**[Hardware Category Name]**

**Requirements Analysis**

* **Business Requirements**: How this hardware supports the colocation, hosting, and cloud services
* **Technical Requirements**: How this hardware addresses the technical goals (reliability, scalability, etc.)
* **Performance Requirements**: Specific performance metrics this hardware must meet
* **Capacity Requirements**: Current and future capacity needs
* **Security Requirements**: Security features needed for this hardware

**Hardware Selection**

**[Product Name] from [Vendor]**

**Product Specifications:**

Model Number: [Model Number]

Form Factor: [e.g., 1U, 2U, Chassis]

Performance Metrics: [Key metrics - throughput, IOPS, etc.]

Port Configuration: [Types and numbers of ports]

Power Requirements: [Power consumption, redundant PSUs]

Cooling Requirements: [Cooling specifications]

Physical Dimensions: [Height x Width x Depth]

Weight: [Weight of the unit]

**Key Features:**

* [Feature 1]: [Description of how this feature addresses specific requirements]
* [Feature 2]: [Description of how this feature addresses specific requirements]
* [Feature 3]: [Description of how this feature addresses specific requirements]

**Selection Justification:**

1. **Alignment with Technical Goals**:
   * **Reliability**: [How the product supports reliability goals]
   * **Scalability**: [How the product supports scalability goals]
   * **Performance**: [How the product meets performance requirements]
   * **Security**: [Security features and compliance]
   * **Manageability**: [Management capabilities and integration]
2. **Suitability for Tier III Requirements**:
   * [How this product supports N+1 redundancy]
   * [How it integrates with other redundant systems]
3. **Integration with Spine-Leaf Architecture**:
   * [Specific capabilities that support the chosen network architecture]
   * [Compatibility with other selected hardware]
4. **Cost-Benefit Analysis**:
   * [Initial acquisition cost]
   * [Expected operational costs]
   * [ROI considerations]
5. **Vendor Considerations**:
   * [Vendor presence in Malaysia/APAC]
   * [Support and maintenance options]
   * [Warranty and service level agreements]

**Alternative Options Considered**

**[Alternative Product 1]**

* **Key specifications**: [Brief summary]
* **Advantages**: [What made this a contender]
* **Disadvantages**: [Why it wasn't selected]

**[Alternative Product 2]**

* **Key specifications**: [Brief summary]
* **Advantages**: [What made this a contender]
* **Disadvantages**: [Why it wasn't selected]

**Mapping to Network Architecture**

* [Diagram or description showing where this hardware fits in the overall architecture]
* [Interconnections with other components]
* [Role in the data flow]