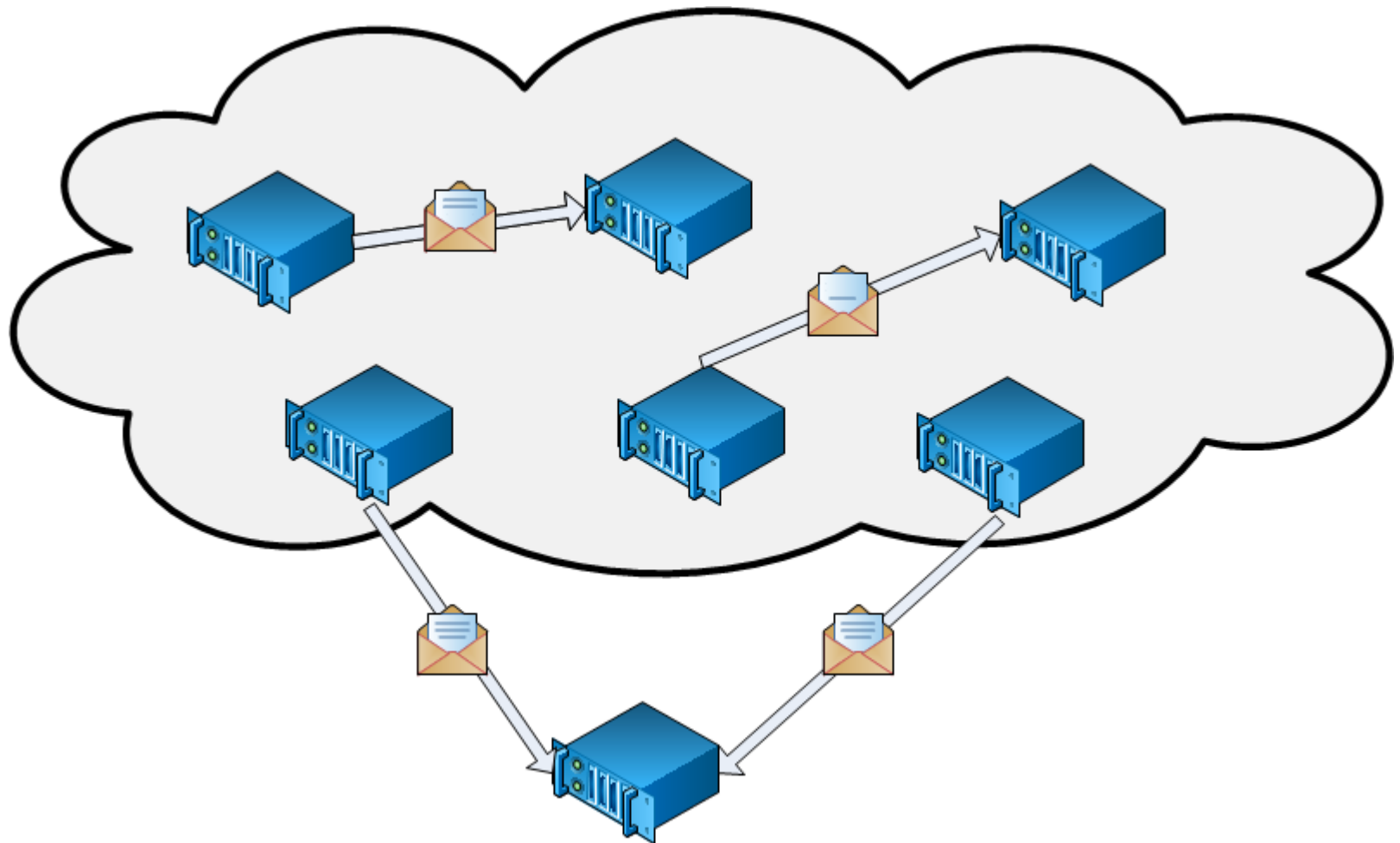


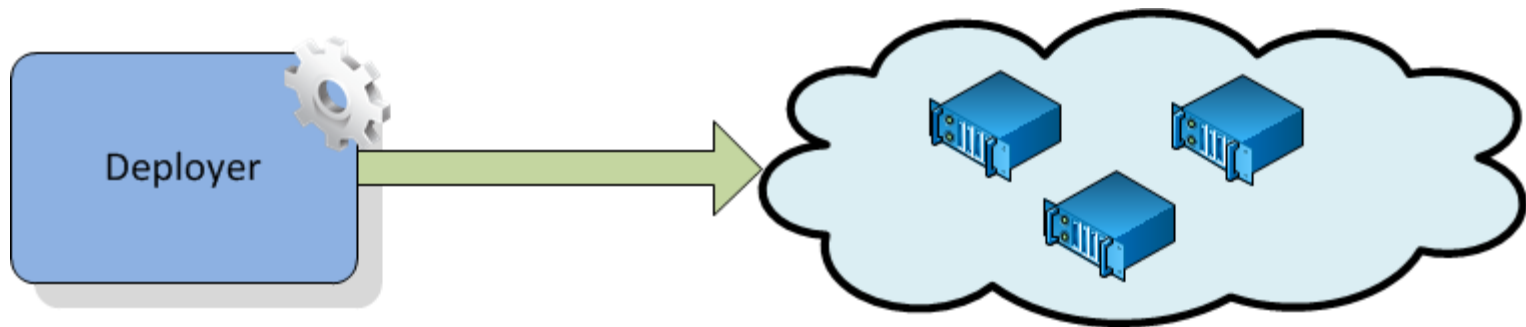


EBS	Instance Storage
Persistent	Non-Persistent
Slow (Raid helps)	Fast (SSD option)
Network Storage	Machine Storage

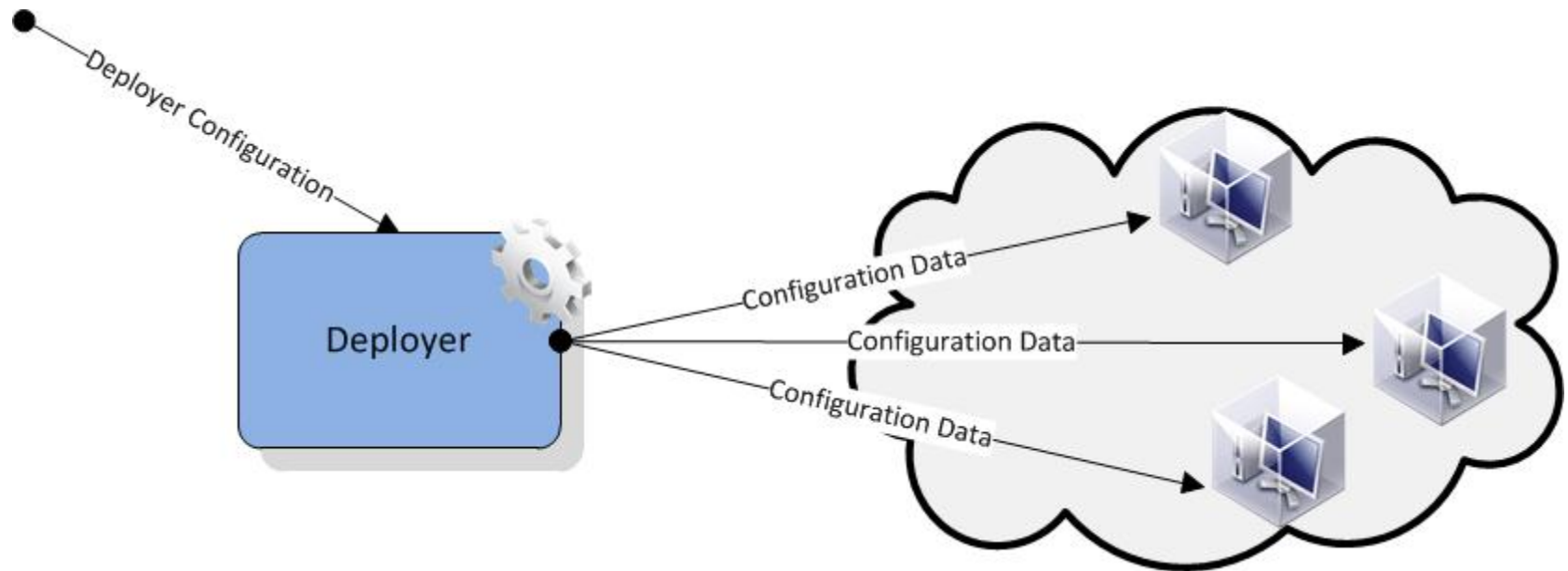


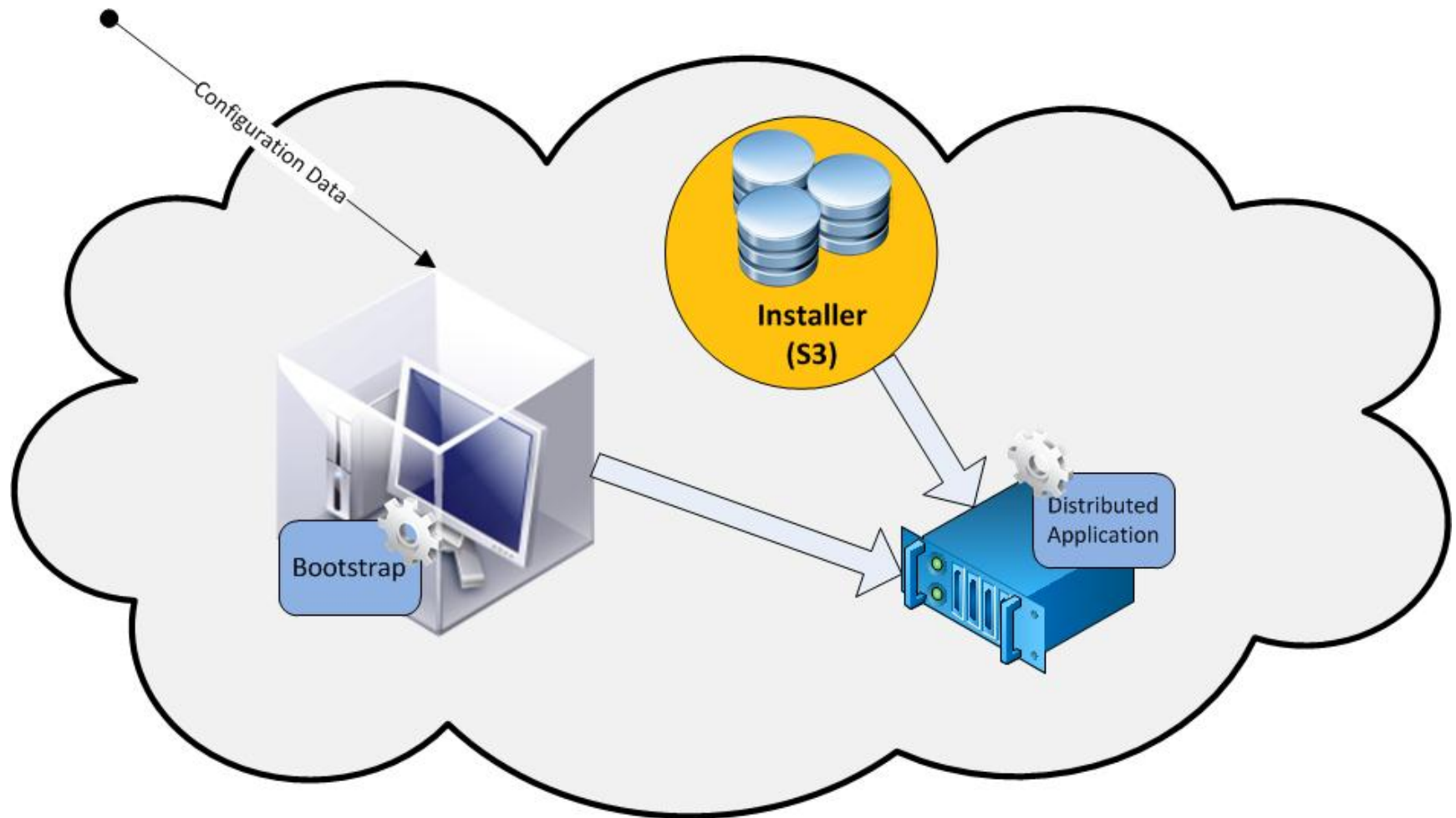


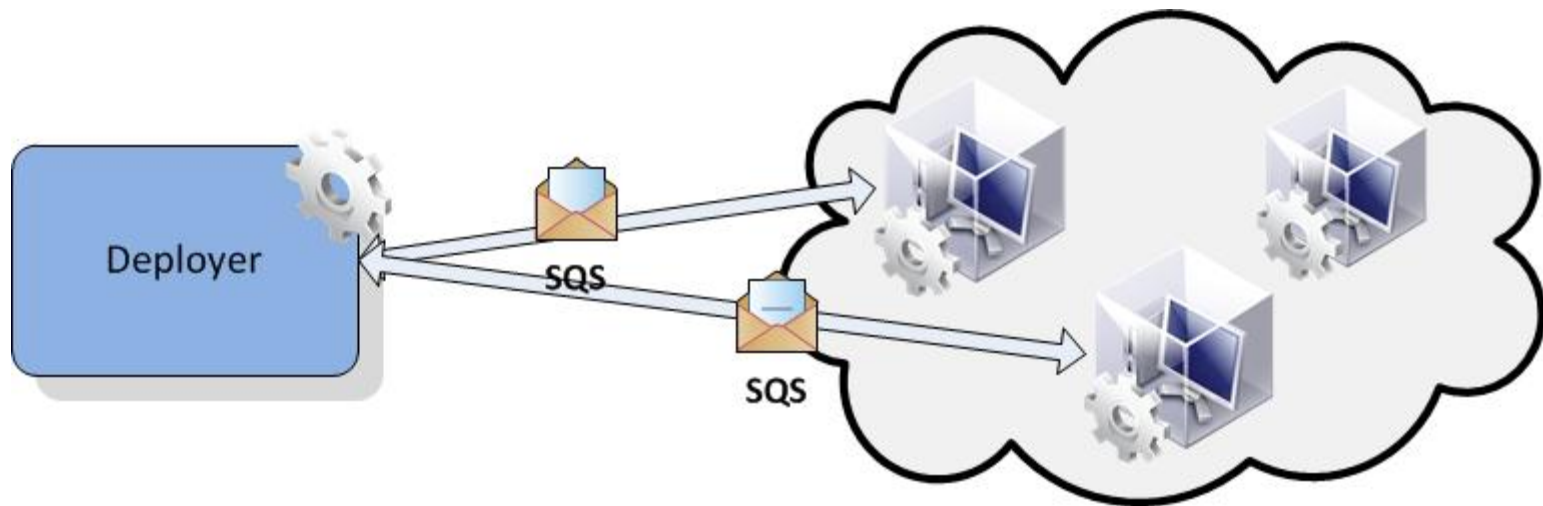


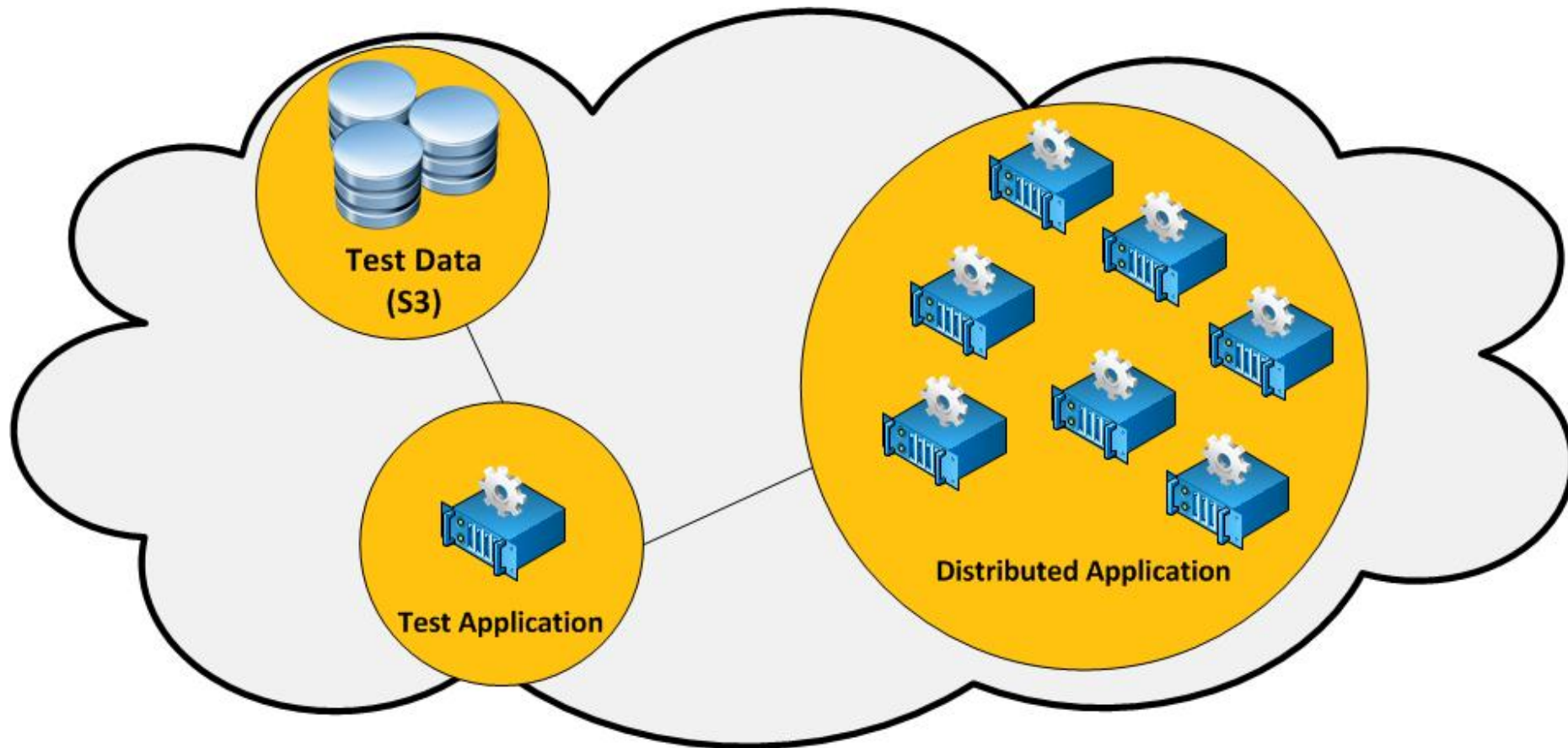


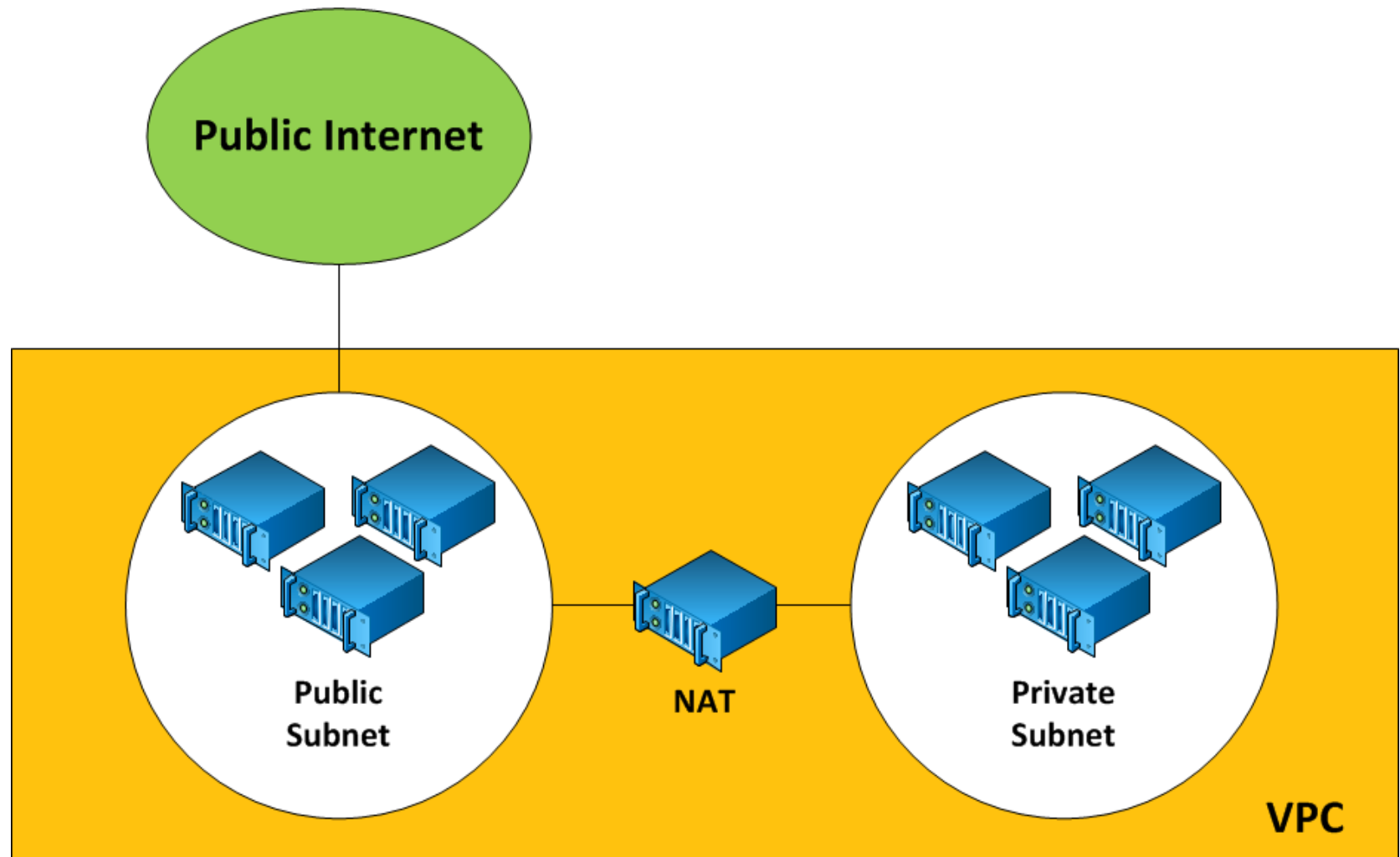












- Distributed tests possible
- Test at scale
- Test if applications scales linearly
- Flexible testing possibilities
- Find performance bottlenecks
- Quick setup and teardown
- Develop best practices for customers
- Keep costs in check



Caution

- Watch costs
- Not real machine
- EBS \neq SSD
- NAT bottleneck
- Virtual server stability
- Limited instances
- Unreliable network measurements
- Security

