QuickSpecs

Overview

HPE SimpliVity 380 Gen10

HPE SimpliVity 380, now available on HPE ProLiant DL380 Gen10 Servers, is a compact, scalable 2U rack-mounted building block that delivers server, storage, and storage networking services. Adaptable for diverse virtualized workloads, the secure 2U HPE ProLiant DL380 Gen10 delivers world-class performance with the right balance of expandability and scalability. It also provides a complete set of advanced functionality that enables dramatic improvements to the efficiency, management, protection, and performance—at a fraction of the cost and complexity of today's traditional infrastructure stack.

What's New

- Now available on HPE DL380 Gen10 Servers
- Intel® Xeon® Scalable Processors
- All Flash Storage Kits
- Extra Small through Large Storage Capacity Points
- Support for Single Socket Configurations
- GPU support

Overview

Scalable and Configurable

- Expandable in 1 node increments up to 32 total nodes*
- Processor - Choice of Intel® Xeon® Scalable Processors
- Memory - 144GB to 1536GB (Per Node)
- Network - 10Gb, 1Gb
- Power – Redundant
- Virtualization Software and Licensing
- All in a compact 2U form factor

NOTE: It is strongly recommended that an HPE SimpliVity 380 Gen10 cluster have a minimum of two nodes to realize the full benefit of the high availability hyperconverged solution.
*Single cluster support up to 8 nodes, single federation support up to 32 nodes.

Software Features

- VMware vSphere
- HPE SimpliVity management plugin for VMware vCenter

Hardware Availability Features

- Cluster expansion without downtime
- Hot-pluggable SSD
- Redundant power supplies
- Integrated storage controller with battery-backed cache
- HPE ProLiant Integrated Lights-Out Advanced (iLO) 5 Remote Management

Services

- HPE Pointnext full suite of support offerings (Foundation Care, Proactive Care and Datacenter Care).
- Remote support technology to provide 24x7 secure remote support

NOTE: For the best support experience, HPE Pointnext Installation Services and 24x7x365 support recommended.

HPE SimpliVity 380 Gen10 Gen10 At-a-Glance	
Node Size	2U
Processors	2x Intel® Xeon® Scalable Processors 8 to 22 cores selectable, 1 or 2CPU options
Memory	144GB to 1536GB per node selectable
Storage	Three selectable configurations of flash storage Extra Small-5 x 960GB SSD Kit Small - 5 x 1.92TB SSD Kit Medium-9x 1.92TB SSD Kit Large- 12 x 1.92TB SSD Kit
Network Ports	Ethernet 1Gb LOM embedded, Choice of 2 x10Gb FLOM
Power Supplies	HP 800W FS Plat Ht Plg Pwr Supply Kit HP 800W FS -48VDC Ht Plg Pwr Supply Kit HP 800W FS Ti Ht Plg Pwr Supply Kit HP 800W FS Univrsal Ht Plg Pwr Spply Kit

Overview

	HPE 1600W FS Plat Ht Plg LH Pwr Sply Kit HP 800W FS Plat Ht Plg Pwr Supply Kit
Hardware Warranty[1]	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response
Hardware Support	3-year HPE SimpliVity 380 Gen10 solution support (required)

NOTE[1]: Warranty for SSDs is subject to maximum usage limitations. Maximum usage limit is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for replacement.

Features and Benefits

Fully integrated system

Combines x86 resources, storage, and storage networking in a single hyperconverged system. Simplifies management and delivers great cost efficiency and agility with increased visibility and control.

Peak and predictable performance

The all-flash solution provides predictable and linear performance at near‑wire speeds with reduced latency. Hardware-assisted inline deduplication, compression, and optimization helps minimize I/O and network traffic, improving performance while delivering great storage and bandwidth efficiency.

Scale in and scale out

Easily expand or shrink configurations as your needs change. Each node supports a large number of fully protected virtual machines (VMs), with the networked collection of nodes at both local and remote sites managed as a single entity.

VM centricity and mobility

Enables all actions, policies, and management at the VM level. Global unified management and integration with established administrative systems streamline operations and improve IT agility.

Dramatic TCO reduction

Drastically reduce the need to purchase multiple discrete components, optimize storage capacity with guaranteed 10:1 data efficiency, and prevent over-provisioning for performance and capacity with on‑demand expansion.

Software Overview

Pre-integrated software
- HPE SimpliVity Startup Wizard

Virtualization Platform Software and Licenses

NOTE: The HPE SimpliVity 380 Gen10 supports ESXi 6.0 and 6.5.

- VMware vSphere installation media is required to complete the installation and is available from HPE when ordering the HPE SimpliVity 380 Gen10
- Valid licenses for the following VMware software components are required and is available from HPE when ordering the HPE SimpliVity 380 Gen10
    - (1or 2) VMware vSphere licenses per node depending on CPU count

Overview

- (1) VMware vCenter license

NOTE: HPE SimpliVity 380 Gen10 for VMware vSphere requires valid VMware vSphere, and vCenter licenses. VMware licenses can only be removed from the order if it is confirmed that the end-customer has a valid licenses in place (Enterprise License Agreement (ELA), vCloud Air Partner or unused Enterprise Purchasing Program tokens).

Purchasing VMware licenses from Hewlett Packard Enterprise allows Hewlett Packard Enterprise to be the single point of contact for the entire solution inclusive of the virtualization software and is recommended.

Management
- VMware vCenter
- HPE SimpliVity management plugin for VMware vCenter

NOTE: The HPE SimpliVity 380 Gen10 supports VMware vCenter 6.0 and 6.5.

How to Order

Overview

Step 1: Start with the base node
Step 2: Select the hardware options to add to the base node: processors, memory, storage, networking, power, HW options
Step 3: Auto Add of SW that correlates to node configuration
Step 3: Select the software options to add to the node: VMware vSphere
Step 4: Select service and support

Step 1: Base Node

Action	Description	Part #
Select the base node	HPE SimpliVity 380 Gen10 Node	Q8D81A

Step 2: Hardware Configuration

Processors

CPU Configurations

Action	Primary CPU SKU	Secondary CPU SKU	Description	Details
Select CPUs for the node **In the case of Single CPU only L21 SKU will be included by the configurator.** **In the case of dual CPU** **Both the L21 and the B21 SKU will be included by the configurator**	826846-L21	826846-B21	HPE DL380 Gen10 4110 Xeon-S Kit	8C 2.1GHz 85W
	826848-L21	826848-B21	HPE DL380 Gen10 4108 Xeon-S Kit	8C 1.8GHz 85W
	826850-L21	826850-B21	HPE DL380 Gen10 4114 Xeon-S Kit	10C 2.2GHz 85W
	826852-L21	826852-B21	HPE DL380 Gen10 4116 Xeon-S Kit	12C 2.1GHz 85W
	826854-L21	826854-B21	HPE DL380 Gen10 5118 Xeon-G Kit	12C 2.3GHz 105W
	826856-L21	826856-B21	HPE DL380 Gen10 5120 Xeon-G Kit	14C 2.2GHz 105W
	826862-L21	826862-B21	HPE DL380 Gen10 6126 Xeon-G Kit	12C 2.6GHz 125W
	826866-L21	826866-B21	HPE DL380 Gen10 6130 Xeon-G Kit	16C 2.1GHz 125W
	826870-L21	826870-B21	HPE DL380 Gen10 6132 Xeon-G Kit	14C 2.6GHz 140W
	826878-L21	826878-B21	HPE DL380 Gen10 6140 Xeon-G Kit	18C 2.3GHz 140W
	826884-L21	826884-B21	HPE DL380 Gen10 6150 Xeon-G Kit	18C 2.7GHz 165W
	826886-L21	826886-B21	HPE DL380 Gen10 6152 Xeon-G Kit	22C 2.1GHz 140W
	826888-L21	826888-B21	HPE DL380 Gen10 6154 Xeon-G Kit	18C 3.0GHz 200W
	874760-L21	874760-B21	HPE DL380 Gen10 6142M Xeon-G Kit	16C 2.6GHz 150W
	876562-L21	876562-B21	HPE DL380 Gen10 5115 Xeon-G Kit	10C 2.4GHz 85W

How to Order

	826886-L21	826886-B21	HPE DL380 Gen10 6152 Xeon-G Kit	22C 2.1GHz 140W

Memory

	Details	**Description**	**SKU**
Select a memory capacity for the node **The appropriate memory and quantity will be included by the configurator** **1 Kit required per CPU**	6x 8GB AND 6x 16GB RDIMMs	HPE SimpliVity 144G 12 DIMM FIO Kit	Q8D82A
	12x 16GB RDIMMs	HPE SimpliVity 192G 12 DIMM FIO Kit	Q8D83A
	6x 32GB RDIMMs	HPE SimpliVity 192G 6 DIMM FIO Kit	Q8D84A
	6x 32GB AND 6x 8GB RDIMMs	HPE SimpliVity 240G 12 DIMM FIO Kit	Q8D85A
	6x 32GB AND 6x 16GB RDIMMs	HPE SimpliVity 288G 12 DIMM FIO Kit	Q8D86A
	12x 32GB RDIMMs	HPE SimpliVity 384G 12 DIMM FIO Kit	Q8D87A
	6x 64GB LRDIMMs	HPE SimpliVity 384G 6 DIMM FIO Kit	Q8D88A
	12x 64GB LRDIMMs	HPE SimpliVity 768G 12 DIMM FIO Kit	Q8D89A

For more information go to: **http://www.hpe.com/docs/memory-population-rules**

Storage

Effective capacity varies by environment, and is a function of realized deduplication and compression rates. The capacities in this table offer a conservative range based on compression and deduplication rates found in standard, primary storage use cases.

Action	Effective Capacity	Description	Part #
Select one of two storage configurations for the node	3-6TB	5 x 960GB SSDs	Q8D90A
	6–12 TB	5 x 1.92TB SSDs	Q8D91A
	12-25TB	9 x 1.92TB SSDs	Q8D92A
	20-40TB	12 x 1.92TB SSDs	Q8D93A

Networking

Action	Description	Part #
A 10GbE FlexLOM is required. This is in addition to the standard 4 port 1GbE LOM included in the base node	HPE FlexFabric 10Gb 2P 534FLR-SFP+ Adptr	700751-B21
	HPE FlexFabric 10Gb 2P 533FLR-T Adptr	700759-B21

PCI Adapter

How to Order

Action	System Max	Description	Part #
Additional PCI Adapaters can be added in the case of dual socket with secondary riser.	3	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	3	HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
	3	HPe Ethernet 10Gb 2P 530SFP+ Adptr	652503-B21
	3	HPE Ethernet 10Gb 2P 530T Adptr	656596-B21
	3	HPE Eth 10/25Gb 2p 640SFP28 Adptr	817753-B21
	1	HPE Eth 4x25Gb 1p 620SFP28 Adptr	817762-B21

Optional Fibre Channel HBA cards

Action	System Max	Description	Part #
Optional FC HBAs may be added if slots are available,	3	HPE SN1100Q 16Gb 2p FC HBA	P9D94A
	3	HPE SN1600Q 32Gb 2p FC HBA	P9M76A

Optional Video cards

Action	System Max	Description	Part #
Optional Graphic Accelerator(1) may be added in the case of dual CPU with secondary riser	1	NVIDIA Tesla M10 Quad GPU Module	Q0J62A

Power Supplies

Action	Description	Part #
Two power supplies are required.	HP 800W FS Plat Ht Plg Pwr Supply Kit	865414-B21
	HP 800W FS -48VDC Ht Plg Pwr Supply Kit	865428-B21
	HP 800W FS Ti Ht Plg Pwr Supply Kit	865434-B21
	HP 800W FS Univrsal Ht Plg Pwr Spply Kit	865438-B21
	HPE 1600W FS Plat Ht Plg LH Pwr Sply Kit	830272-B21

NOTE: The power supply requirement can vary based configuration and environment. Please refer to HPE Power Advisor for proper power sizing

How to Order

Action	Description	Part #
Additional hardware options are available	HPE X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
	HPE X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
	HPE X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
	HPE X240 10G SFP+ SFP+ 7m DAC Cable	JC784C
	HPE 1m B-series Active Copper SFP+ Cable	AP818A
	HPE 3m B-series Active Copper SFP+ Cable	AP819A
	HPE 5m B-series Active Copper SFP+ Cable	AP820A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
	HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver	455886-B21
	HPE BladeSystem c-Class 1Gb SFP+ SX Transceiver	453151-B21
	HPE 100Gb QSFP28 MPO SR4 100m XCVR	845966-B21
	HPE 0.9m, Blue, Cat6 STP Data Cable	AF594A
	HPE 3m, Blue, Cat6 STP Data Cable	AF595A
	HPE 10m, Blue, Cat6 STP Data Cable	AF596A
	HPE Ethernet 4ft CAT5 RJ45 M/M Cable	C7533A
	HPE Ethernet 7ft CAT5e RJ45 M/M Cable	C7535A
	HPE Ethernet 14ft CAT5e RJ45 M/M Cable	C7536A

Action	Description	Part #
IT Rack Enclosures – all G2 Advanced and G2 Enterprise models are compatible.	HPE 42U 600x1075mm Advanced G2 Kitted Pallet Rack	P9K07A
	HPE 42U 600x1075mm Advanced G2 Kitted Shock Rack	P9K08A
	HPE 42U 600x1200mm Advanced G2 Kitted Pallet Rack	P9K09A
	HPE 42U 600x1200mm Advanced G2 Kitted Shock Rack	P9K10A
	HPE 42U 600x1075mm Enterprise G2 Pallet Rack	P9K37A
	HPE 42U 600x1075mm Enterprise G2 Shock Rack	P9K38A
	HPE 42U 600x1200mm Enterprise G2 Pallet Rack	P9K39A
	HPE 42U 600x1200mm Enterprise G2 Shock Rack	P9K40A
NOTE: For more information on HPE rack enclosures, review the QuickSpecs at: **https://www.hpe.com/us/en/product-catalog/servers/server-racks.hits-12.html**.		
KVM Switches and Consoles – choose keyboard/video/ mouse switch options supporting remote and/or local access – add a console to complete your rack-based solution.	HPE 0x1x8 G3 KVM Console Switch	AF651A
	HPE 0x2x16 G3 KVM Console Switch	AF652A
	1x1Ex8 KVM IP Console Switch G2 with Virtual Media and CAC	AF620A
	2x1Ex16 KVM IP Console Switch G2 with Virtual Media and CAC	AF621A
	4x1Ex32 KVM IP Console Switch G2 with Virtual Media and CAC	AF622A
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
For more information on KVM switches, review the QuickSpecs at: **https://www.hpe.com/us/en/product-catalog/servers/rack-console-switches.hits-12.html.** For more information on KVM consoles, review the QuickSpecs at: **https://www.hpe.com/us/en/product-catalog/servers/server-console-kits.hits-12.html**.		
	HPE G2 Basic 3.6kVA/IEC C20 Detachable 16A/100-240V Outlets (20) C13 (2) C19/Vertical WW PDU	P9Q38A

How to Order

Power Distribution Units (PDU) – add a 2nd PDU to create a redundant power configuration	HPE G2 Metered 3.6kVA/IEC C20 Detachable 16A/100-240V Outlets (12) C13/1U Horizontal WW PDU	P9R50A
	HPE G2 Metered/Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13, (4) C19/Vertical NA/JP PDU	P9S15A
	HPE G2 Metered/Switched 7.3kVA/60309 3-Wire 32A/230V Outlets (20) C13, (4) C19/Vertical INTL PDU	P9S18A
For more information on HPE PDU models and accessories, review the quickspec at: **https://www.hpe.com/us/en/product-catalog/servers/power-distribution-units.hits-12.html.**		
Uninterruptible Power Supply (UPS) – add a reliable UPS to provide protection against power loss.	HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
	HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System J2R04A	J2R04A
	HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
	HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
For more information on UPS products, review the QuickSpecs at: **https://www.hpe.com/us/en/product-catalog/servers/uninterruptible-power-system.hits-12.html.**		

Additional Server Options

Action	Description	Part #
Additional hardware options are available	HPE DL380 Gen10 Sys Insight Dsply Kit	826703-B21
	HPE DL3xx Gen10 Rear Serial Cable Kit	873770-B21
	HP 2U SFF BB Rail Kit	720863-B21
	HP 2U CMA for BB Rail Kit	720865-B21
	HP 2U SFF Easy Install Rail Kit	733660-B21

HPE OmniStack Software

Action	Description	Part #
Based on the hardware configurations in step 1 & 2 the appropriate software will be included by the configurator. The software is determined by CPU and storage configuration and is required	HPE OmniStack 8-14c 1P Extra Small SW	Q8A57A
	HPE OmniStack 8-14c 2P Extra Small SW	Q8A58A
	HPE OmniStack 8-14c 1P Small SW	Q8A59A
	HPE OmniStack 8-14c 2P Small SW	Q8A60A
	HPE OmniStack 16-22c 1P Extra Small SW	Q8A65A
	HPE OmniStack 16-22c 2P Extra Small SW	Q8A66A
	HPE OmniStack 16-22c 1P Small SW	Q8A67A
	HPE OmniStack 16-22c 2P Small SW	Q8A68A

VMware Software

vSphere

NOTE: The HPE SimpliVity 380 Gen10 supports ESXi 6.0 and 6.5.

How to Order

Action	Description	Part #
A valid VMware vSphere license is required for each CPU to complete deployment. If an order is placed without VMware licenses, the user agrees to supply the necessary license.	VMw vSphere Std 1P 3yr E-LTU	BD711AAE
	VMw vSphere EntPlus 1P 3yr SW	BD715A
	VMw vSphere EntPlus 1P 3yr E-LTU	BD715AAE
	VMware vSphere ROBO Std 25VM 3yr E-LTU	P9A82AAE
	VMware vSphere ROBO Adv 25VM 3yr E-LTU	P9A85AAE
	VMw vSphere Std 1P 5yr SW	BD512A
	VMw vSphere Std 1P 5yr E-LTU	BD512AAE
	VMw vSphere EntPlus 1P 5yr SW	BD514A
	VMw vSphere EntPlus 1P 5yr E-LTU	BD514AAE

NOTE: HPE SimpliVity 380 Gen10 for VMware vSphere requires valid VMware vSphere, and vCenter licenses. VMware licenses can only be removed from the order if it is confirmed that the end-customer has a valid licenses in place (Enterprise License Agreement (ELA), vCloud Air Partner or unused Enterprise Purchasing Program tokens).

Purchasing VMware licenses from Hewlett Packard Enterprise allows Hewlett Packard Enterprise to be the single point of contact for the entire solution inclusive of the virtualization software and is recommended. When the VMware license is not included on the order the solution level support experience is impacted.

vCenter

Action	Part #	Description
Optional vCenter License	P9U41AAE	VMw vCenter Server Std for vSph 3y E-LTU
	P9U42AAE	VMw vCenter Server Std for vSph 5y E-LTU

HPE Integrated Lights Out Advanced Software (iLO Advanced)

Action	Description	Part #
The HPE iLO Advanced license is required	HPE iLO Adv 1 Server License with 3-year 24x7 Technical Support	BD505A

Step 4: Service and Support

Services for customers purchasing from Hewlett Packard Enterprise or an enterprise reseller are quoted using Hewlett Packard Enterprise order configuration tools.

Technology Services for increased uptime, productivity and ROI
At HPE, our priority is to maximize your workload uptime, avoiding problems before they occur. As the experts for the HPE SimpliVity 380 Gen10, HPE Pointnext support will be your 24x7x 365 single point-of-contact for all of your support needs with HPE Pointnext Proactive Care Support. This means you can spend more time developing apps and adding value to the business rather than maintaining your infrastructure.

If there is a potential risk in your infrastructure, our remote support technology will proactively notify HPE and initiate the resolution process. If you are experiencing any issue with your solution, HPE Pointnext Proactive Care will provide you immediate access to our team of solution experts, whose first priority is to ensure your workloads are up and running, and then immediately start diagnosing the failure.

How to Order

HPE Pointnext offers its full portfolio of support services. This includes Foundation Care, Proactive Care, Proactive Care Advanced and Datacenter Care. Flexible Capacity and Operational Support Services are also available.

HPE SimpliVity 380 Gen10 is supported by the power of HPE, in 30+ different languages, with local presence across 140 countries.

Please consult your HPE Sales Representative for any additional questions and support options.

Installation and Startup Services

HPE Pointnext provides a full set of installation and startup services to meet your unique requirements.

Action	Part #	Description
hardware install service	HA114A1#5LY	HPE SVT 380 Hardware Install service
remote software install service	HA124A1#5LZ	HPE SVT 380 Remote software install service
onsite software install service	HA124A1#5MF	HPE SVT 380 Onsite Software install service
update your firmware and SVT/VMware software	HA124A1#5MK	HPE SVT 380 Software and Firmware update service.

Please contact your HPE Sales Representative for more information.

NOTE: For more information on Technology Services please visit: **https://www.hpe.com/us/en/services.html**

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Pointnext and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

This hardware warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge.

Technical Specifications

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Physical Dimensions
2U form factor: 3.44 x 26.75 x 17.54 in (8.73 x 67.94 x 44.54 cm)

Summary of Changes

Date	Version History	Action	Description of Change
06-Nov-2017	From Version 2 to 3	Changed	Changes made to the document
02-Oct-2017	From Version 1 to 2	Changed	Changes made to the entire document
25-Sept-2017	Version 1	New	Initial version

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