

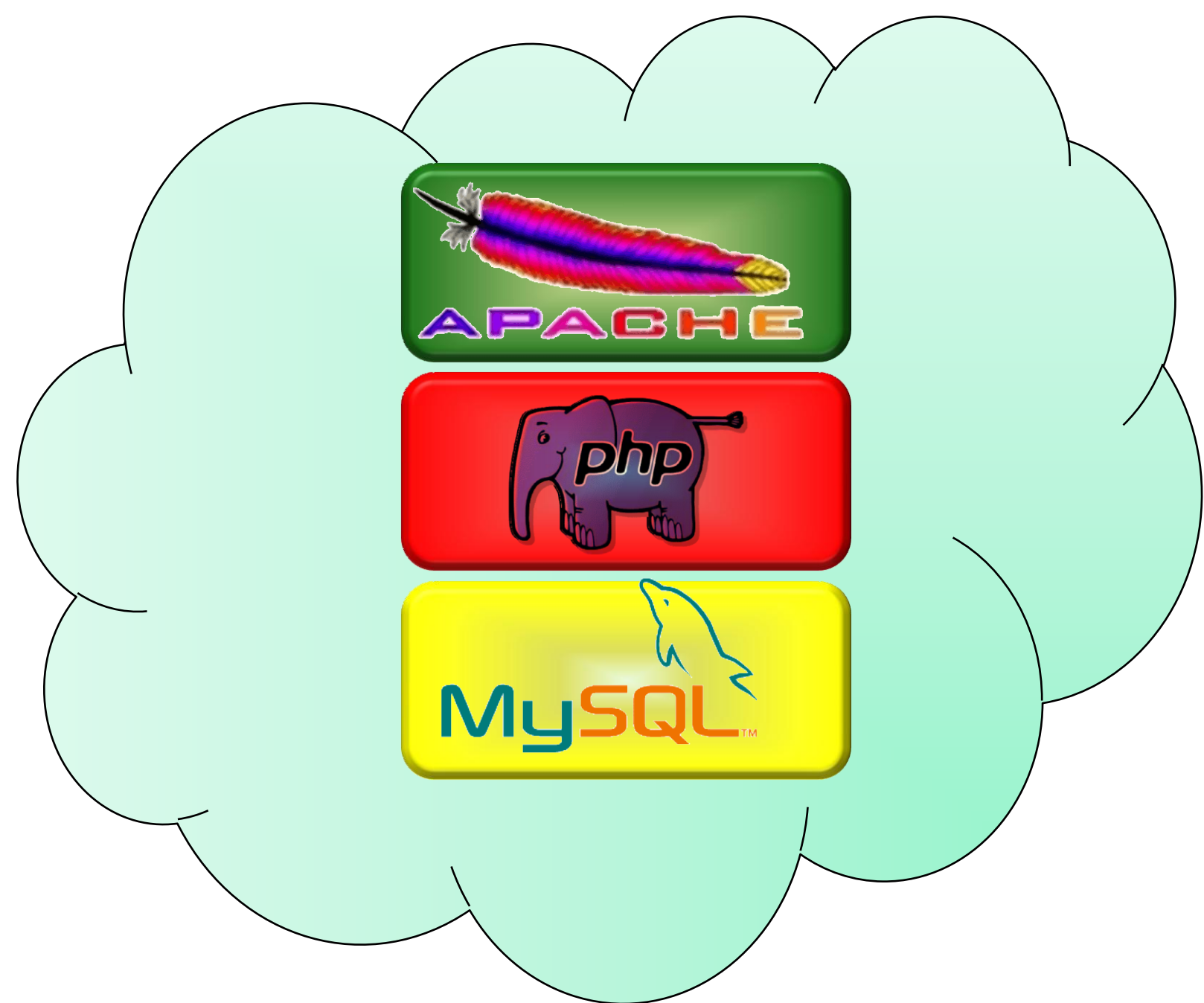


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# Wide Area as a Service: Next Generation Cloud Infrastructure

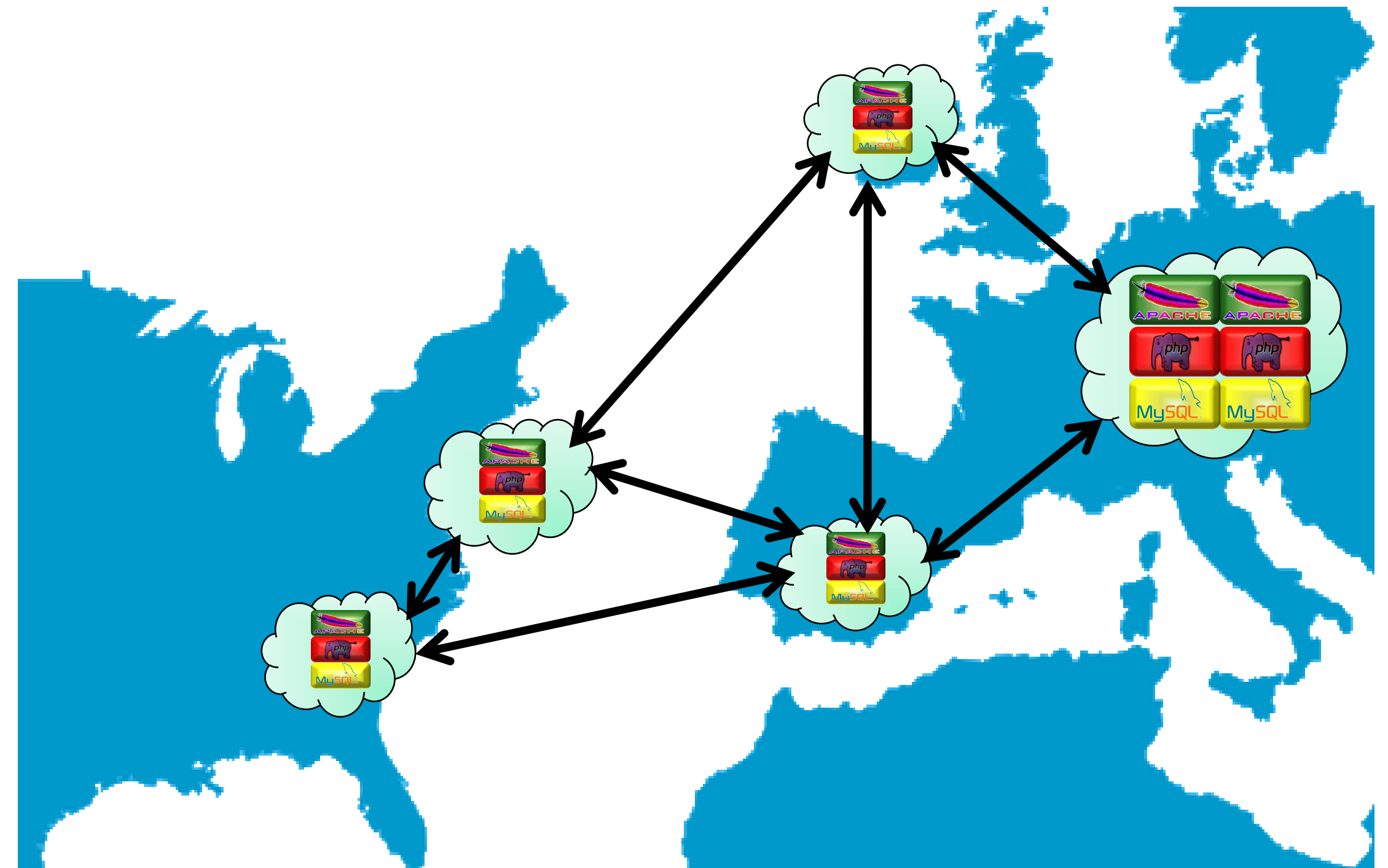
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## Cloud Web Services Today



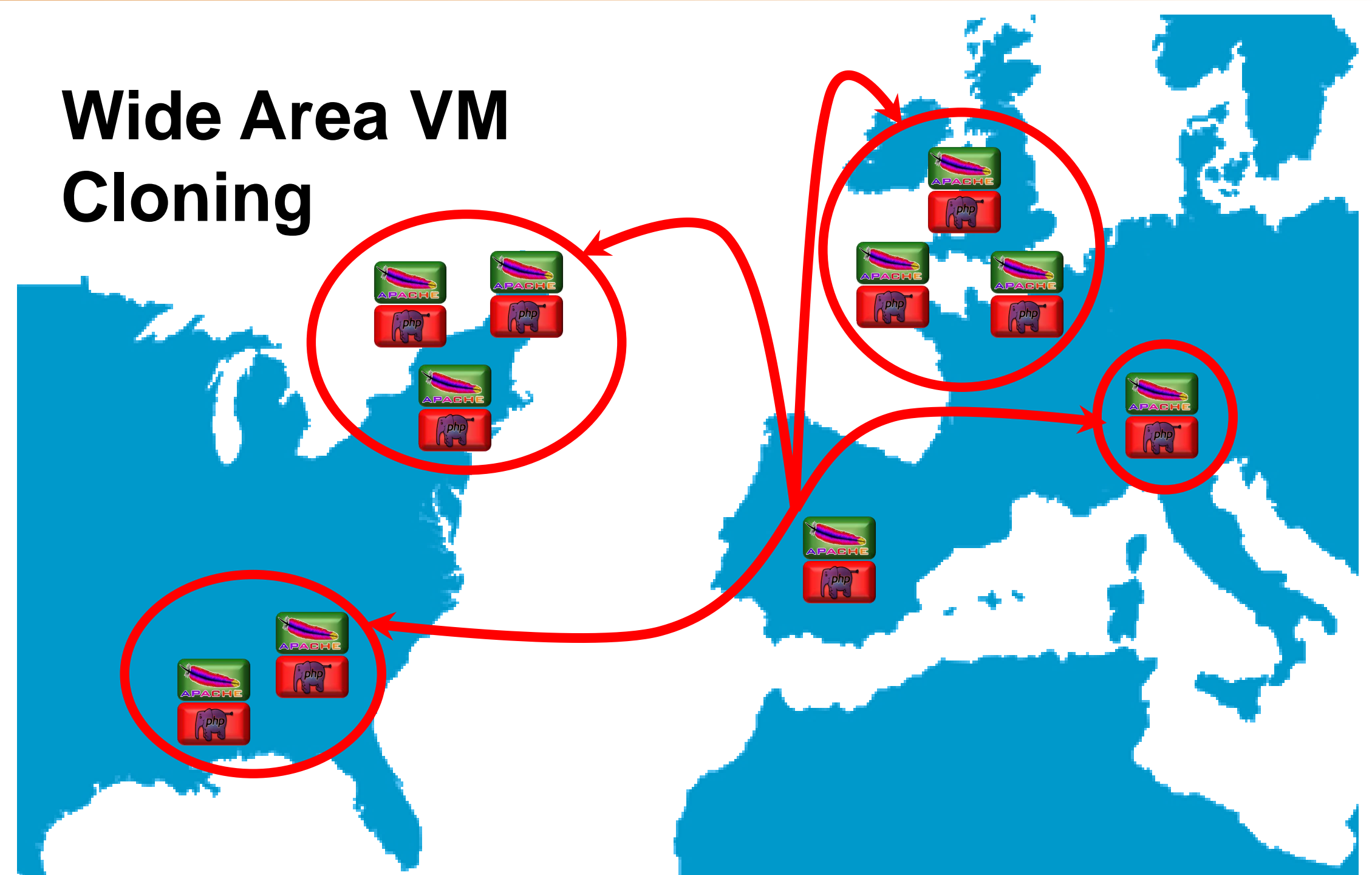
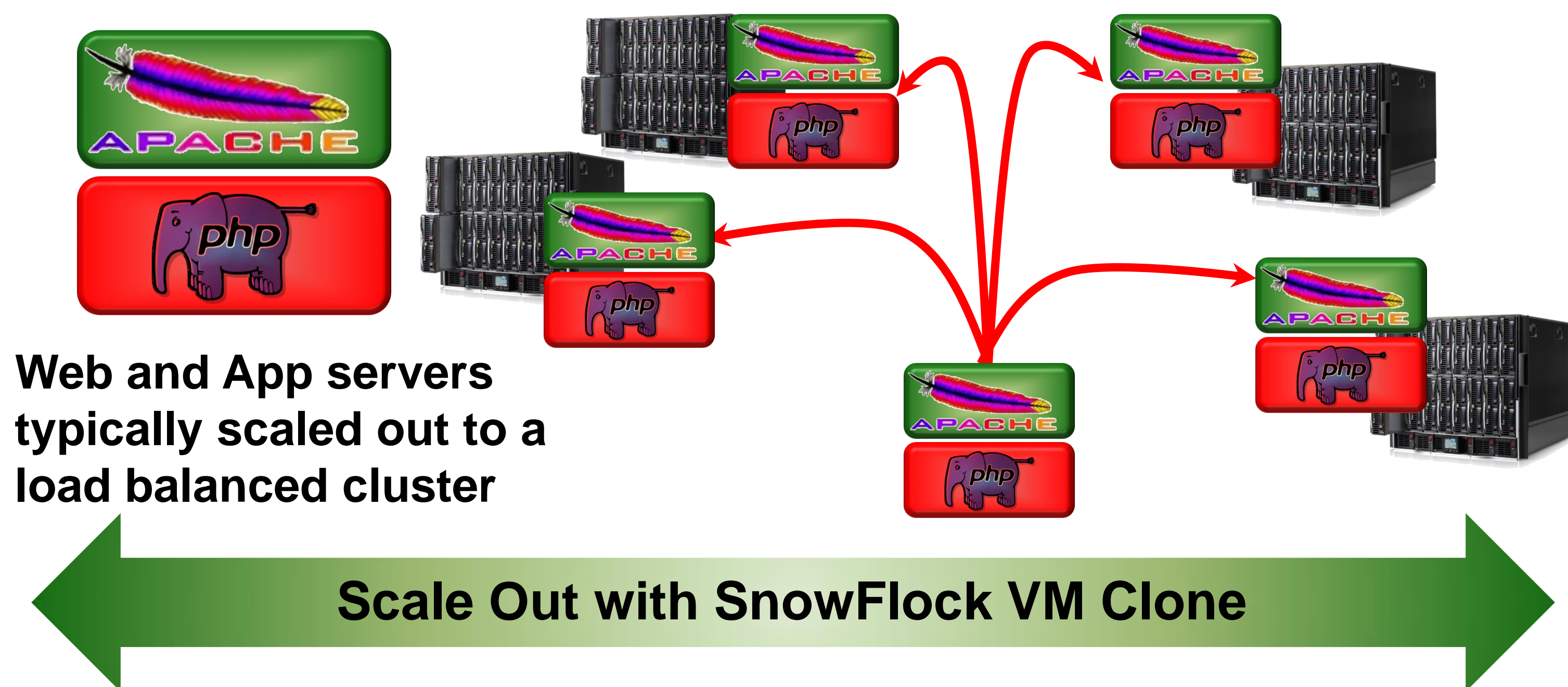
- Infrastructure as a Service: Computing, Storage
- Scaling Within a Single Site
- Geographic Distribution Via CDN (Static Content)

## Vision

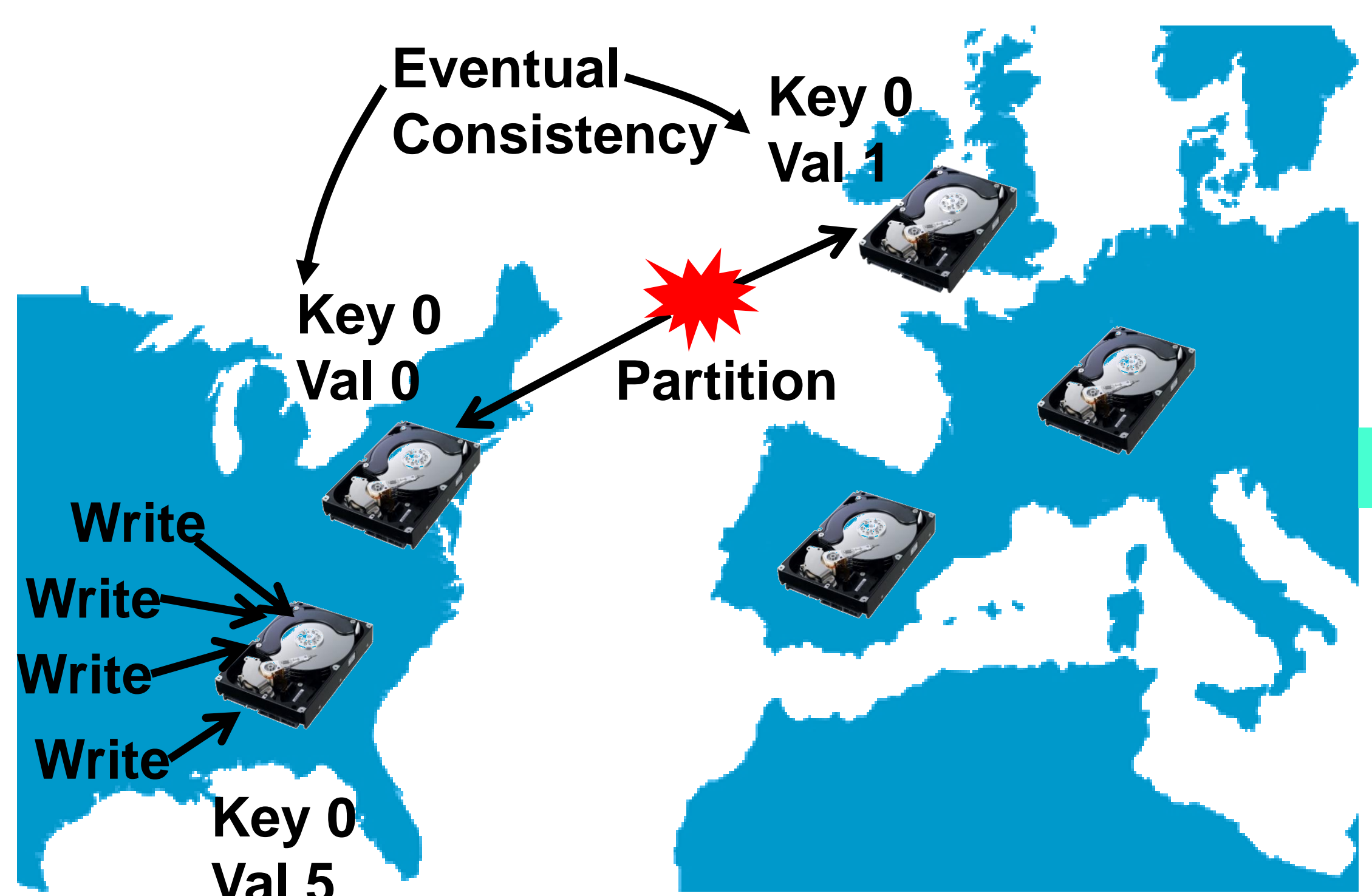
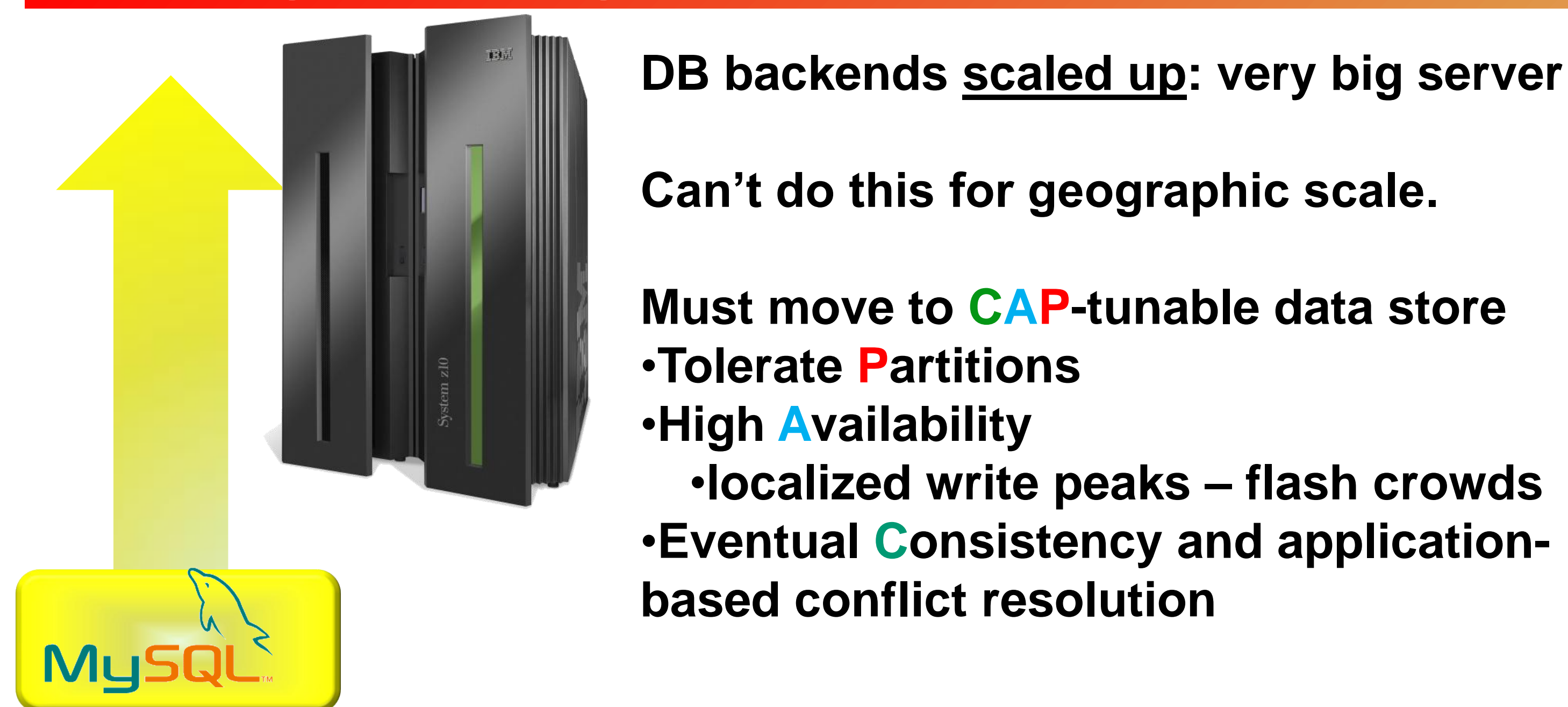


- Infrastructure as a Service++: Add the Network
- Geographic Distribution
- Location-Centric Scale: Flash Crowds, Time Zone Shifting

## Challenge: Scaling Execution



## Challenge: Scaling Data Access



## Stand on the shoulders of giants

- Dynamo, WheelFS, PRACTI, PADS
- Tunable wide-area replication – set your own CAP
- Can we provide this to apps transparently?
- Intermediate caching/replication layer?