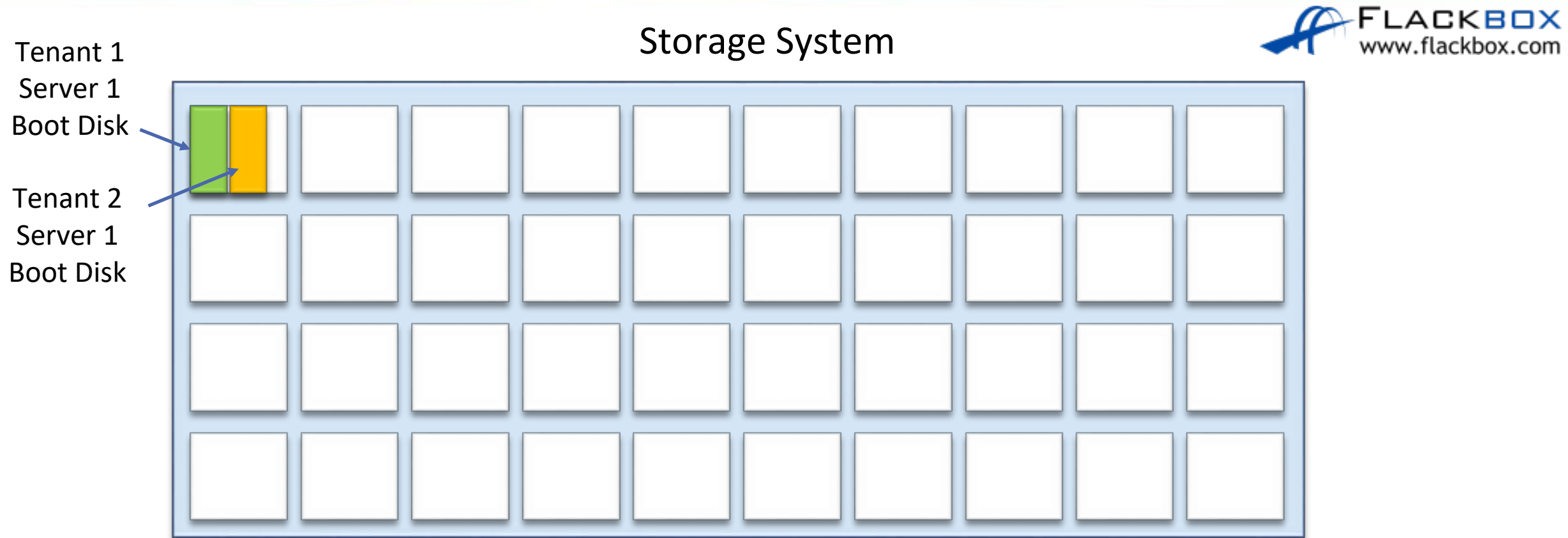# Resource Pooling

- 'The provider's computing resources are pooled to serve multiple consumers using a multi-tenant model, with different physical and virtual resources dynamically assigned and reassigned according to consumer demand. There is a sense of location independence in that the customer generally has no control or knowledge over the exact location of the provided resources but may be able to specify location at a higher level of abstraction (e.g., country, state, or datacenter). Examples of resources include storage, processing, memory, and network bandwidth.' *NIST*
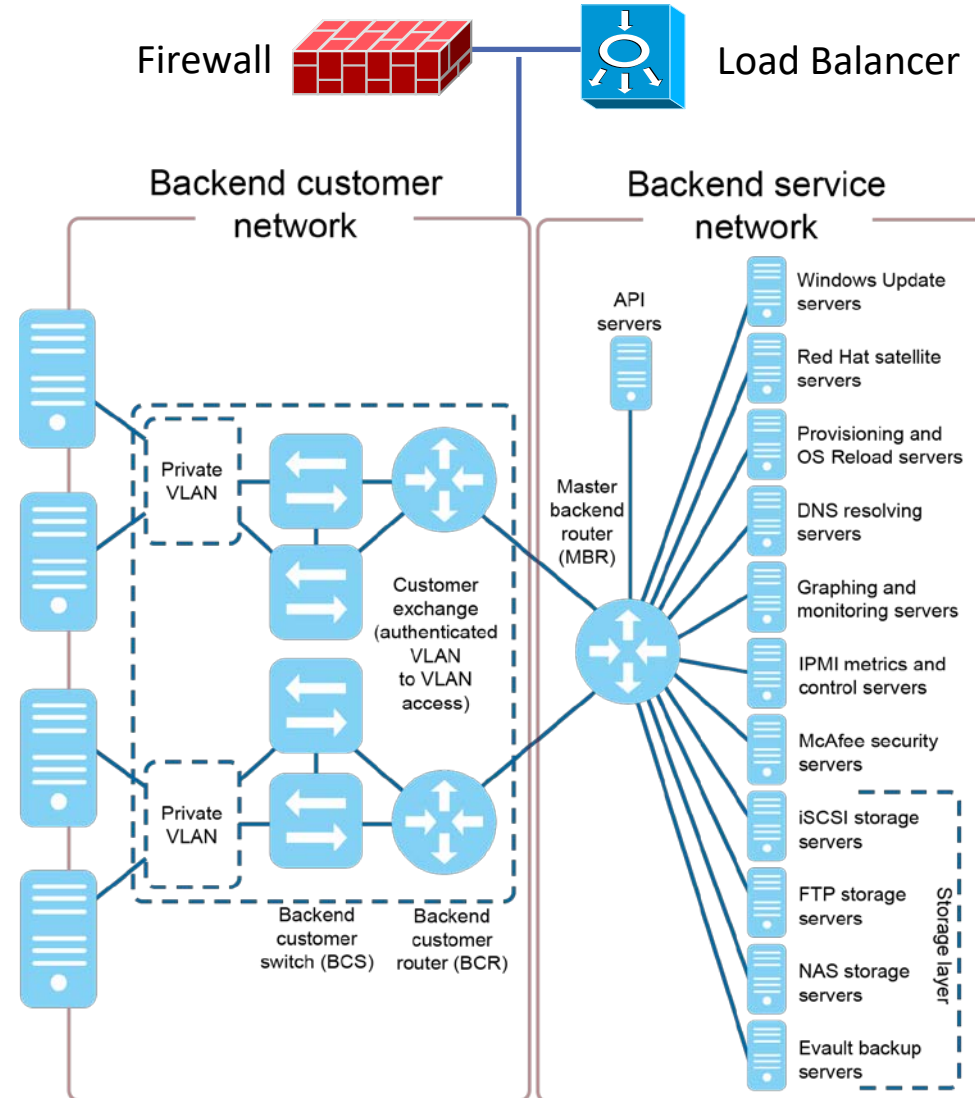
Resource Pooling – Processing and Memory

- Hypervisor demo

Resource Pooling – Storage

Storage System

Tenant 1
Server 1
Boot Disk

Tenant 2
Server 1
Boot Disk

- Further savings can be made through storage efficiency techniques such as thin provisioning, deduplication and compression

Resource Pooling – Network and Services

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