



Cisco Unified Communications Manager (UCM) Cloud

Infrastructure as a Service (IaaS) Application Service Catalog

Version 1.0

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Overview

This document is to be used as a guide to determine the capacity requirements for Cisco UCM Cloud IaaS to allow for ordering the correct quantity of infrastructure blocks (1 vCPU, 4GB memory, and 100GB storage).

Responsibilities

As noted in the Service Description for Infrastructure as a Service for Cisco UCM Cloud Applications, the Partner is responsible for the following related to all applications deployed on Cisco UCM Cloud IaaS

- Provide and maintain all Application licensing, interoperability, configuration, and management
- Ensure the compatibility of any Application(s) with the UCM Cloud
- Determine the capacity requirements for all Applications
- Perform Application release management, including compatibility with the UCM Cloud
- Installation of anti-virus and intrusion protection software on all Microsoft Windows Servers
- Ensure Application IP Address space is taken from Partner-provided block

Sizing Examples

In order to determine the quantity of infrastructure blocks that need to be ordered

1. Add together the infrastructure resources needed (vCPU, Memory (GB), Storage (GB)) for all the applications to be deployed in a data center.
2. Divide each by the related infrastructure resource that is included in a single infrastructure block (1 vCPU, 4GB memory, and 100GB storage) to get the quotient and round up that number.
3. The number of infrastructure blocks to be ordered is equal to the largest quotient rounded up.
4. For redundancy double the quantity of infrastructure blocks that are calculated.

Table 1: Sizing Examples

Product/Vendor	vCPU	Memory (GB)	Storage (GB)	Comment
Product A	1	3	80	
Product B	2	10	146	
Product C	3	15	250	

Sizing Calculation Example: Single application without and with redundancy

Product A

- 1 vCPU required / 1vCPU per infrastructure block = 1
- 3GB Memory / 4GB Memory per infrastructure block = 1

- 80GB Storage / 100GB Storage per infrastructure block = .8 rounded up to 1
- Largest rounded up quotient is 1
- One (1) infrastructure block needs to be purchased for non-redundant deployment
- Two (2) infrastructure blocks need to be purchased for redundant deployment

Product B

- 2 vCPU required / 1vCPU per infrastructure block = 2
- 10GB Memory / 4GB Memory per infrastructure block = 2.5 rounded up to 3
- 146GB Storage / 100GB Storage per infrastructure block = 1.46 rounded up to 2
- Largest rounded up quotient is 3
- Three (3) infrastructure blocks need to be purchased for non-redundant deployment
- Six (6) infrastructure blocks need to be purchased for redundant deployment

Product C

- 4 vCPU required / 1vCPU per infrastructure block = 4
- 20GB Memory / 4GB Memory per infrastructure block = 5
- 250GB Storage / 100GB Storage per infrastructure block = 2.5 rounded up to 3
- Largest rounded up quotient is 5
- Five (5) infrastructure blocks need to be purchased for non-redundant deployment
- Ten (10) infrastructure blocks need to be purchased for redundant deployment

Sizing Calculation Example: Multiple applications without and with redundancy

Products A, B, and C

- 6 vCPU required / 1vCPU per infrastructure block = 6
- 28GB Memory / 4GB Memory per infrastructure block = 7
- 476GB Storage / 100GB Storage per infrastructure block = 4.76 rounded up to 5
- Largest rounded up quotient is 7
- Seven (7) infrastructure blocks need to be purchased for non-redundant deployment
- Fourteen (14) infrastructure blocks need to be purchased for redundant deployment

Application List

Applications listed in the table below are included for sizing purposes only and there are no guarantees of compatibility. The sizing listed is the requirement for deployment in a single data center.

Table 2: Cisco Applications

Cisco UCM Cloud IaaS Application Service Catalog

Product/Vendor	vCPU	Memory (GB)	Storage (GB)	Comment
UCCX 100 Agent	2	10	146	Storage is 1 x 146GB
UCCX 400 Agent	4	20	292	Storage is 2 x 146GB

For any application that is not included in the table above please contact ask-ucm-cloud-pdm@cisco.com to discuss the sizing requirements.

Document history

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