



OPEN
Compute Project



OCP U.S. SUMMIT 2017

Santa Clara, CA



Zooming In On the Network

Luis MartinGarcia, Facebook

OPEN HARDWARE.

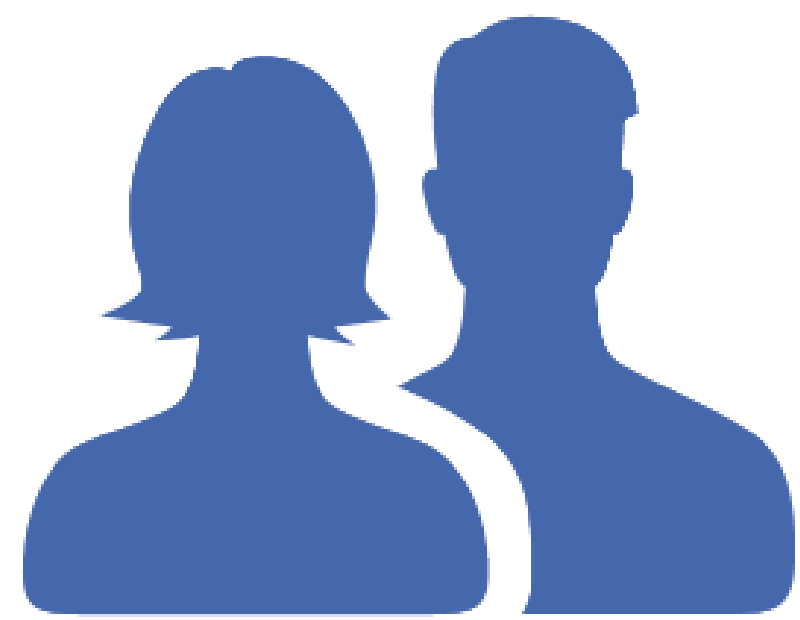
OPEN SOFTWARE.

OPEN FUTURE.





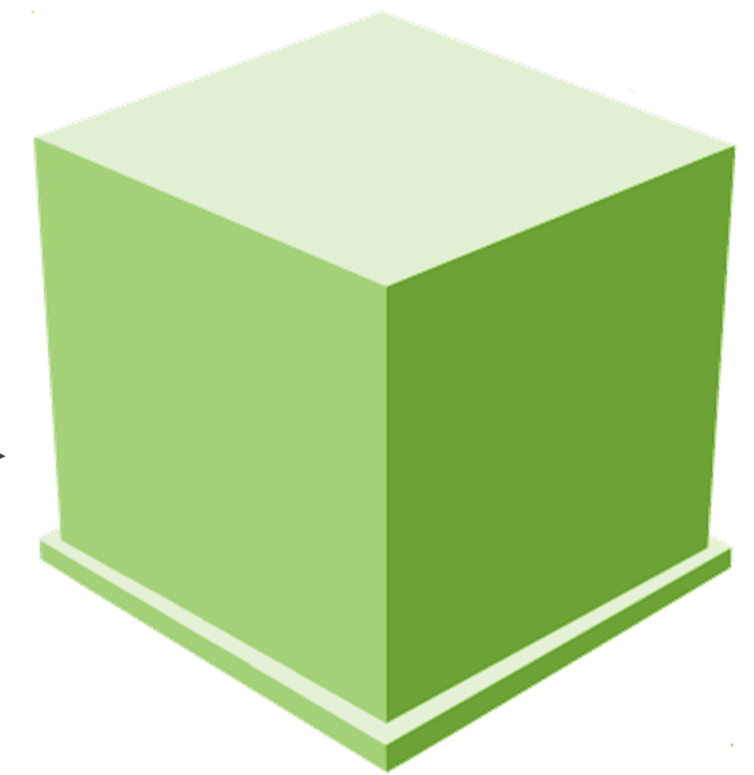
1.8 Billion
people



People

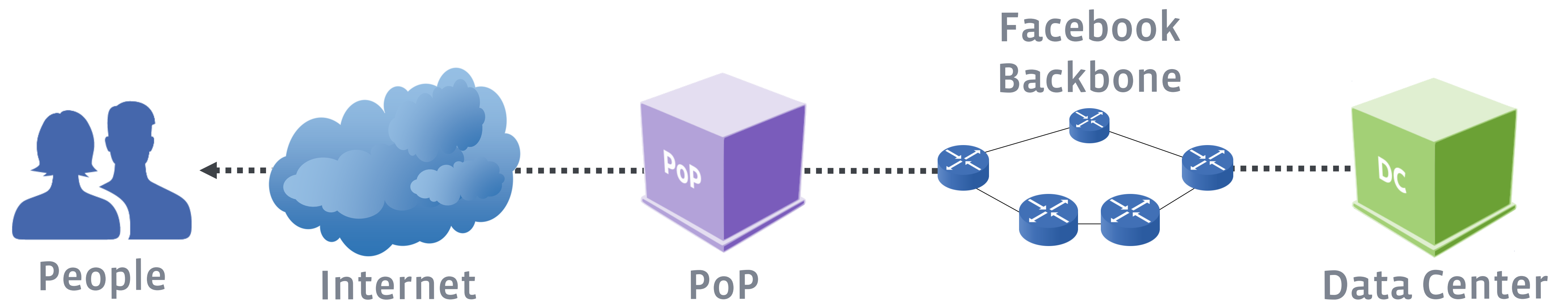


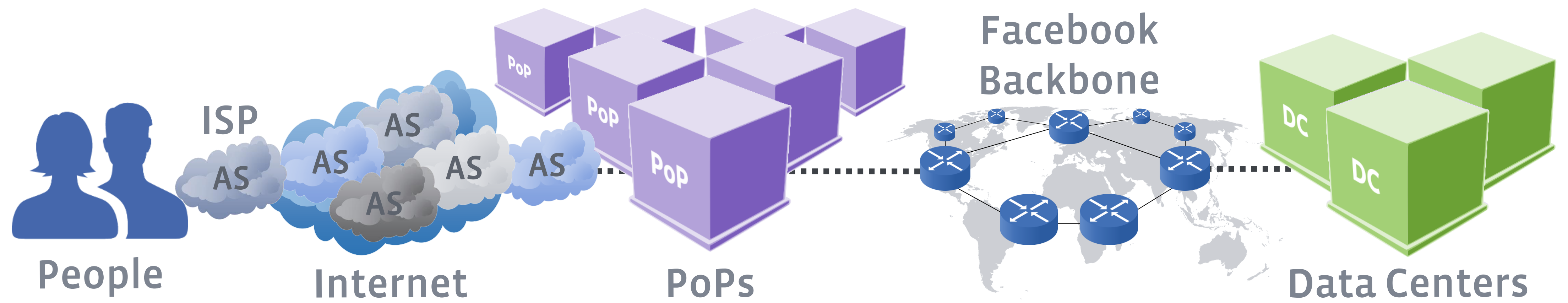
Internet

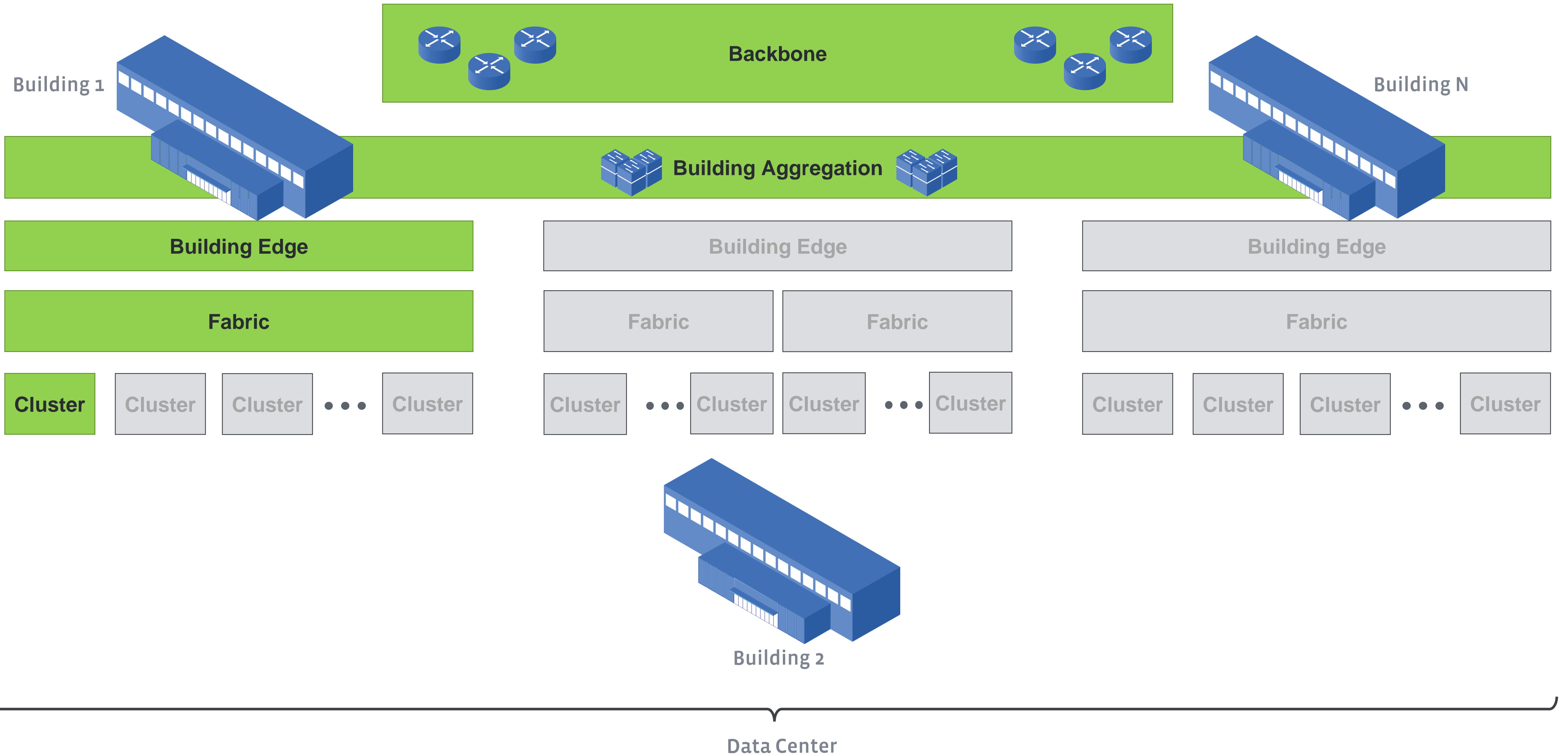


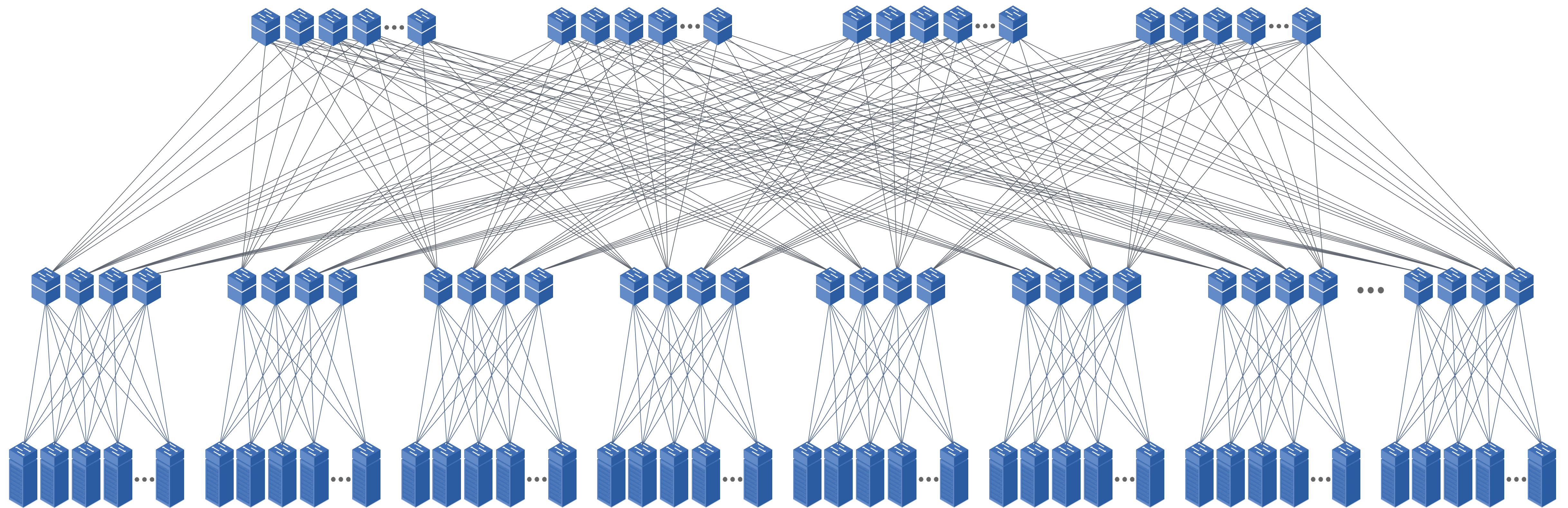
Facebook

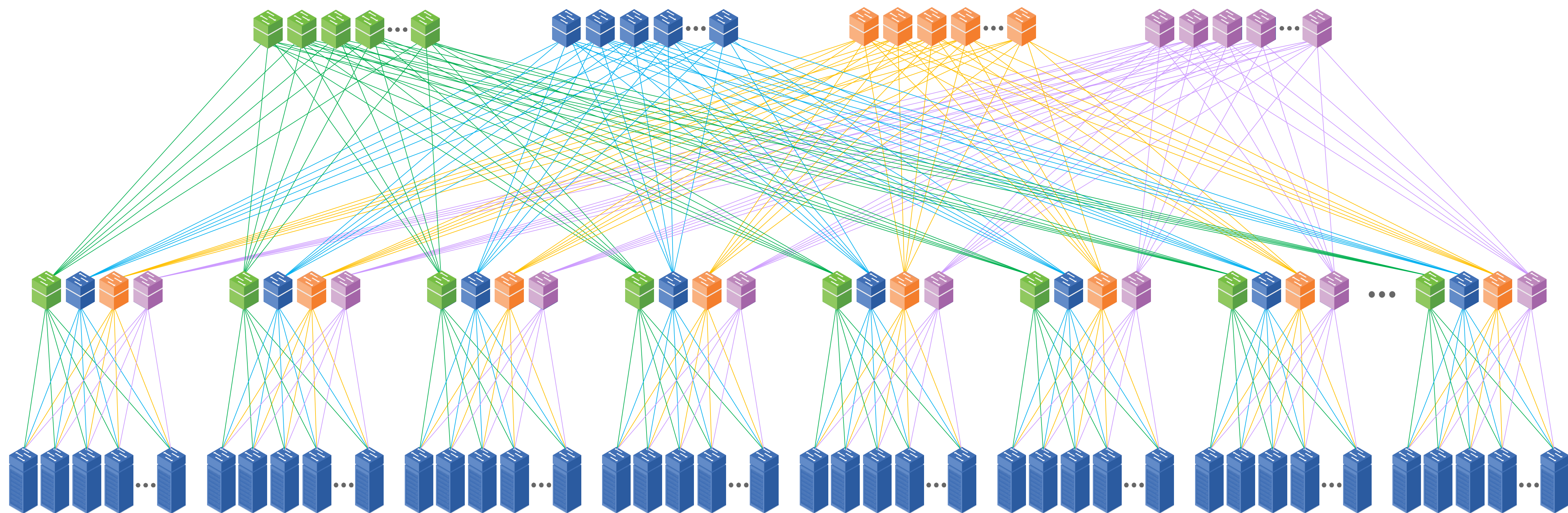


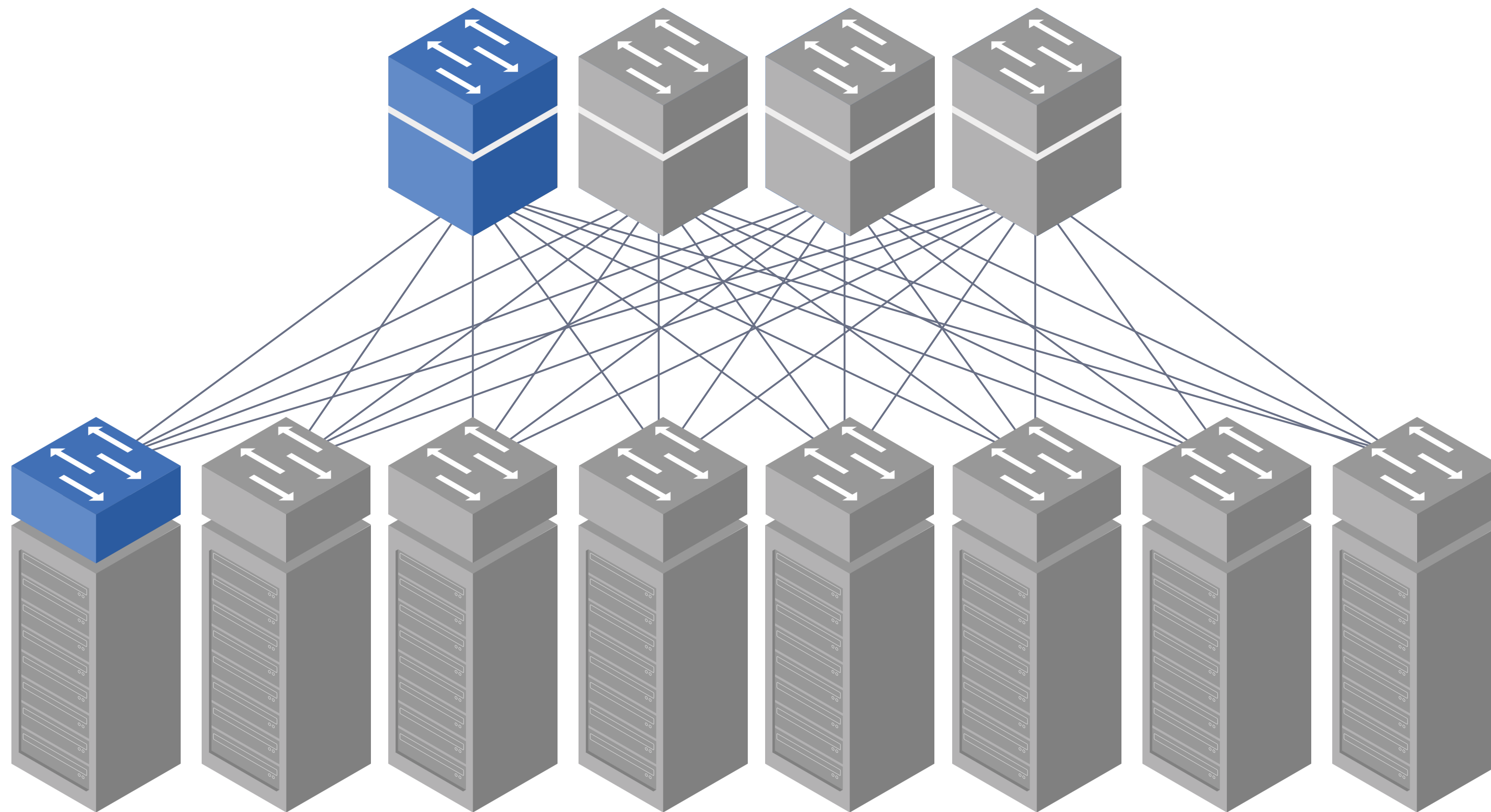












Software

Services

Operating System

Services

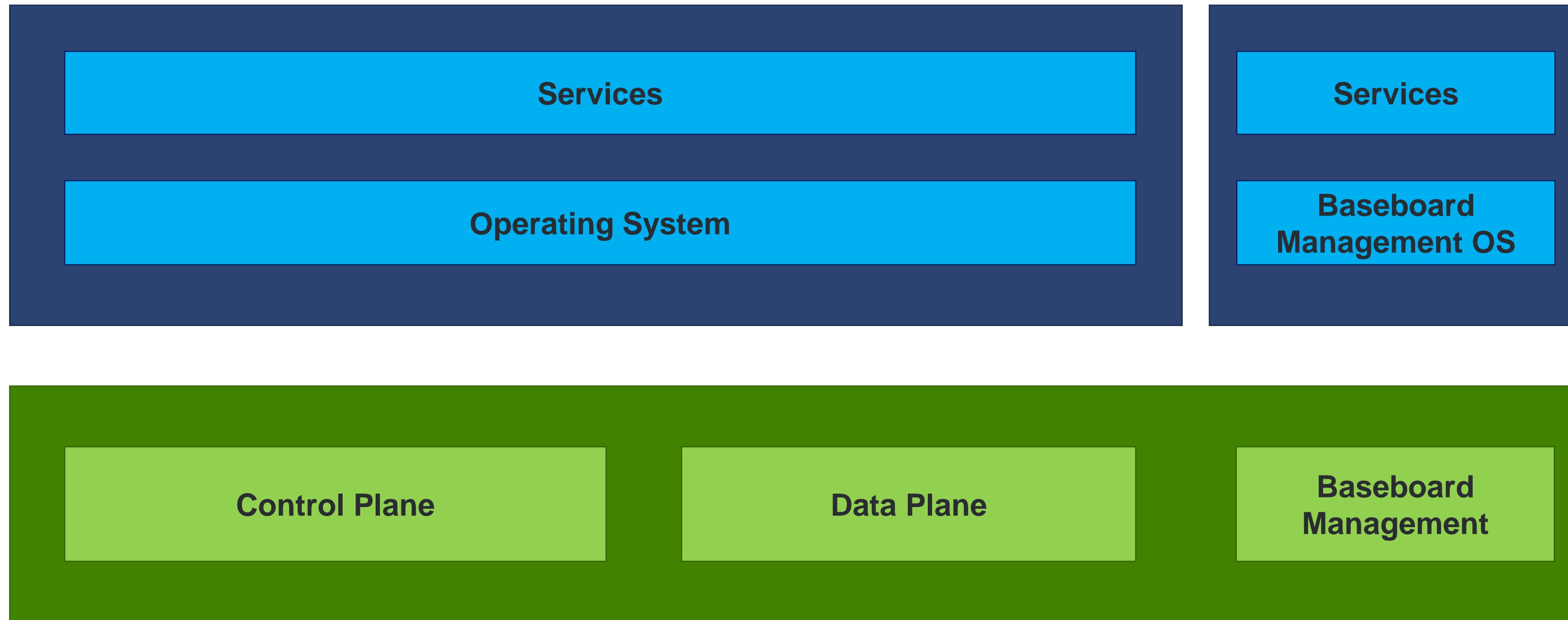
Baseboard
Management OS

Hardware

Control Plane

Data Plane

Baseboard
Management



Software

Services

Operating System

Services

Baseboard
Management OS

Hardware

Cooling

Power

Compute Unit

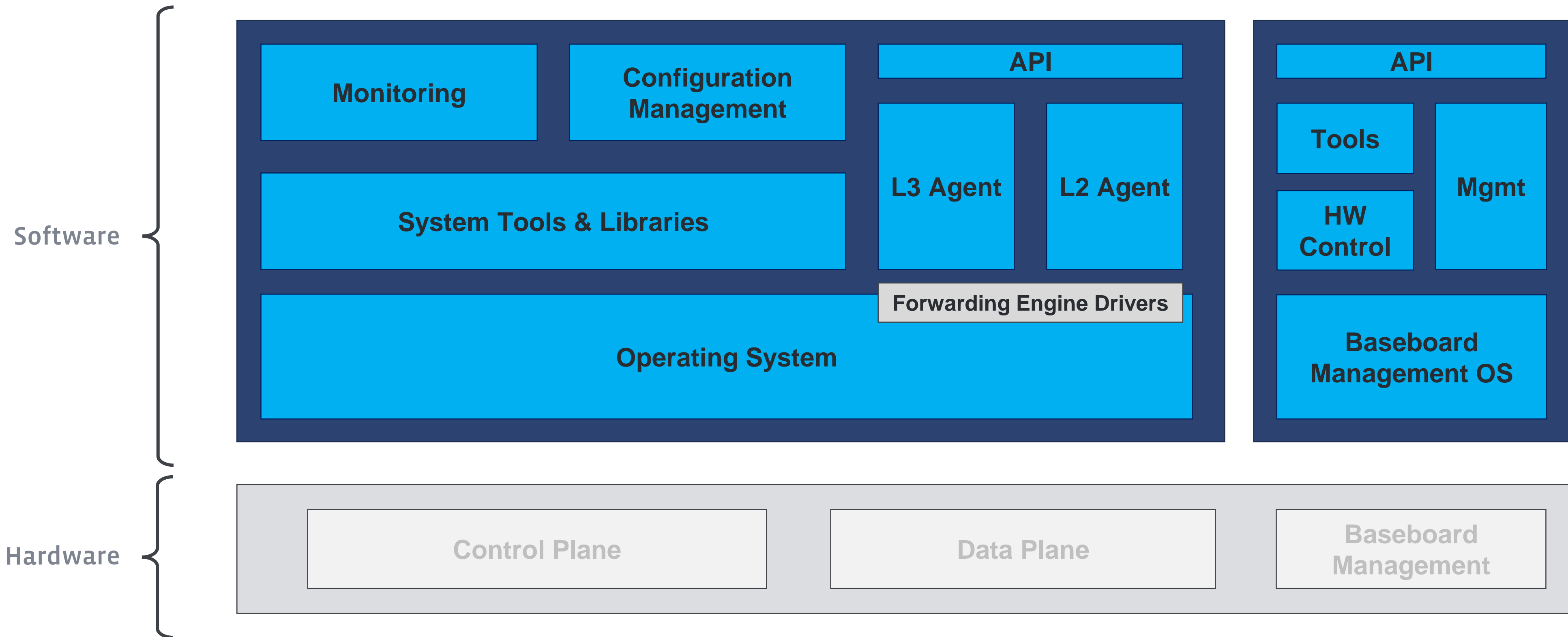
Baseboard
Management

Forwarding Engine

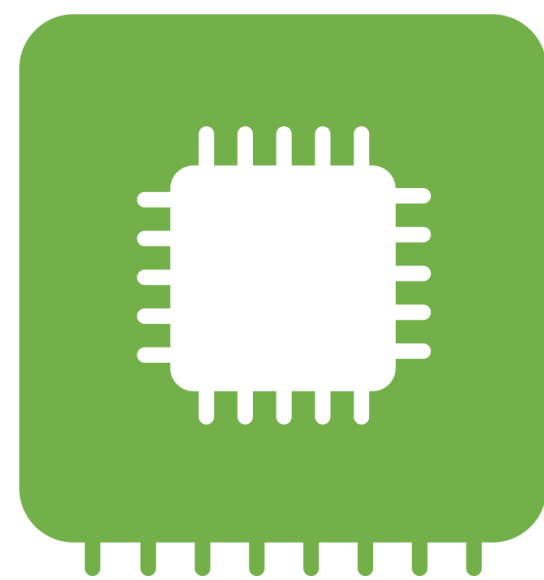
Console and OOB
Management Ports

Front Ports









OpenBMC

Software

Services

Operating System

Services

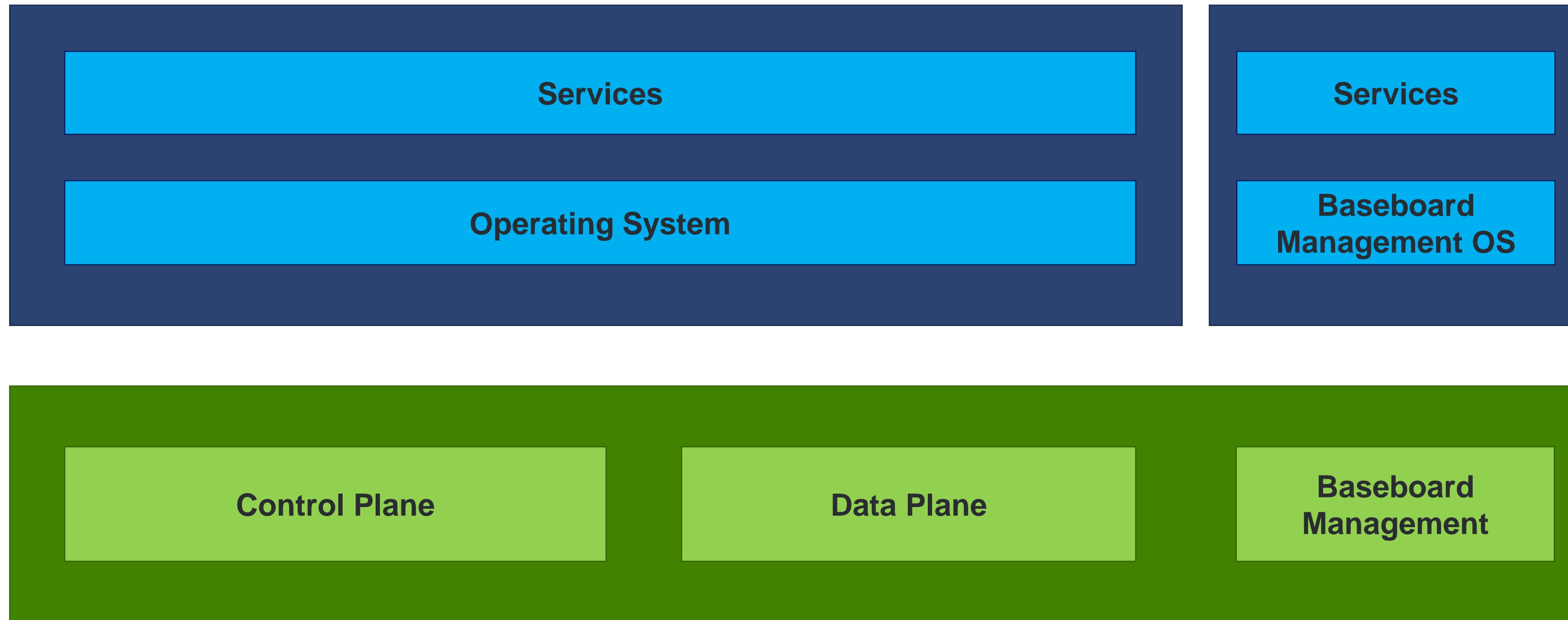
Baseboard
Management OS

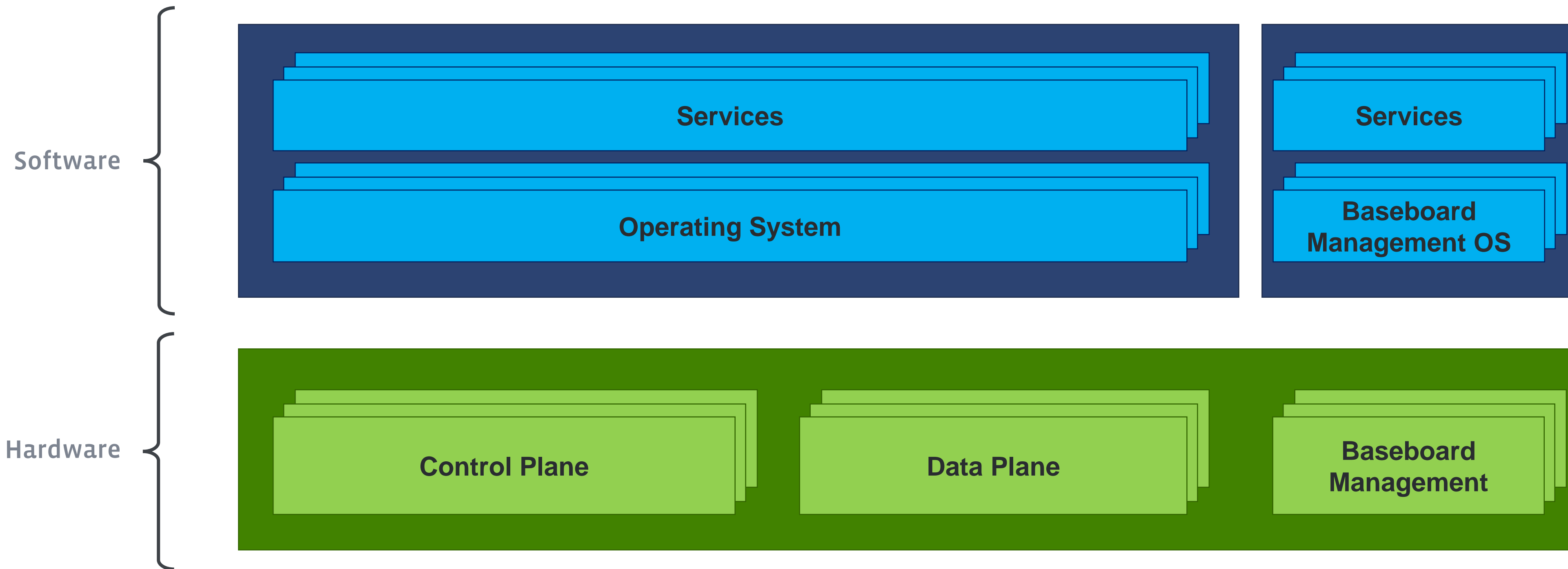
Hardware

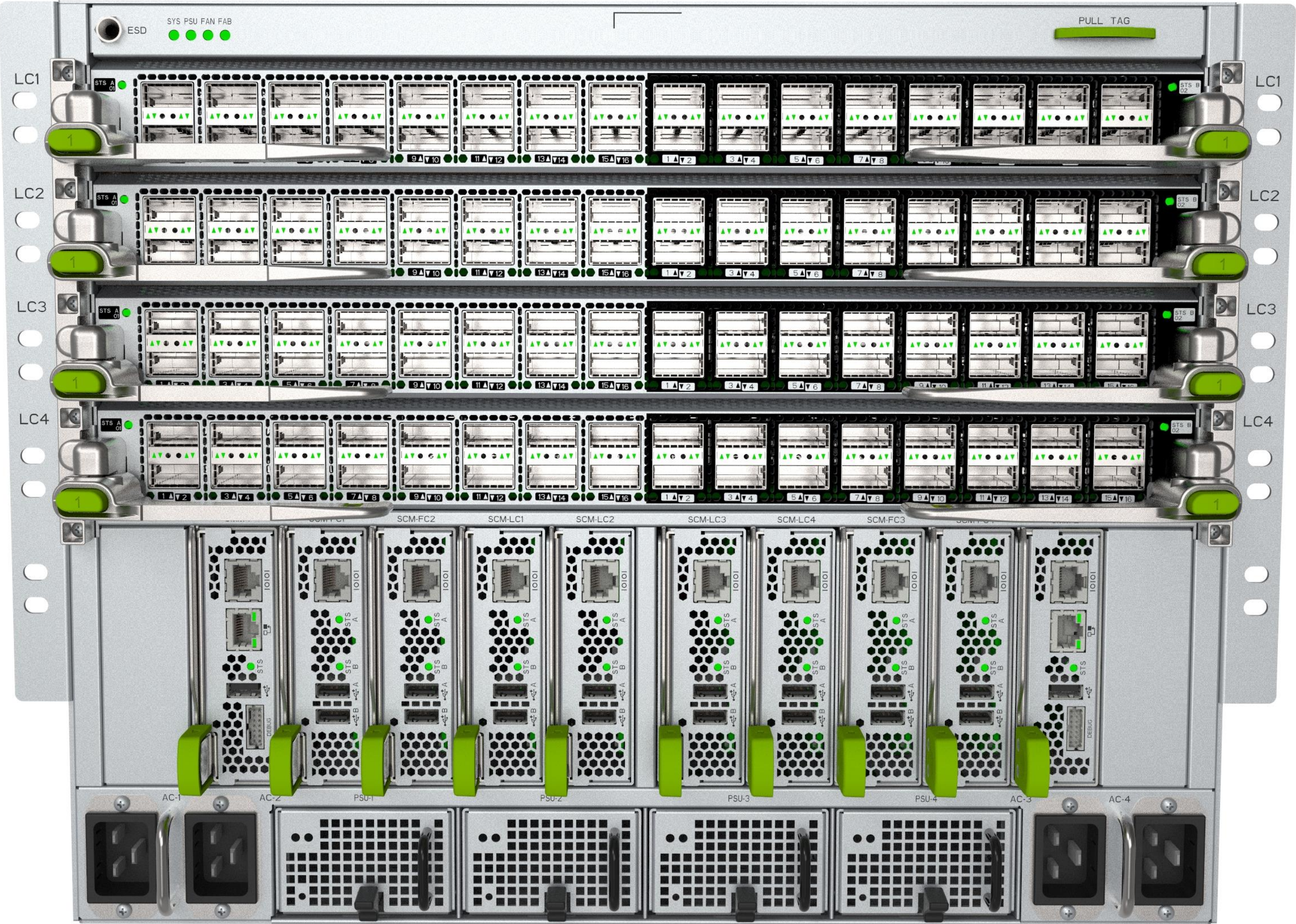
Control Plane

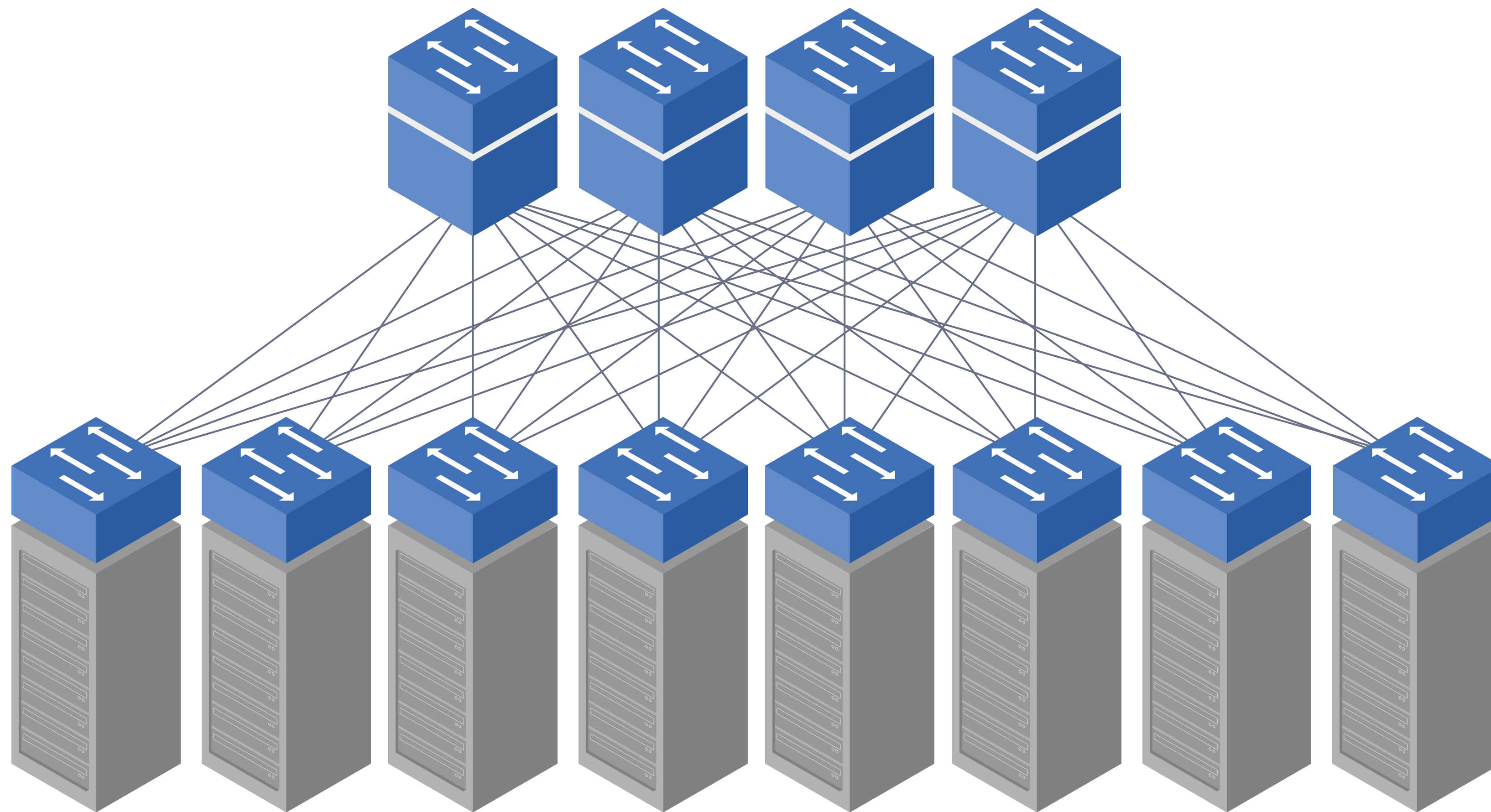
Data Plane

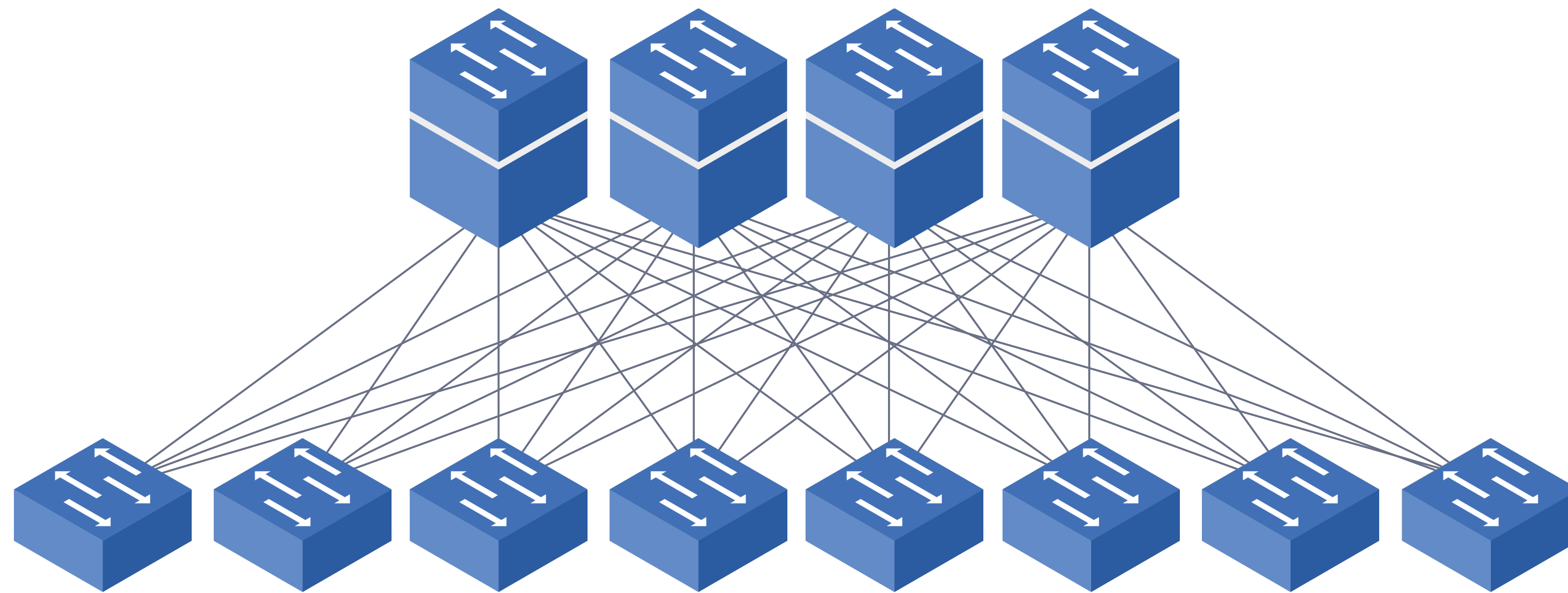
Baseboard
Management

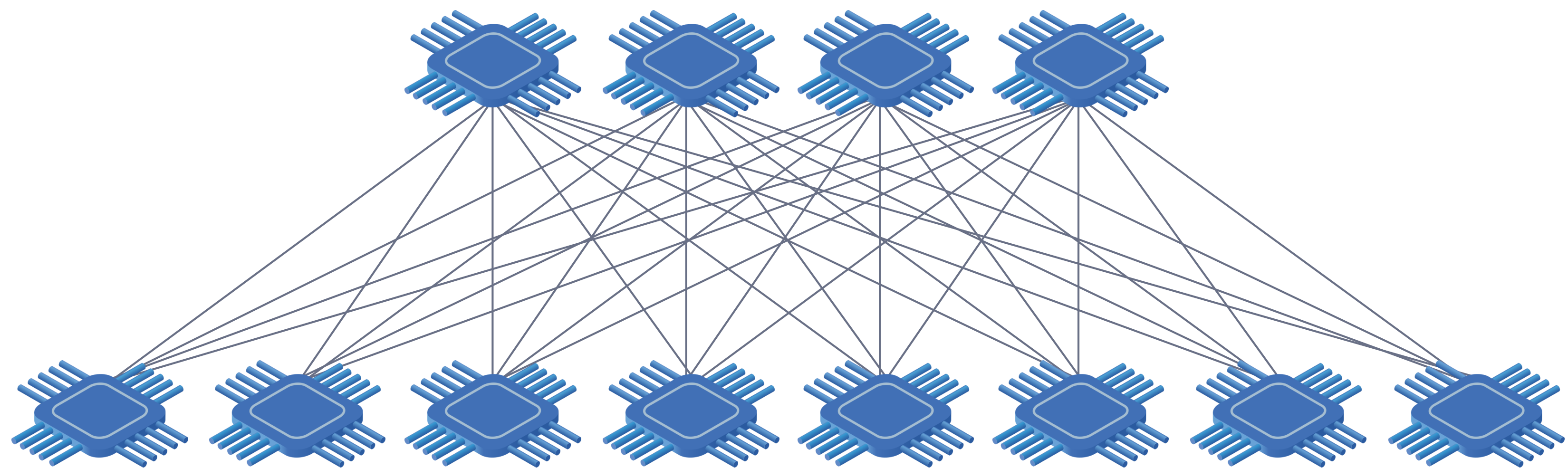




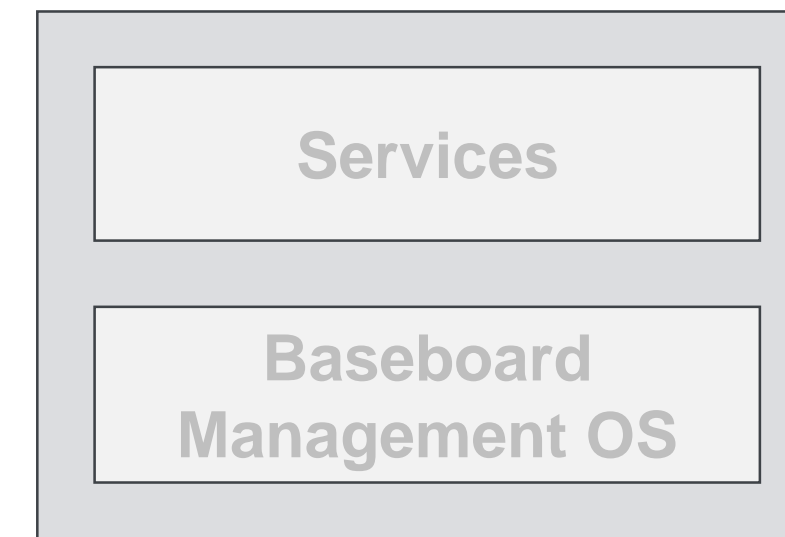
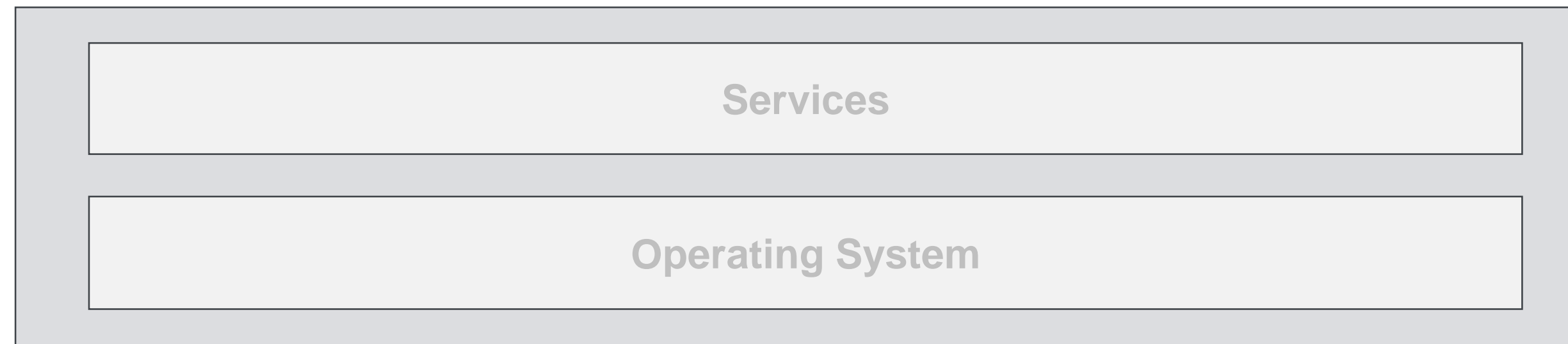




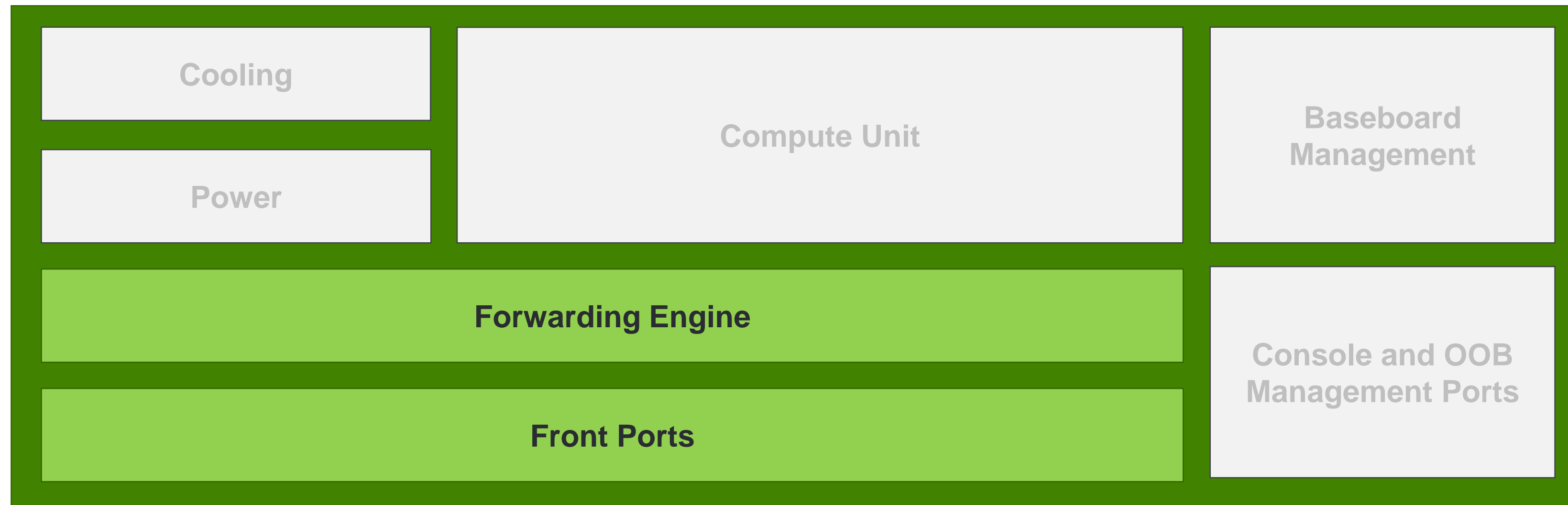




Software



Hardware



Software

Services

Operating System

Services

Baseboard
Management OS

Hardware

Cooling

Power

Compute Unit

Baseboard
Management

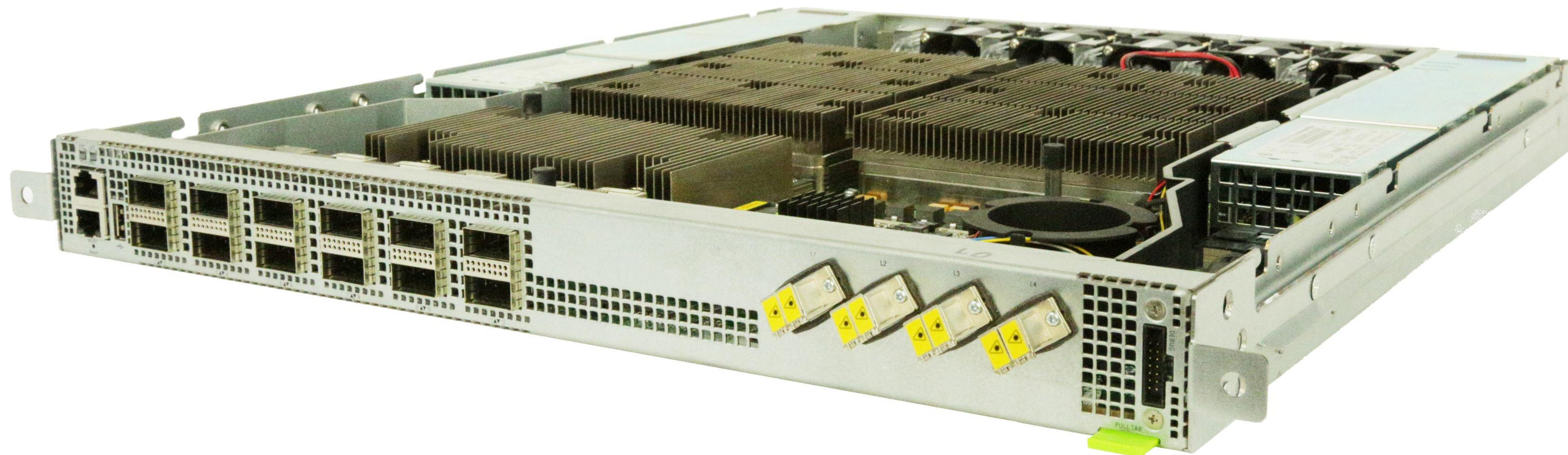
L2 Forwarding Engine

Optical Coherent Modem

Console and OOB
Management Ports

Front QSFP Ports

Front Optical Ports



Software

Services

Operating System

Services

Baseboard
Management OS

Hardware

Cooling

Power

Compute Unit

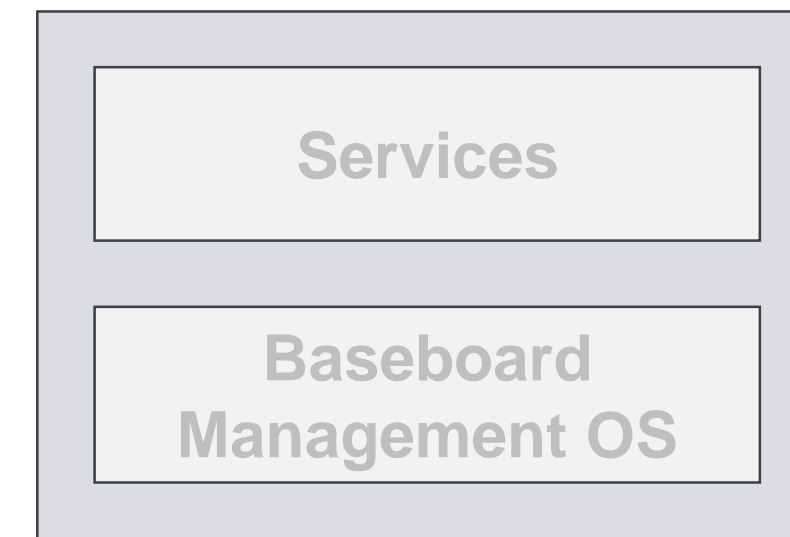
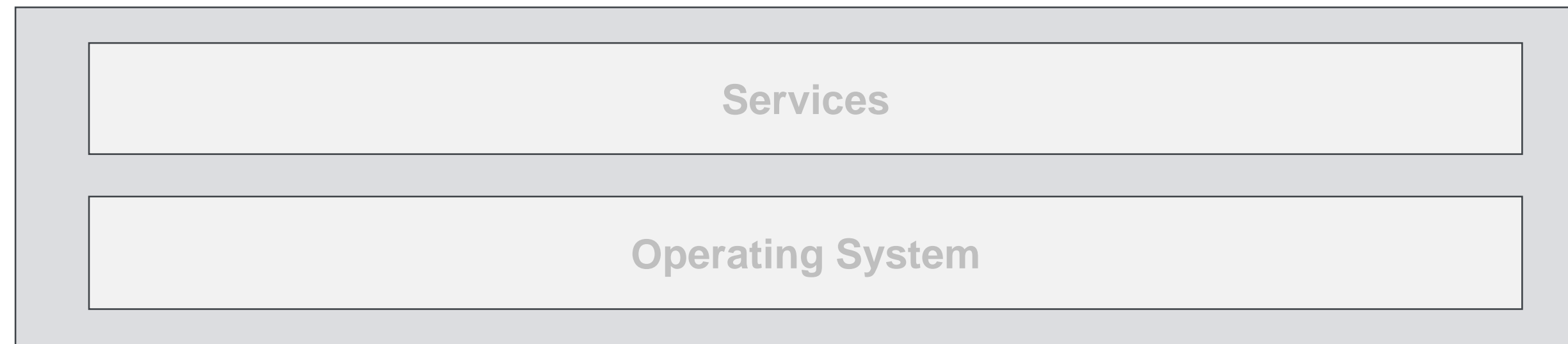
Baseboard
Management

Forwarding Engine

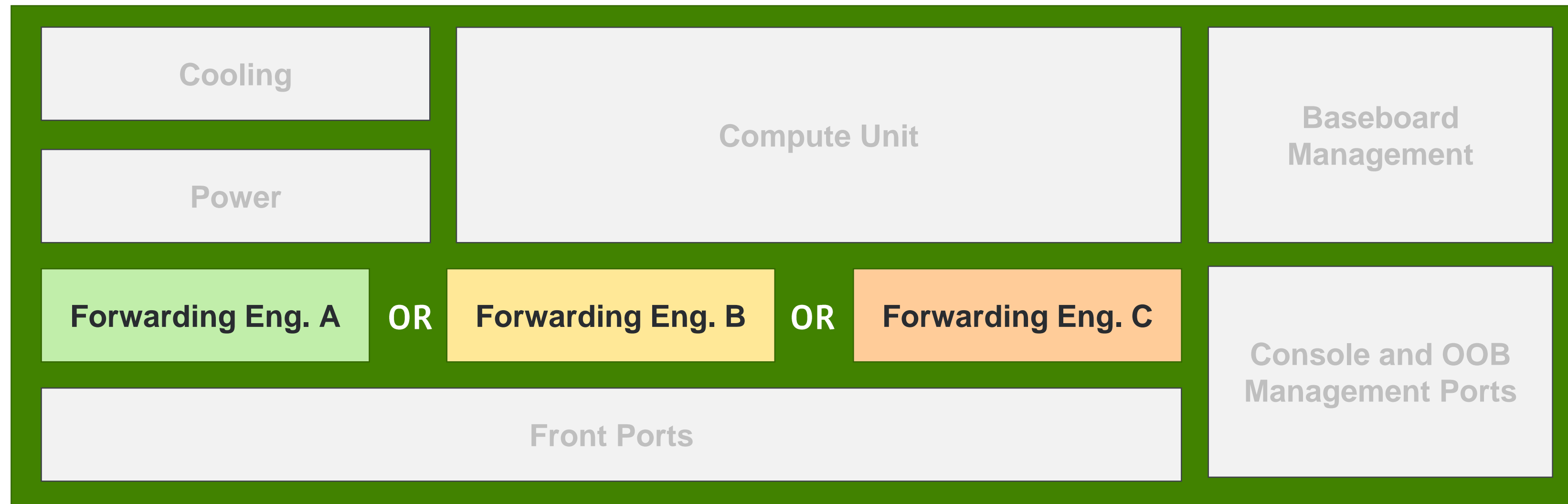
Front Ports

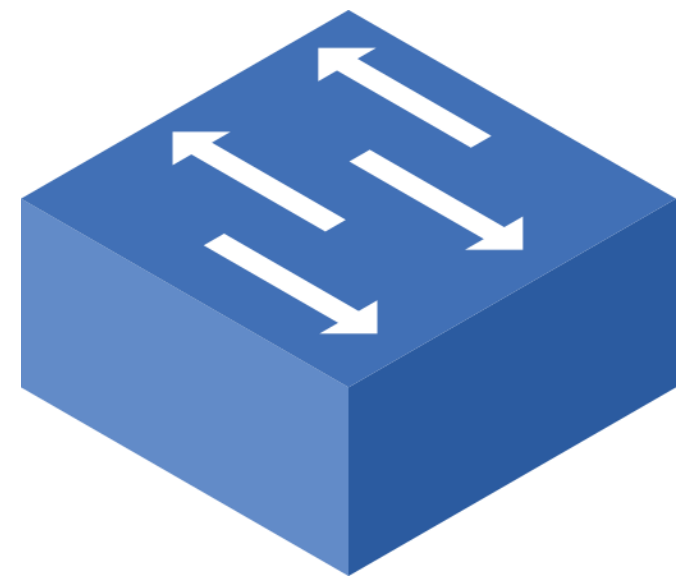
Console and OOB
Management Ports

Software

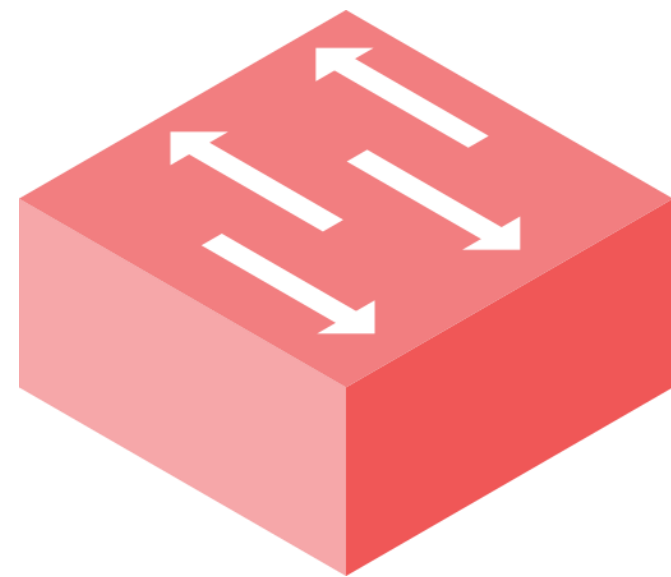


Hardware

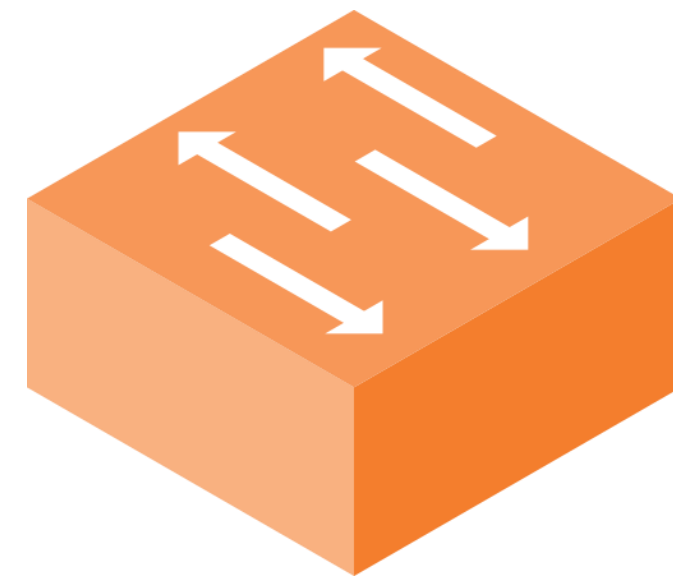




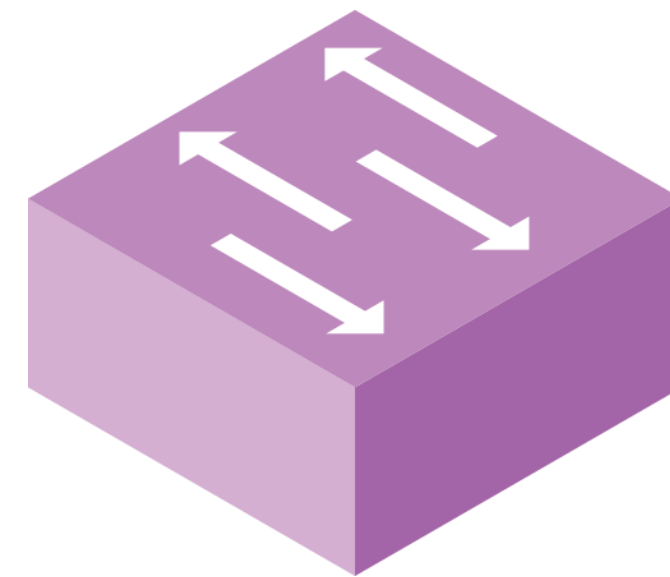
Wedge 100



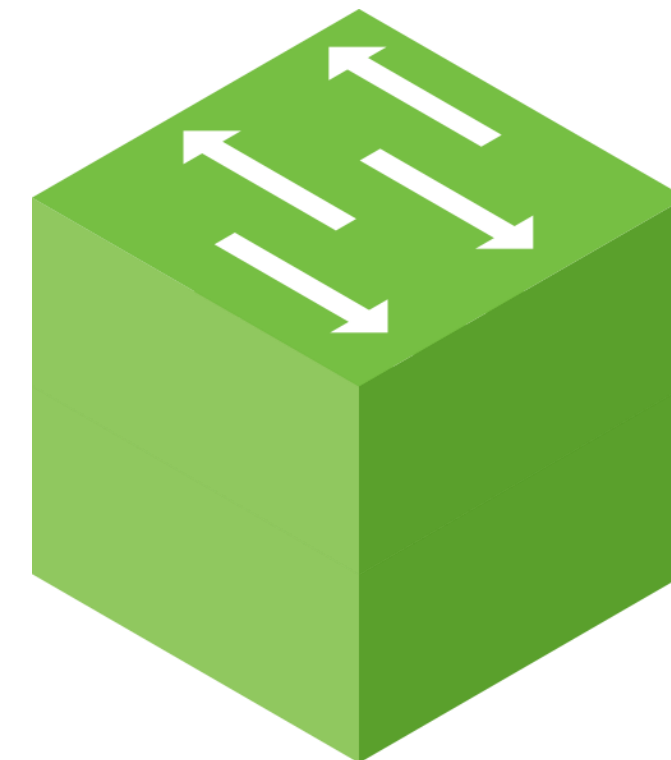
Wedge 100B



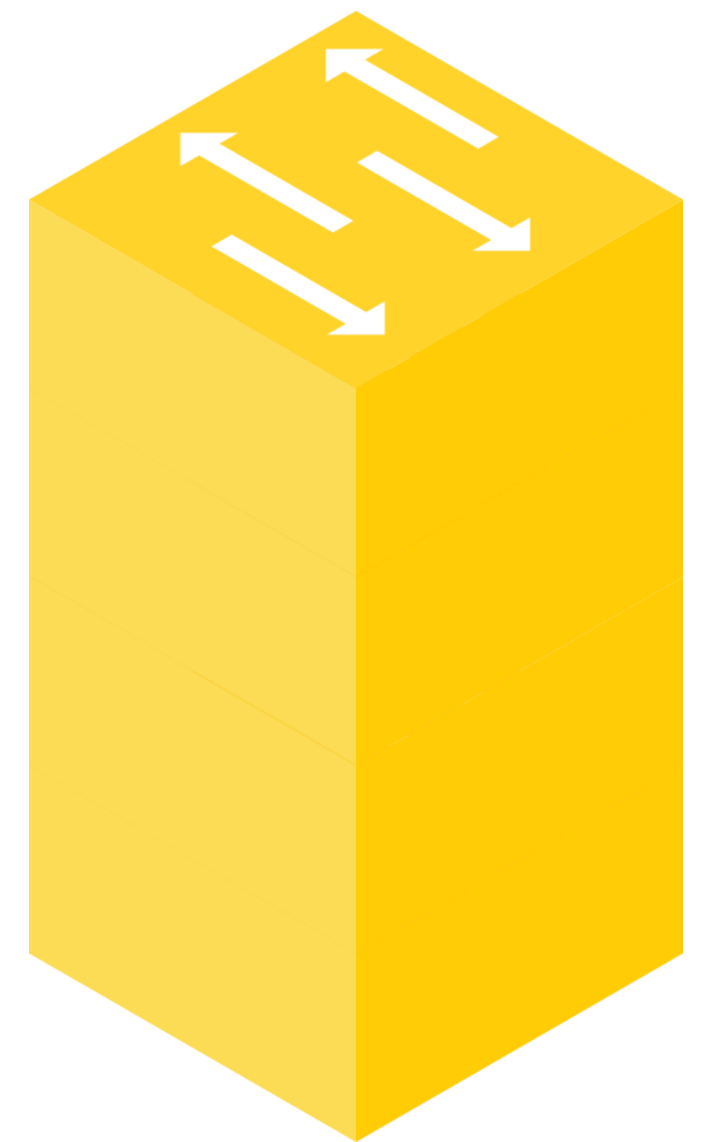
Wedge 100C



Off-chip
processing?



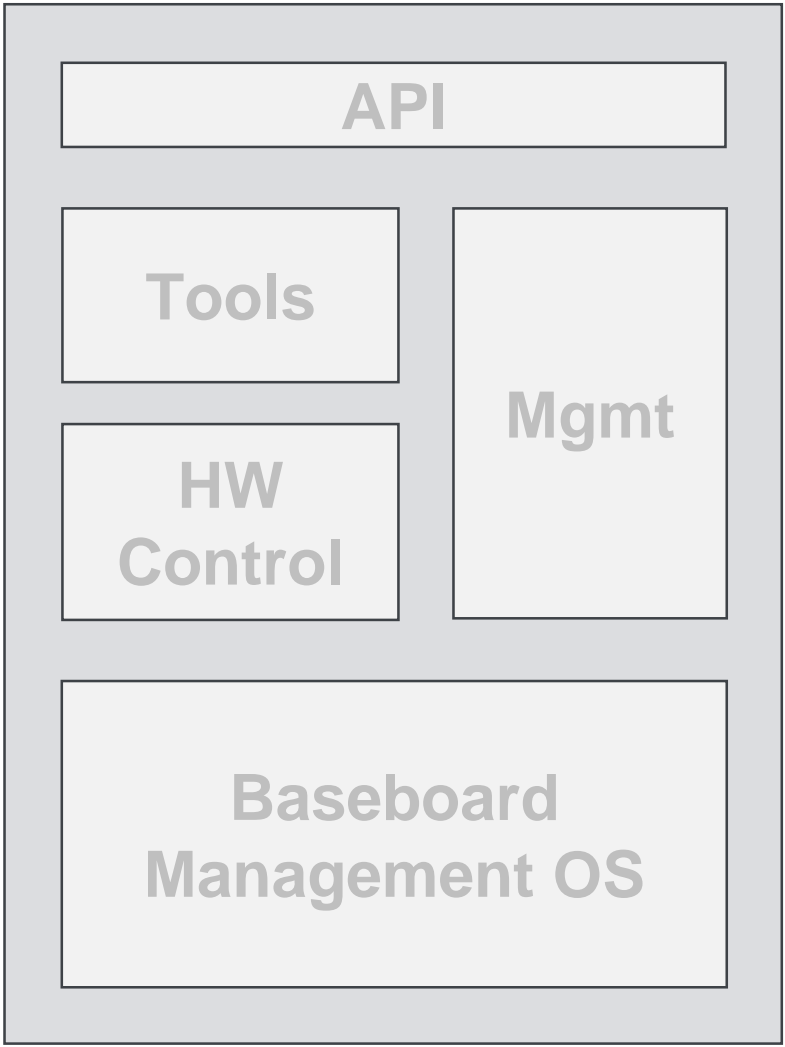
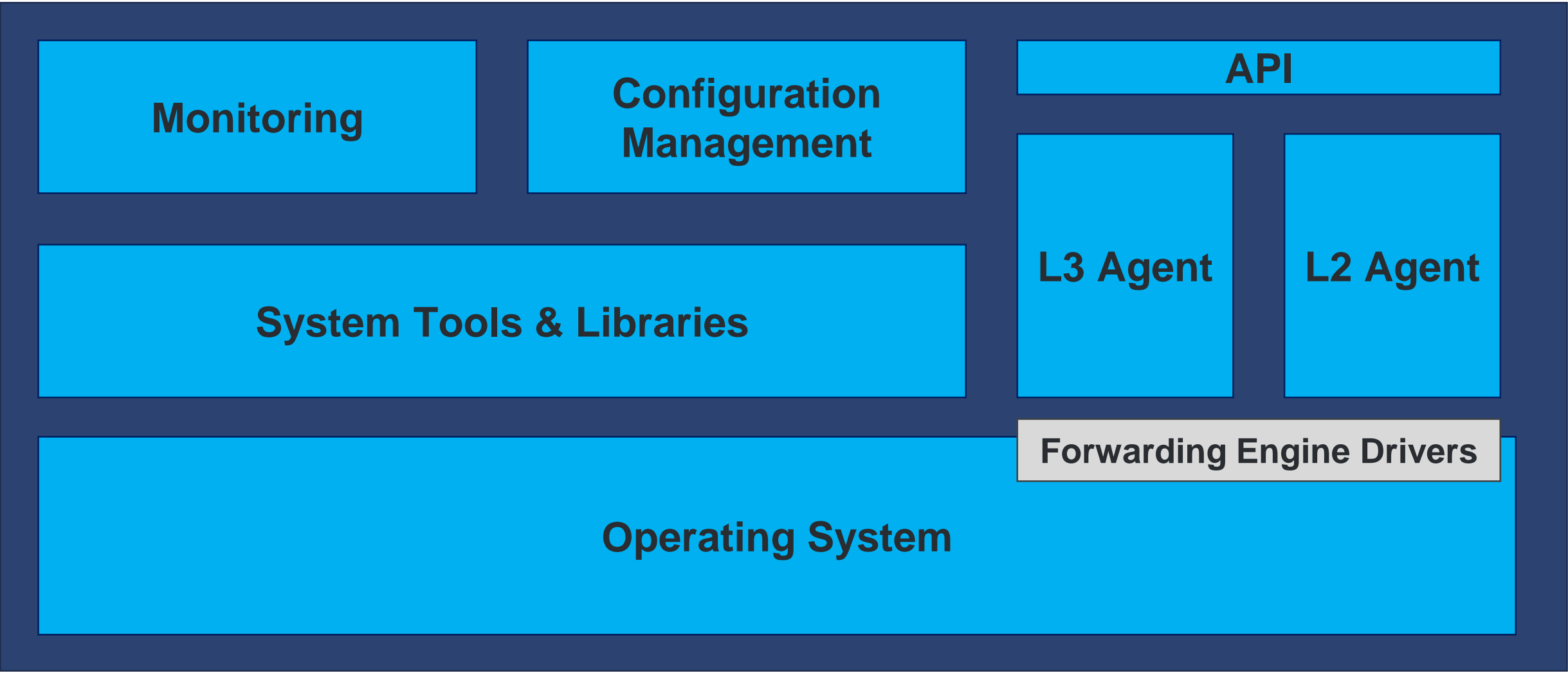
Double
Density?

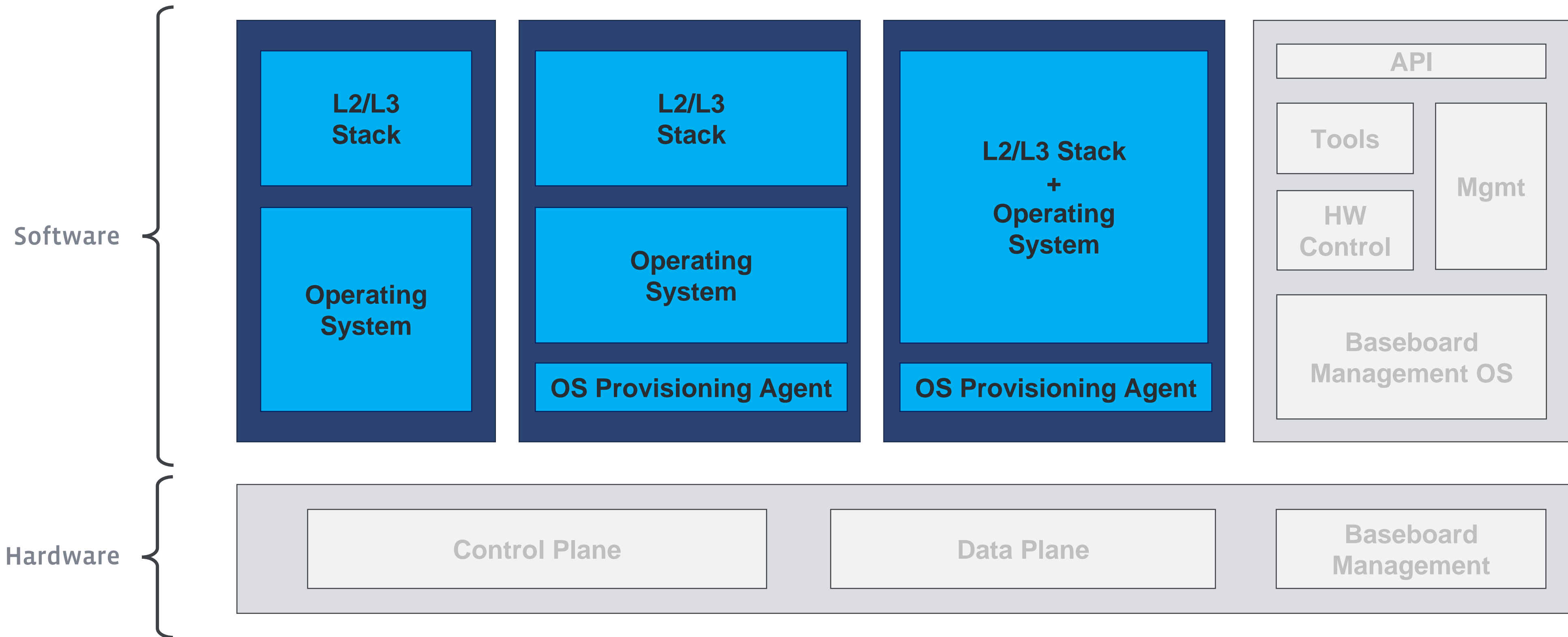


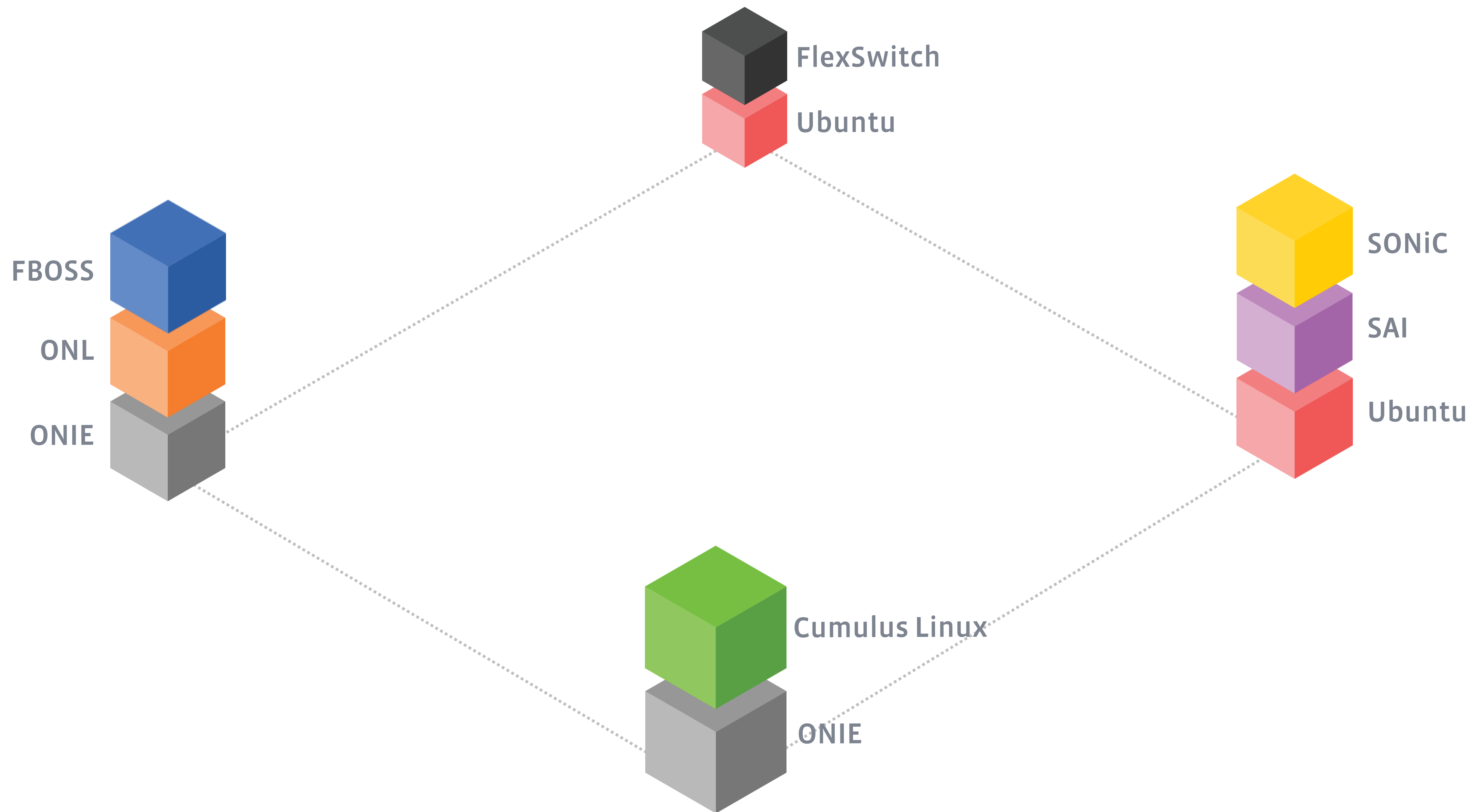
4x Density?

Software {

Hardware {









Wedge 40



Wedge 100



Voyager



2014

2015

2015

2016

2016

2017

6-pack



Backpack



Wedge 100S



**THIS JOURNEY
1% FINISHED**



OPEN

Compute Project

