<https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/app-design>

Task Connectivity

Summary

Building a reliable application in the cloud is different from traditional application development. While historically you may have purchased levels of redundant higher-end hardware to minimize the chance of an entire application platform failing, in the cloud, we acknowledge up front that failures will happen. Instead of trying to prevent failures altogether, the goal is to minimize the effects of a single failing component. Failures you can expect here are inherent to highly distributed systems, not a feature of Azure.

Key Points

## **Key Points**

* Use Availability Zones where applicable to improve reliability and optimize costs.
* Design applications to operate when impacted by failures.
* Use the native resiliency capabilities of PaaS to support overall application reliability.
* Design to scale out.
* Validate that required capacity is within Azure service scale limits and quotas.

Choosing the right design

Task2 Getting started with IBM Cloud

VPN

PNC/Equinix

Task 3 Getting Started with Azure

VPN

Express Route/Global Reach

Skytap-owned versus customer-owned

vWAN

Considerations on Reliability

Next Steps