



## Overview

---

- [Overview, on page 1](#)
- [Cisco UCS C220 M5 Server \(SFF Drives\) Front Panel, on page 5](#)
- [Cisco UCS C220 M5 Server Rear Panel, on page 6](#)

## Overview

You can deploy the Tetration (Secure Workload) M5 cluster in either of the following ways:

- Large-form factor 39-rack unit (RU) platform (C1-Tetration single rack) for data centers with more than 5000 servers



---

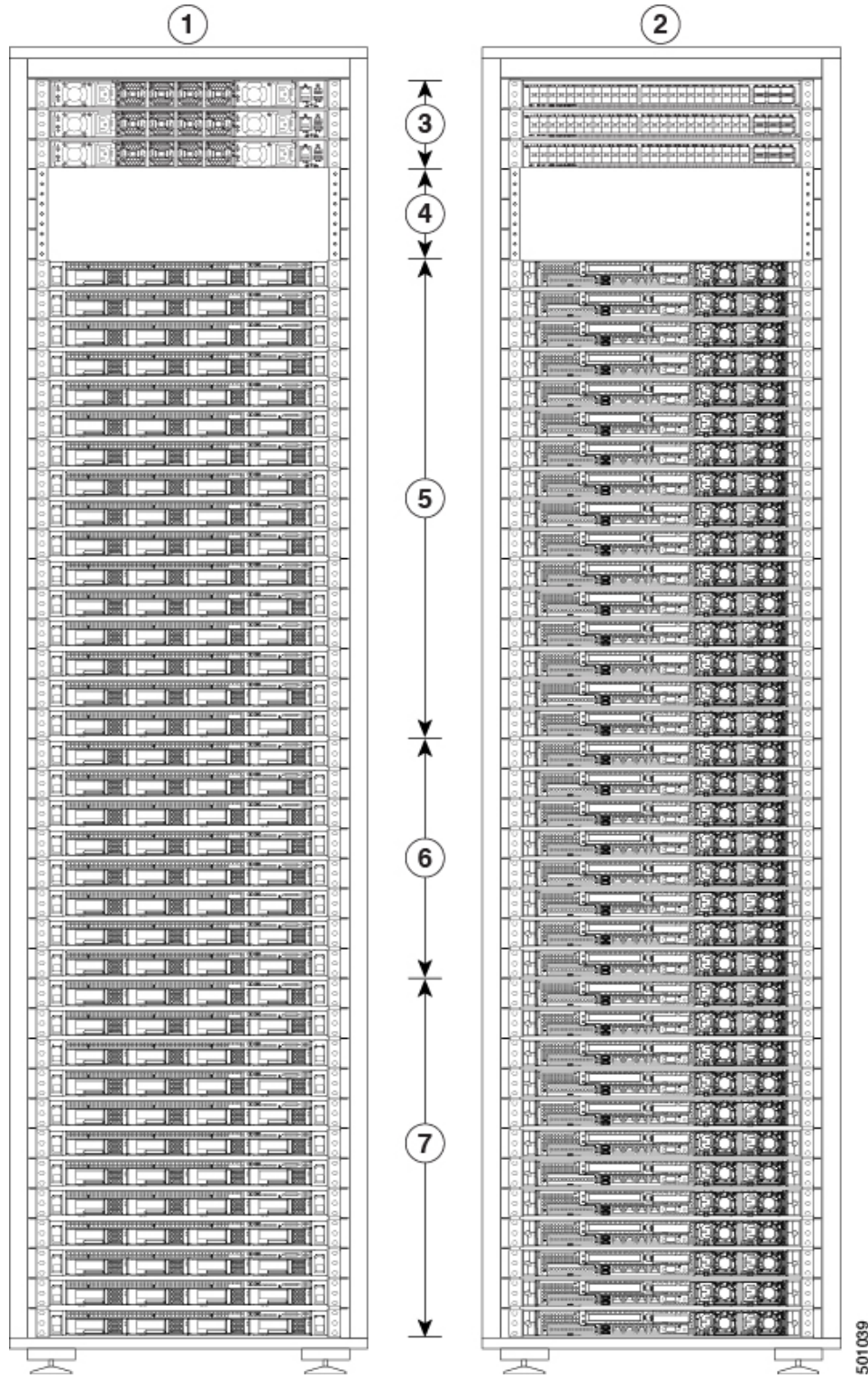
**Note** You can deploy the large-form factor platform in either one or two racks depending on your requirements. See the following C1-Tetration single rack and dual rack figures for examples.

---

- Small-form factor 8-RU platform (C1-Tetration-M) for data centers with fewer than 5000 servers. See the C1-Tetration-M figure for the example.

The following figure shows the front and rear of the C1-Tetration single rack.

Figure 1: C1-Tetration Single Rack Front and Rear

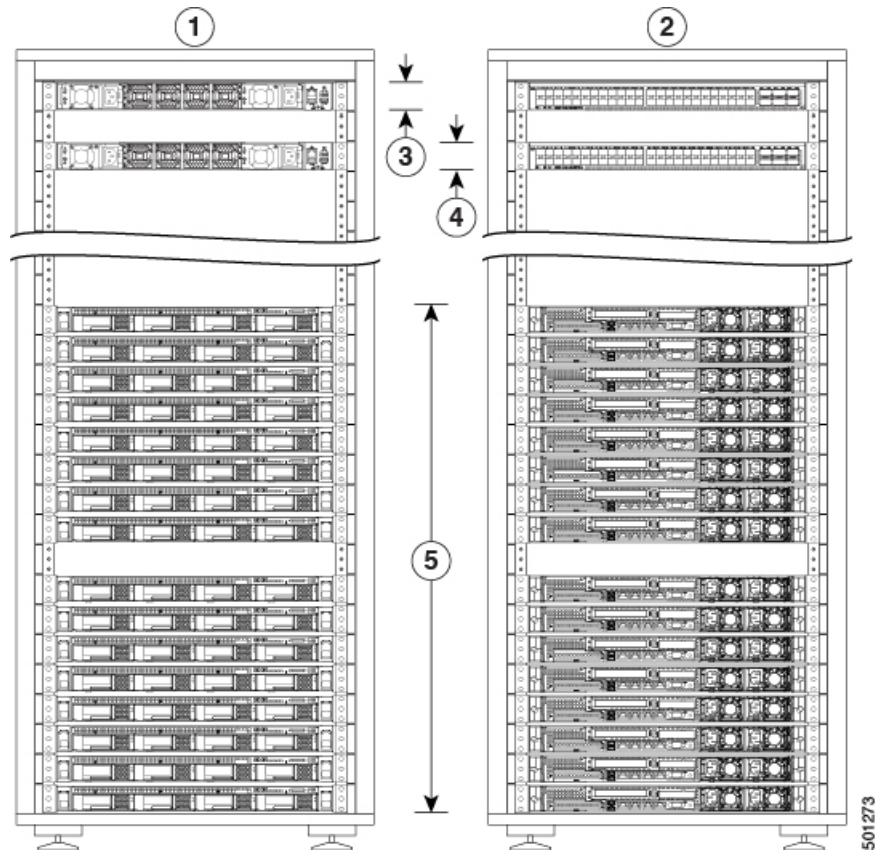


|                           |                         |
|---------------------------|-------------------------|
| 1 Front (cold aisle view) | 2 Rear (hot aisle view) |
|---------------------------|-------------------------|

|   |  |   |                                     |
|---|--|---|-------------------------------------|
| 3 | One spine (RU 42) and two leaf switches: leaf 2 (RU 40) and leaf 1 (RU 41) | 4 | Open rack units (RU 37 to 39)       |
| 5 | 16 compute servers (RU 21 to 36)   | 6 | Eight serving servers (RU 13 to 20) |
| 7 | 12 base servers (RU 1 to 12)   |   | —                                   |

The following figure shows the front and rear of rack one of the C1-Tetration dual rack.

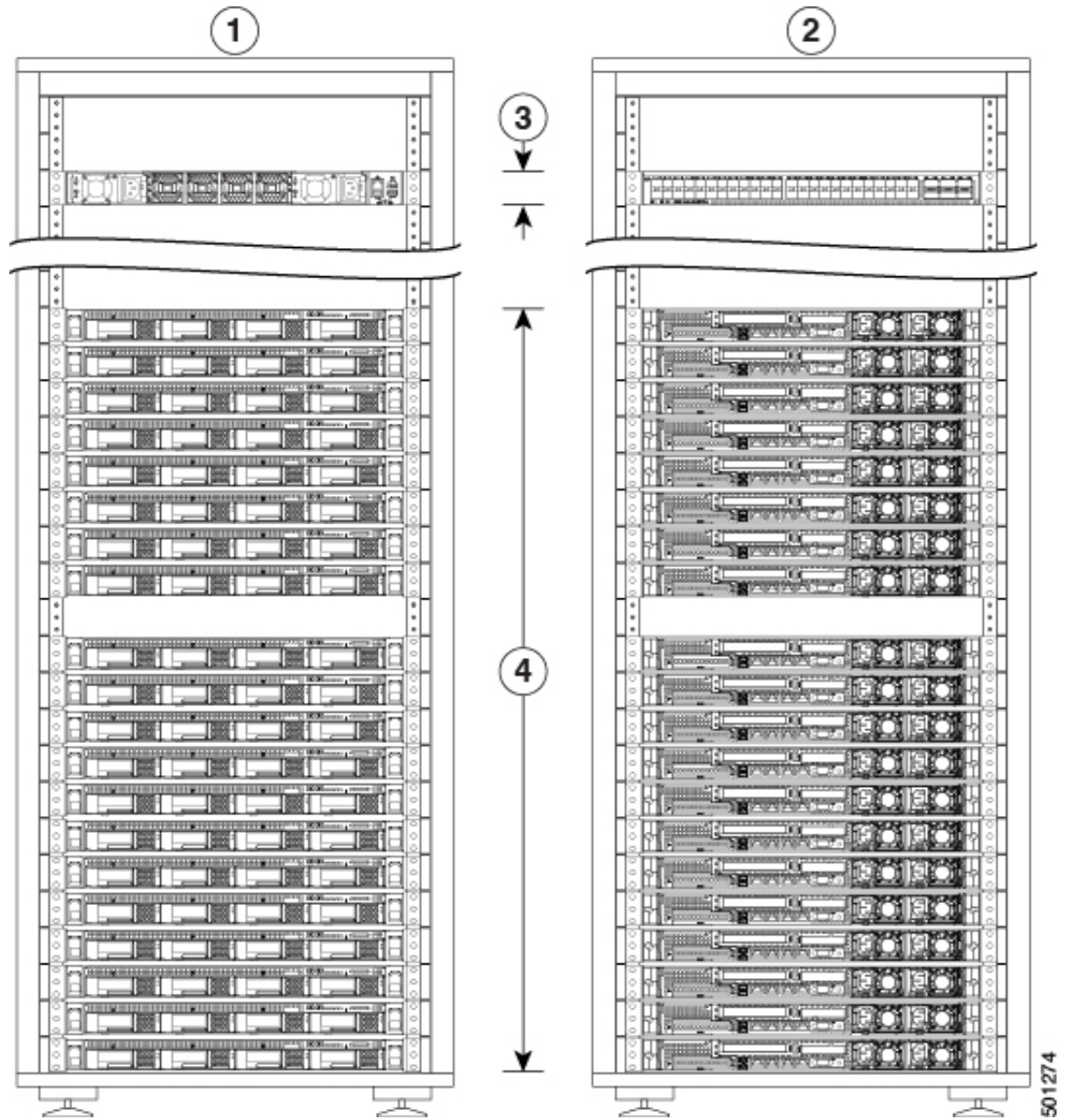
**Figure 2: C1-Tetration Dual Rack—Rack 1 Front and Rear**



|   |   |   |                       |
|---|---|---|-----------------------|
| 1 | Front (cold aisle view)                   | 2 | Rear (hot aisle view) |
| 3 | One spine switch (RU 42)                  | 4 | Leaf 1 switch (RU 40) |
| 5 | 16 compute servers (RU 1 to 4 and 6 to 9) | 6 | —                     |

The following figure shows the front and rear of rack 2 of the C1-Tetration dual rack.

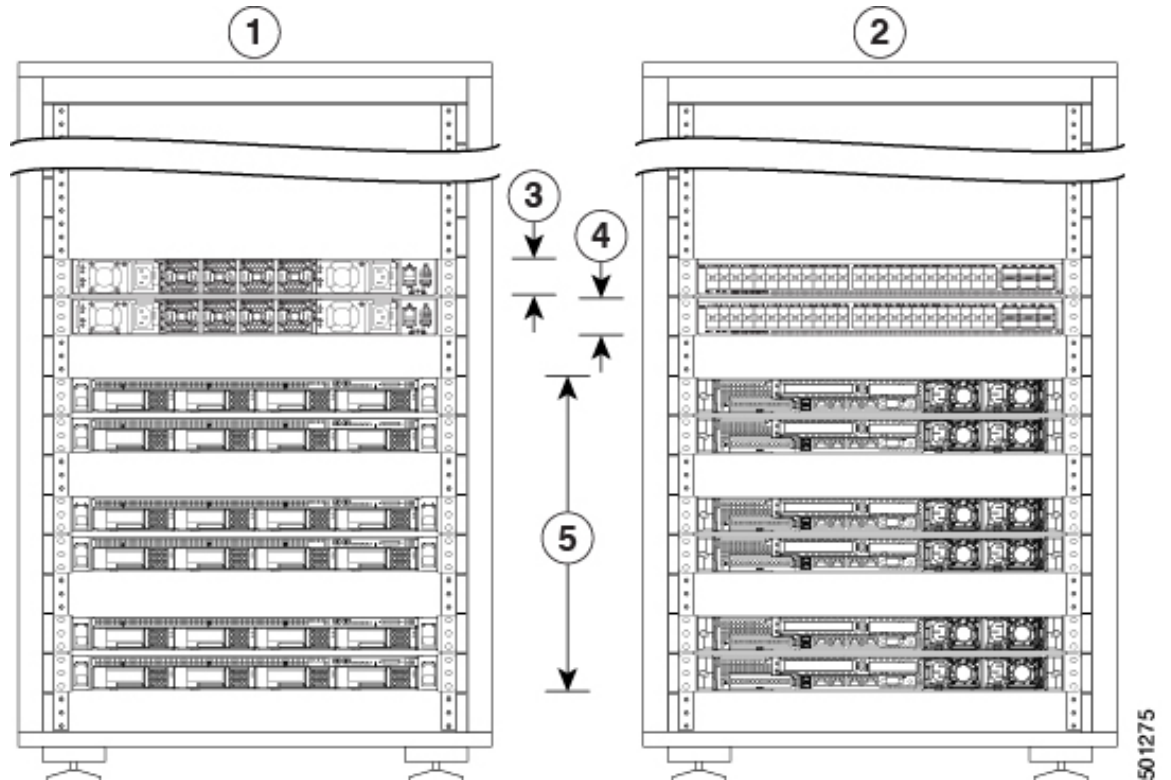
Figure 3: C1-Tetration Dual Rack— Rack 2 Front and Rear



|   |  |
|---|--|
| <p><b>1</b> Front (cold aisle view)</p> | <p><b>2</b> Rear (hot aisle view)</p>  |
| <p><b>3</b> Leaf 2 switch (RU 40)</p>   | <p><b>4</b> Eight serving servers (RU 14 to 21) and 12 base servers (RU 1 to 12)</p> |

The following figure shows the front and rear of the C1-Tetration-M.

Figure 4: C1-Tetration-M Front and Rear



501275

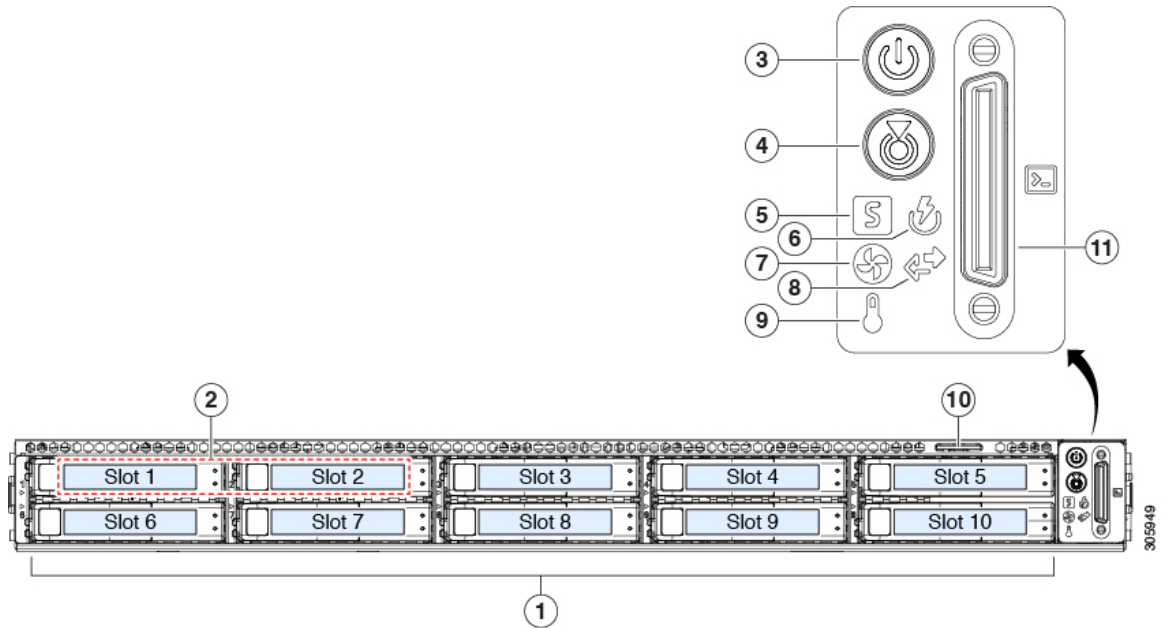
|   |   |   |                       |
|---|---|---|-----------------------|
| 1 | Front (cold aisle view)                         | 2 | Rear (hot aisle view) |
| 3 | Leaf 1 switch (RU 12)                           | 4 | Leaf 2 switch (RU 11) |
| 5 | Six universal servers (RU 2, 3, 5, 6, 8, and 9) |   | —                     |

## Cisco UCS C220 M5 Server (SFF Drives) Front Panel

The following figure shows the front panel of the UCS C220 M5 server with small form-factor (SFF) drives. See [Cisco UCS C220 M5 Server Installation and Service Guide](#) for more information.



Figure 5: Cisco UCS C220 M5 Server (SFF Drives) Front Panel



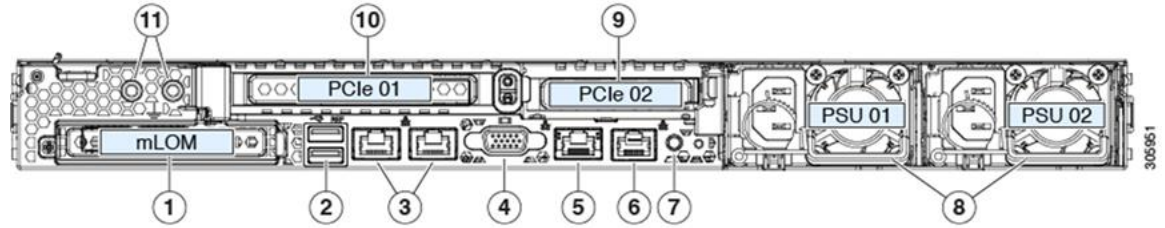
|  |   |
|--|---|
| <b>1</b> Drive bays 1 to 10<br>Support for SAS/SATA HDDs and SSDs  | <b>2</b> <ul style="list-style-type: none"> <li>• Drive bays 1 and 2 support NVMe PCIe SSDs (model UCSC-220-M5SX).</li> <li>• Drive bays 1 to 10 support <i>only</i> NVMe PCIe SSDs (model UCSC-220-M5SN).</li> </ul> |
| <b>3</b> Power button/power status LED   | <b>4</b> Unit identification button/LED   |
| <b>5</b> System status LED   | <b>6</b> Power supply status LED  |
| <b>7</b> Fan status LED  | <b>8</b> Network link activity LED  |
| <b>9</b> Temperature status LED  | <b>10</b> Pullout asset card  |
| <b>11</b> KVM connector<br>Used with a KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB connectors. | —   |

## Cisco UCS C220 M5 Server Rear Panel

The following figure shows the rear panel of the UCS C220 M5 Server.

See [Cisco UCS C220 M5 Server Installation and Service Guide](#) for more information.

Figure 6: Cisco UCS C220 M5 Server Rear Panel



|    |  |    |                                       |
|----|--|----|---------------------------------------|
| 1  | Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)   | 2  | Two USB 3.0 ports                     |
| 3  | Dual 1-Gb/10-Gb Ethernet ports (referred to as LAN1 and LAN2, or LOM port 1 and LOM port 2)<br><br>The dual LAN ports can support 1 Gbps and 10 Gbps depending on the link partner capability. | 4  | VGA video port (DB-15 connector)      |
| 5  | 1-Gb Ethernet dedicated management port  | 6  | Serial port (RJ-45 connector)         |
| 7  | Rear unit identification button/LED  | 8  | Two power supplies (redundant as 1+1) |
| 9  | PCIe riser 2/slot 2 (x16 lane)<br><br>Includes PCIe cable connectors for front-loading NVMe SSDs (x8 lane)   | 10 | PCIe riser 1/slot 1 (x16 lane)        |
| 11 | Threaded holes for dual-hole grounding lug   |    | —                                     |

