

# Data Centre Planning

April 8<sup>th</sup> 2019

# Overview

- The Data Centre
- Location/Environment
- Capacity
- Growth
- Other considerations
  - Standards

# Data Centre

- A centralized place to house computing devices
  - Dedicated space
  - Contents
    - Servers, storage, network..
- *Describe our data centres and its contents?*
- *What about distributed Data centres?*

# Location/environment

- Factors affecting choice of location?
  - Accessibility for moving equipment
    - Ground floor; stairs or lift; underground
  - Environment/Nature
    - Sunlight
    - Windows
- *What factors were considered in choosing your data centre location and why?*

# Layout/Capacity

- Overall Space
  - RACK or RACKless
  - Redundancy levels
  - Ease of renovations?
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- *How large a room do you need?*
  - *Can this be demand driven?*
  - *What can you add to the above list?*

# Growth

- How do you look ahead?
  - Basic direct proportionality for
    - Number of servers
    - Cooling
    - Electricity
- *What are the plans towards an evolution?*
- *What is the life-span of a data centre?*

# Other considerations

- Standards: Developed from Telecommunications industry:
  - Space requirements
  - Monitoring requirements
  - Raised floors
  - Lights-out
- Maintenance
  - Renovations?