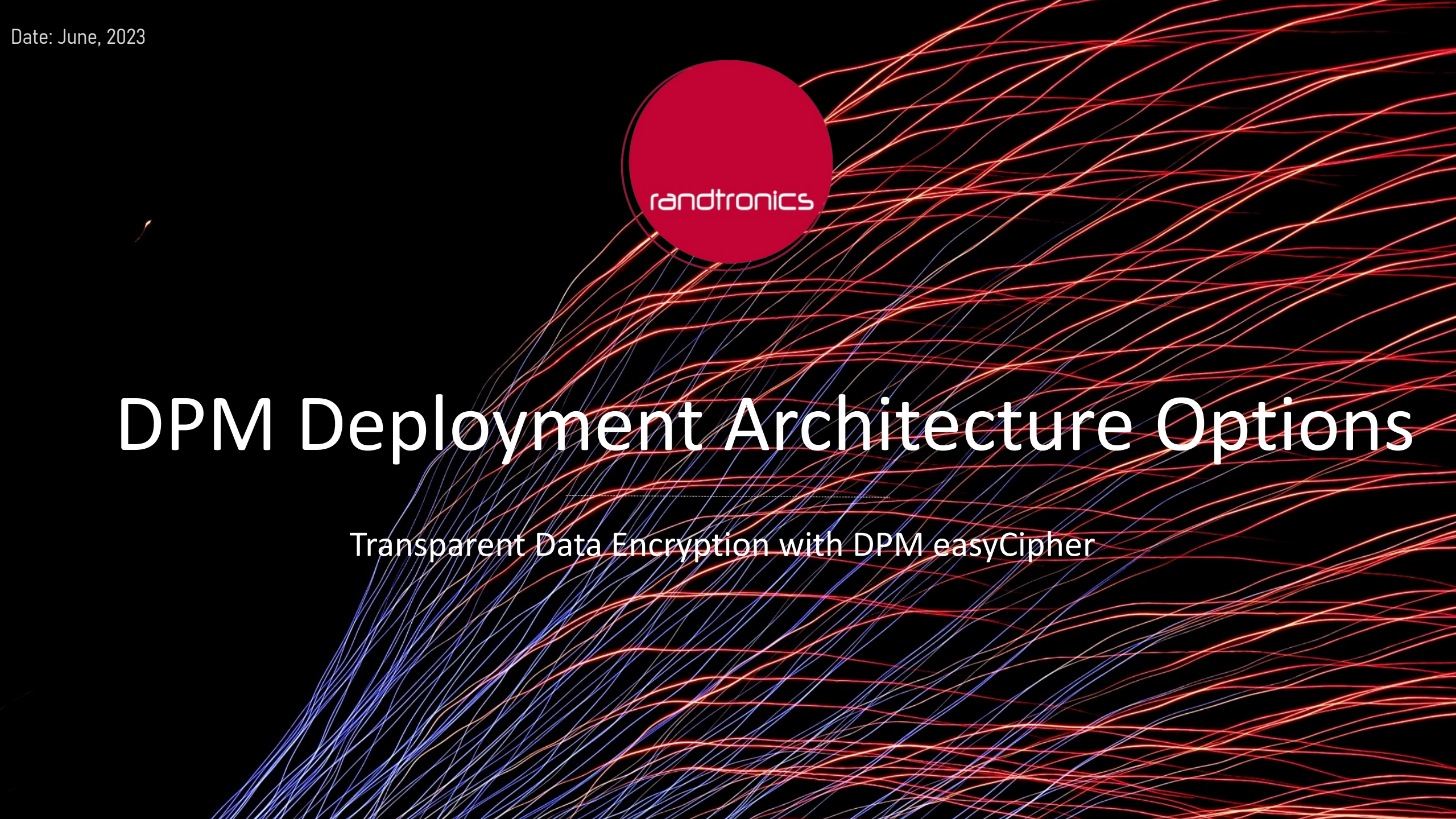
Date: June, 2023



DPM Deployment Architecture Options

Transparent Data Encryption with DPM easyCipher

Welcome

DPM Deployment Options

Scope:

- Transparent Data Encryption
- DPM easyCipher

Contents

a. Design process
c. Physical install
d. Just another mission critical app
e. Typical production configuration
f. Load Sharing
g. On-prem, cloud and hosted options

Design process

Design Envelop

- Data Protection Functions
- Fixed Design Goals
  - Availability
  - Role segregation
- Variable Scale Factor
  - # of Servers
  - # Apps
  - # DB's
  - # Laptops

Hardware

Resources for Managers:

- # of Servers (VME)
- # of CPU cores
- Network resources (controlling latency)

Software Licenses

- # of Server OS Licenses
- # of CPU cores
- # of DB licenses
- # level of DB license (size/features)

IT Policy Choices

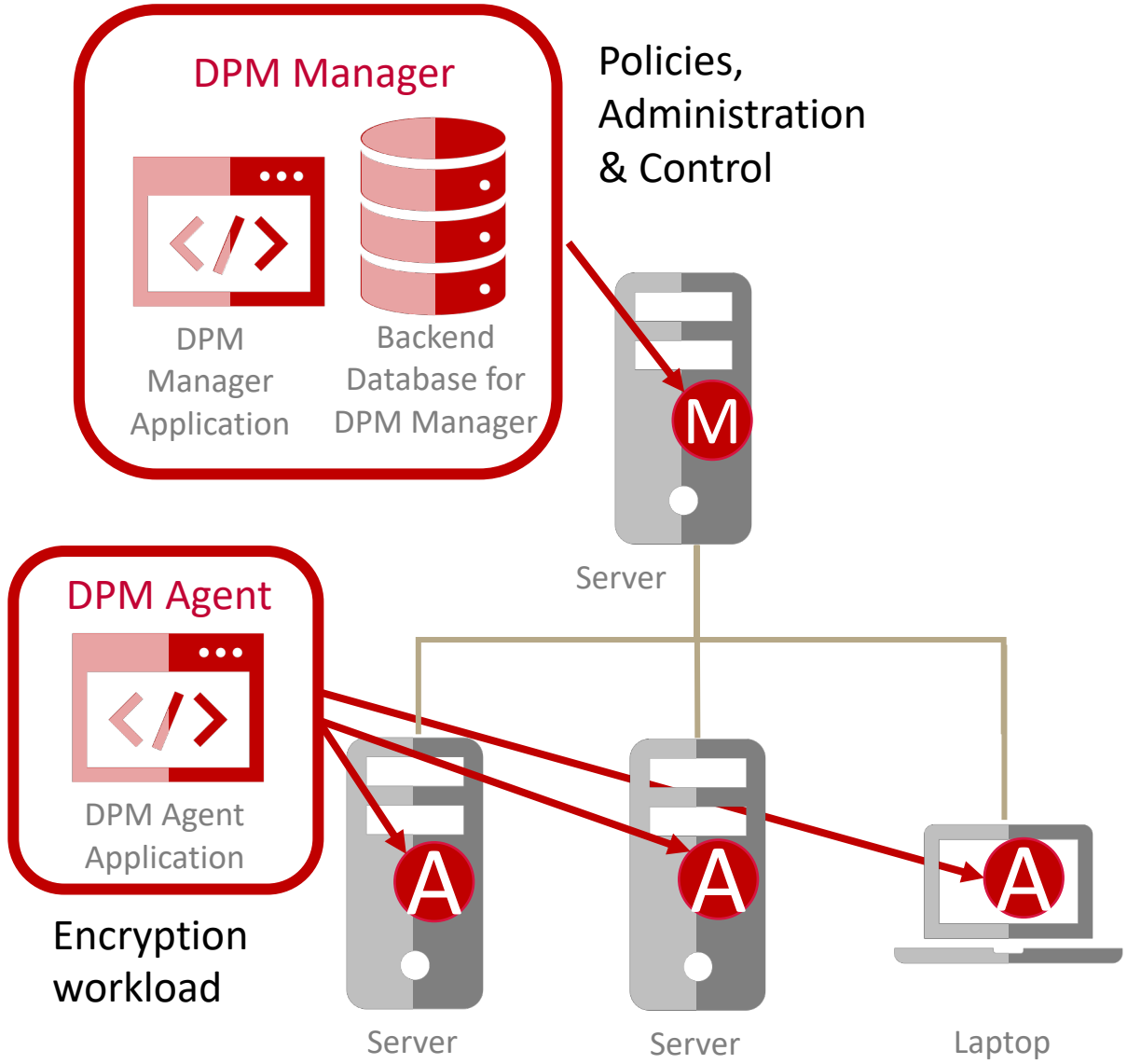
- SOE preferences
- Volume licensing arrangements
- In-house engineering capabilities
- IT Support arrangement

Deployment Design

Physical Install

DPM products are quick to deploy and easy to manage:

- Installed in standard Windows/ Linux computing environments
- Deployed at scale using standard enterprise software distribution tools
- Agents self-register at start-up



Just another other mission critical app

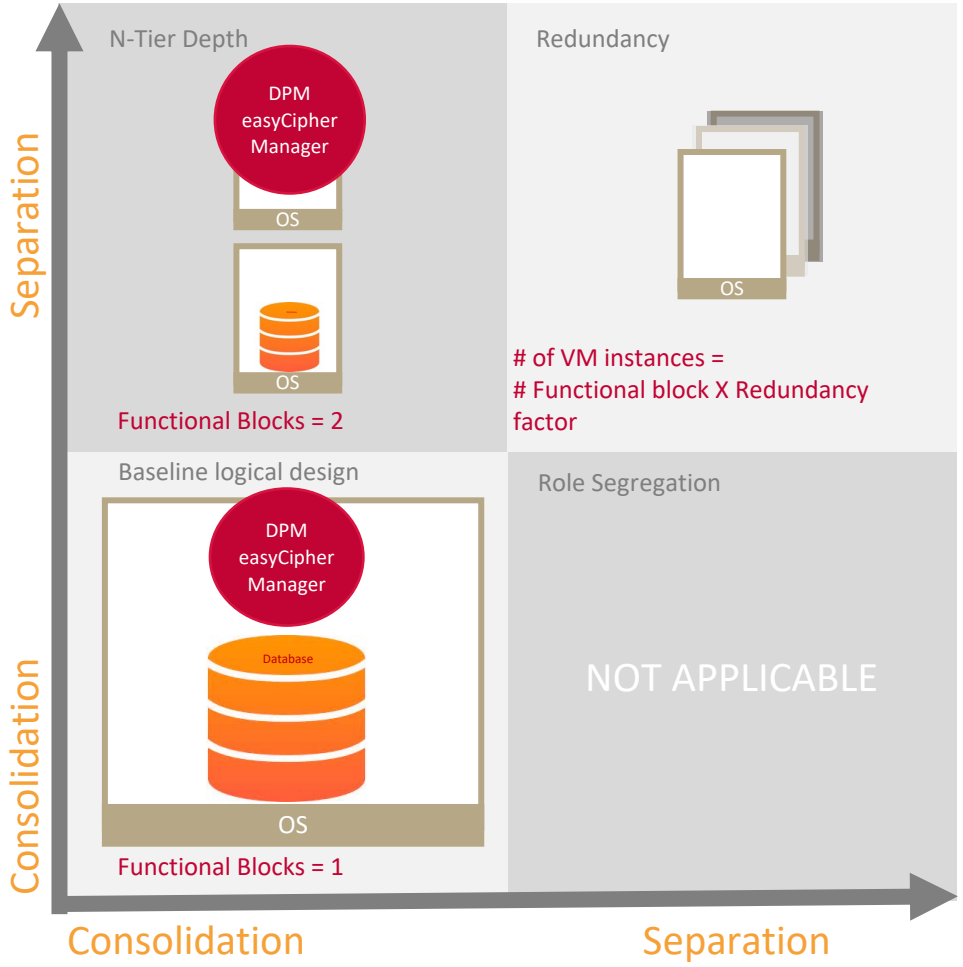
Redundancy and resilient via multiple manager instances.

Typical deployment has 4 manager instances:

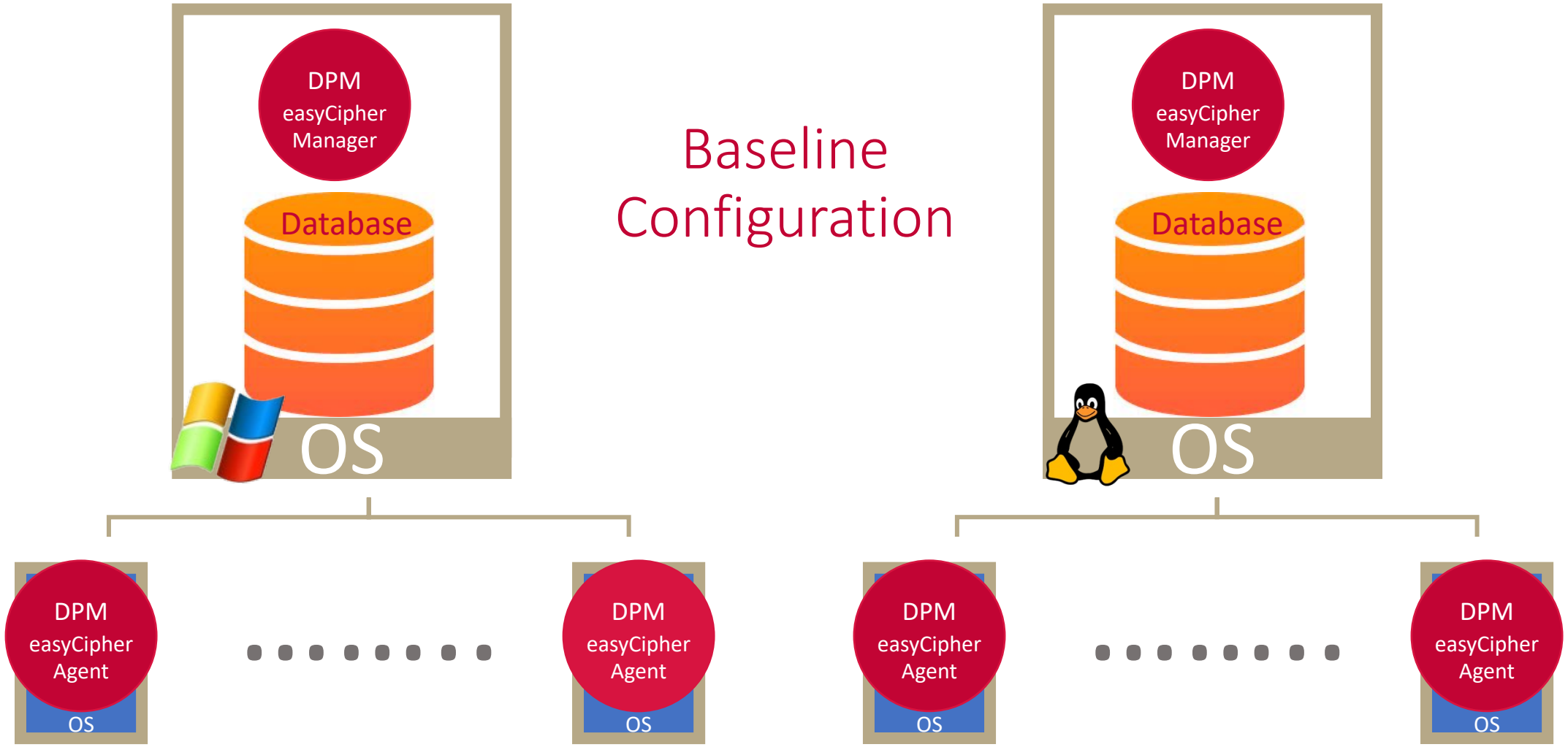
- 2X Production environments - redundant
- 1X for Disaster Recovery
- 1X Test – isolated

Scale-up and Backup via standard methods:

- Increase compute resources available to manager servers
- Split backend database onto separate server

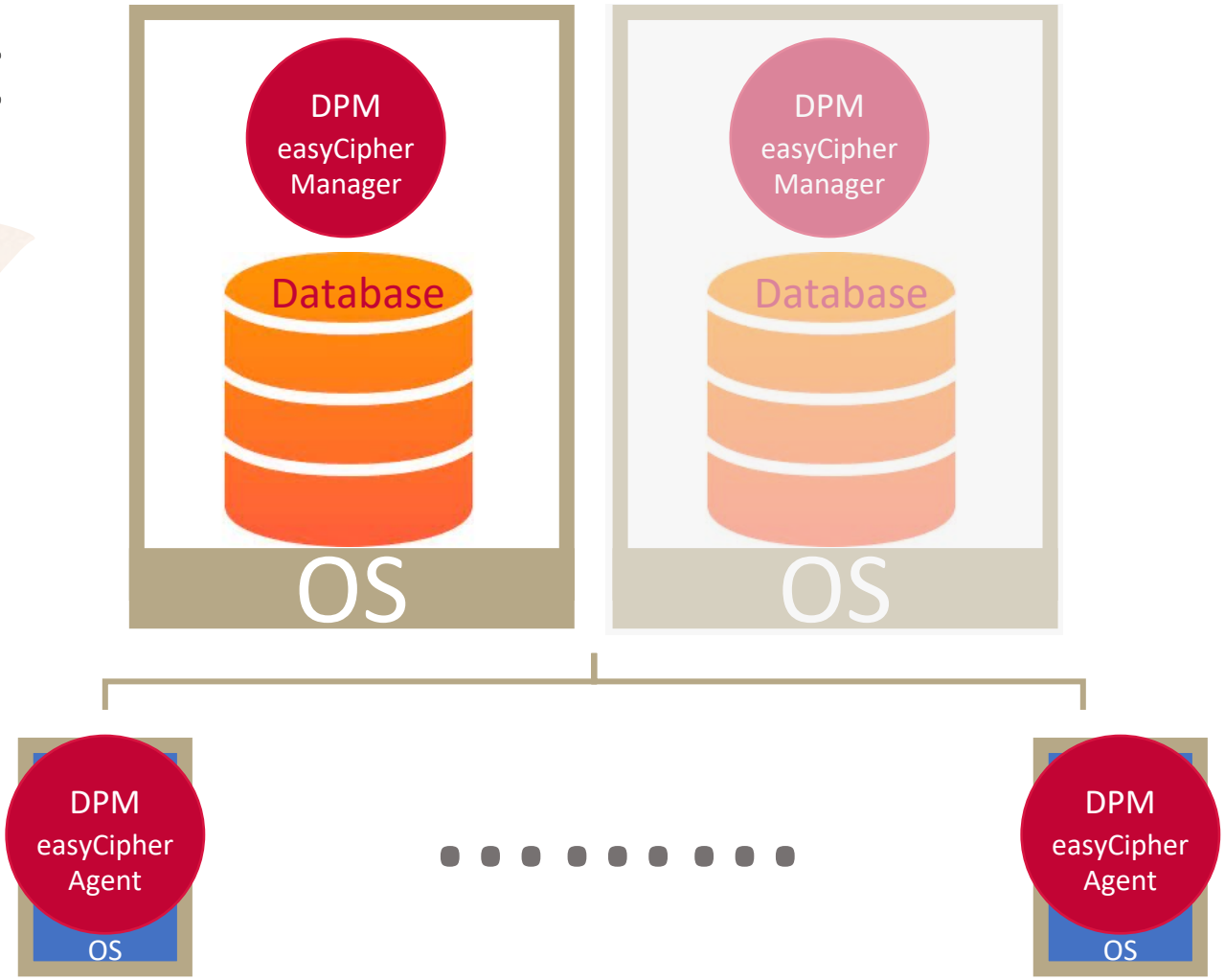


Baseline Configuration



Production Environment

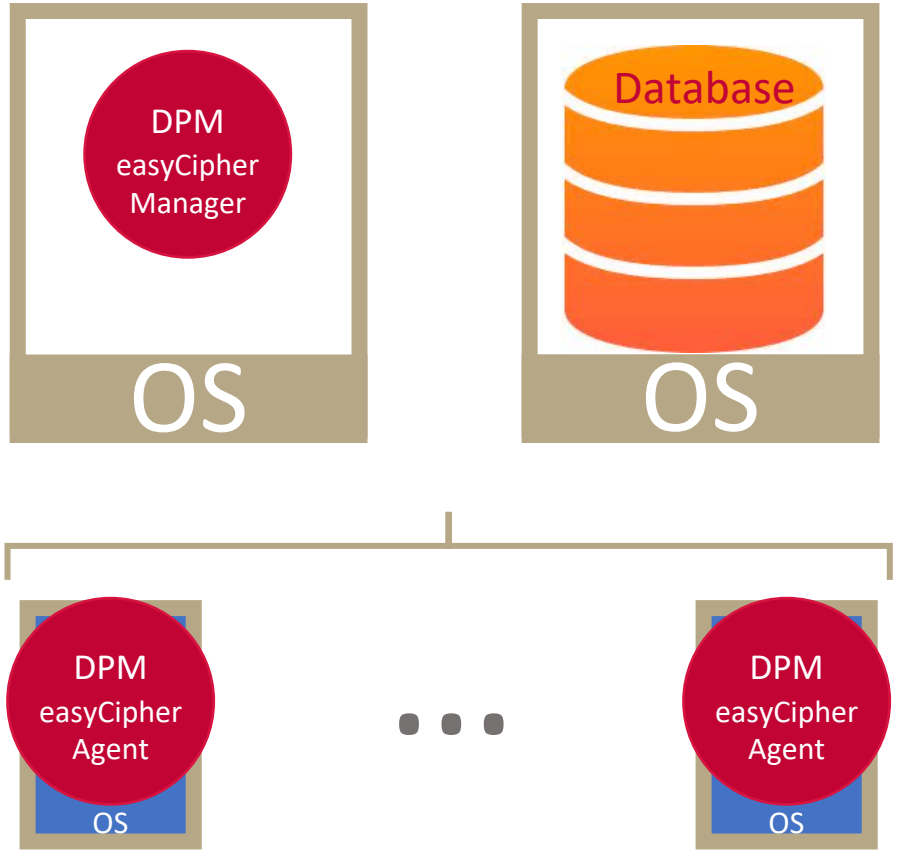
- Typical production environment has
- 2x manager instances for redundancy
- 1x manager instance for disaster recovery
- 1x manager instance for test environment



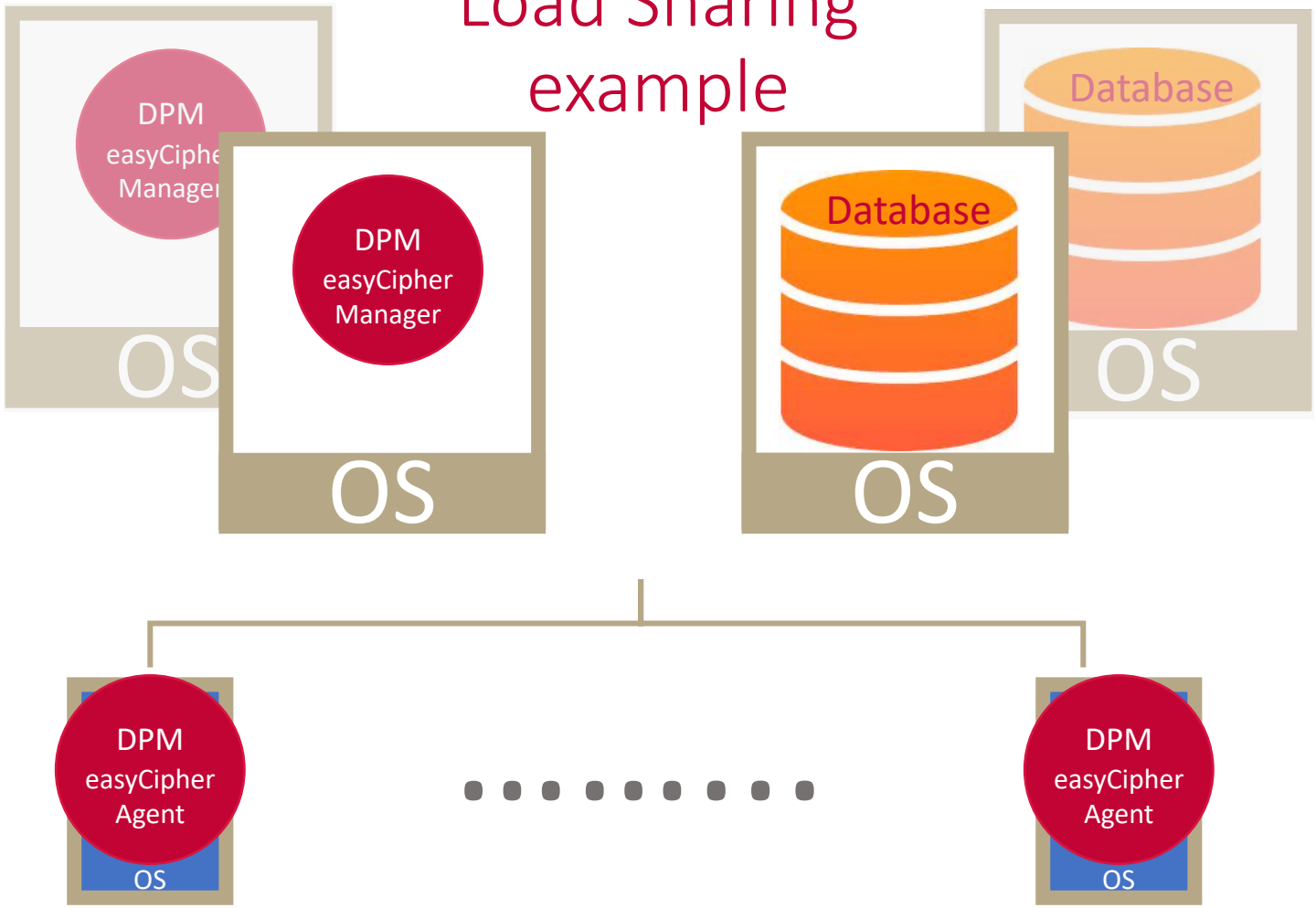
Load Sharing

Options available for customers requiring higher performance include:

1. Increase compute resources available to manager server
2. Splitting backend database onto a separate server
3. Multiple instances of Manager / Database servers in a load-sharing array



Load Sharing example

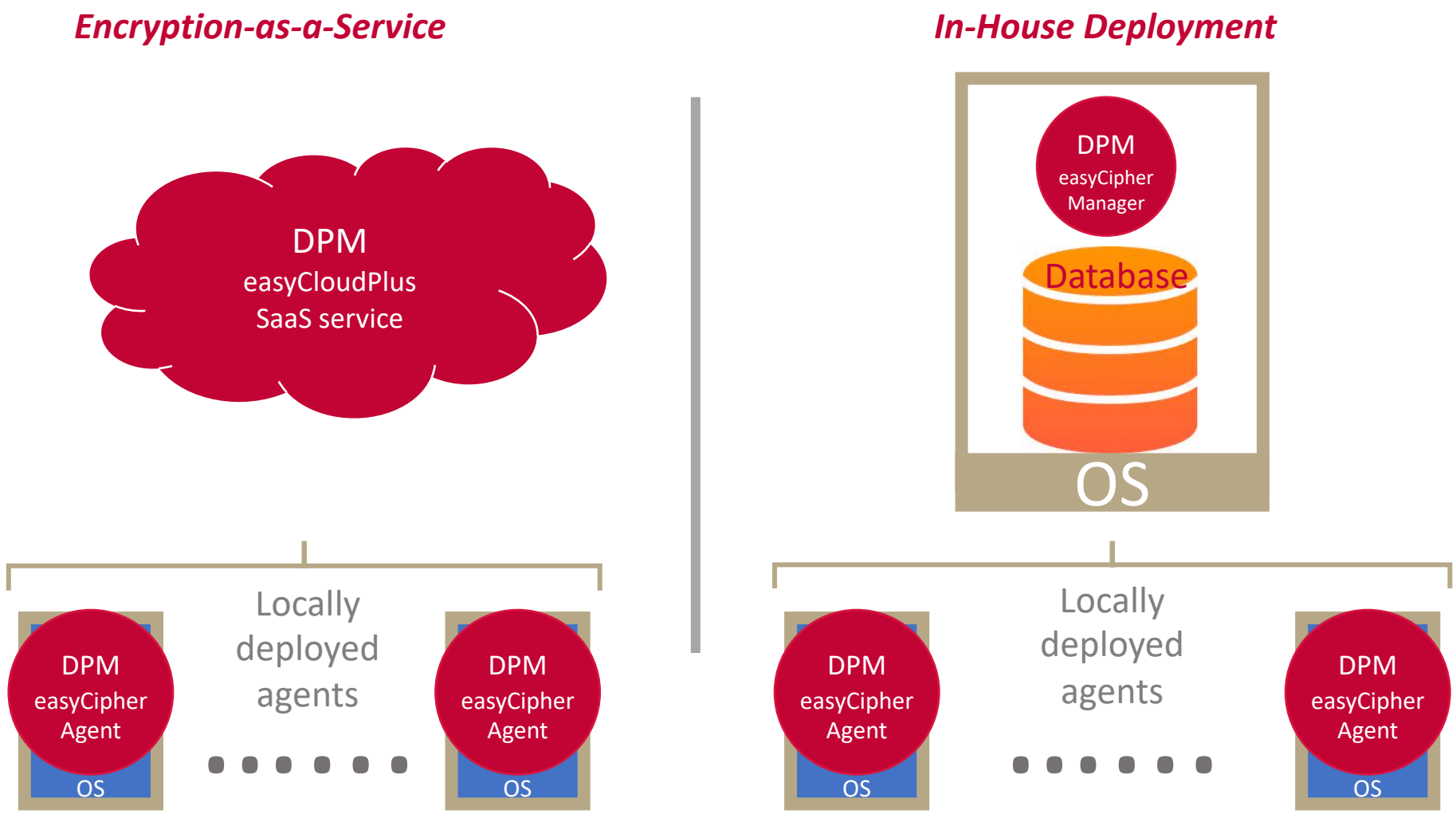


More Options

Customer installed managers:
- Physical server
- Virtual server

Or

Randtronics hosted manager ‘encryption-as-a-service’



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