Azure Regions

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Physical Data Centers

* Microsoft Azure has a number of Data Centers around the world.

* Data centers hold physical centers which house Microsoft Azure Cloud.

    * Closest Data Center to Finland is in Dublin, Ireland.

* Microsoft advertisement about data centers:

    * https://www.youtube.com/watch?v=JJ44hEr5DFE

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Physical Data Centers

* **Location of physical data center affects speed of access and management.**

* Physical location is determined using three levels of geography:

  * 1) **Geo** setting is used to determine major region (effectively a continent) where data should be stored such as US, Europe, South East Asia, Japan, Brazil or Australia.

  * 2) **Region** setting depends on Geo. One Region may have multiple data centers.

  * 3) **Zone** depends on Region.

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Physical Data Centers

* **Regional settings can affect cloud service latencies in several ways.**
* Services used by single application should be concentrated to a single region to reduce network latency.
* Outgoing data costs increase if same application has services in different parts of the world.
  * Microsoft bills outgoing traffic, not ingoing to regions.
* Short distance to customers cuts down network latency to users.
  * Azure CDN allows storing static files locally across globe for quicker response time.

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Questions?

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