

Estudo Técnico Preliminar

1. Informações Básicas

Número do processo:

2. Descrição da necessidade

A presente contratação visa a modernização do parque tecnológico do Senado Federal/Prodasen, tendo em vista que vários equipamentos servidores já estão fora de linha, encarecendo ou impossibilitando a contratação de serviços de manutenção preventiva e/ou corretiva.

A não aquisição destes novos equipamentos pode levar ao comprometimento de serviços que são atualmente fornecidos através da execução de soluções de software em hardware dedicado e cuja migração para a solução de hiperconvergência é atualmente inviável, em função ou do uso de componentes específicos - caso da plataforma de backup -, ou por não haver recursos disponíveis na solução HCI para a migração deste tipo de carga - como, por exemplo, das soluções de Business Intelligence e banco de dados. Ressalta-se que os equipamentos em uso atualmente já estão "fora de linha" já a algum tempo, o que dificulta ou impossibilita a renovação dos contratos de manutenção.

Considera-se como prazo razoável para a entrega dos equipamentos adquiridos por este processo licitatório o 3o. trimestre de 2023.

3. Área requisitante

Área Requisitante	Responsável
SESSR/COINTI/PRDSTI/DGER	André Junqueira Sampaio
SESDB/COINTI/PRDSTI/DGER	Wagner Costa Guimaraes
SESIA/COINTI/PRDSTI/DGER	Igor de Andrade Viana
SEPRTI/COINTI/PRDSTI/DGER	Fabricio Santos Cardoso

4. Necessidades de Negócio

A aquisição de servidores físicos visa atender a continuidade da prestação de serviços de banco de dados, backup e diretório, utilizados como infraestrutura por outras diversas áreas do Prodasen para disponibilizar os sistemas de informação gerenciais e legislativos utilizados por todo o Senado Federal.

5. Necessidades Tecnológicas

Dentre alguns dos serviços providos pelo Prodasen, destacam-se serviço de diretório, banco de dados e backup. Tais serviços, por necessitarem ou de independência em relação à plataforma de virtualização, por exigirem hardware dedicado para acesso tanto à infraestrutura computacional quanto à estrutura de armazenamento, ou por serem mais voltados ao consumo de memória em relação a CPU e/ou armazenamento, são mais adequadas a serem executadas em servidores físicos dedicados.



Desta forma, apesar de o Senado Federal dispor de solução de hiperconvergência bastante robusta, não é adequada a todos os tipos de carga de trabalho, levando à necessidade de aquisição de servidores dedicados, onde pode-se configurar o hardware de acordo com as necessidades específicas de cada serviço.

6. Demais requisitos necessários e suficientes à escolha da solução de TIC

Esta aquisição busca substituir os equipamentos já em fim de vida útil e, para os quais, a nova contratação de serviço de manutenção é, por características do mercado, impossível ou bastante onerosa.

Além disso, diversos serviços atualmente em produção ainda utilizam servidores com armazenamento em disco rotativo, o que impacta seu desempenho. A aquisição busca modernizar o parque computacional, utilizando apenas armazenamento em dispositivos de estado sólido, considerados, atualmente, o estado da arte para tal. Isso reflete, para o usuário final, em softwares e sistemas mais rápidos e, por serem equipamentos novos, com peças de reposição ainda à disposição, em maior confiabilidade.

7. Estimativa da demanda - quantidade de bens e serviços

Considerando as necessidades levantadas de julho a novembro de 2022, os seguintes equipamentos são necessários para expansão e/ou substituição de equipamentos atuais:

Serviço de Banco de Dados:

5 servidores com a configuração destacada abaixo:

- 2 processadores com, no máximo, 16 cores no total;
- Índice SPECint_rate2017 (baseline) auditado de, no mínimo, 125;
- 512GB de memória, com capacidade de expansão;
- 4 interfaces de rede 10 Gigabit;
- 4 interfaces Fibre Channel 8 Gbps;
- 1 interface de rede de 1 Gigabit, para gerência;
- 3 discos SSD com capacidade individual de 300GB ou superior.

Serviço de Suporte a Servidores de Rede

4 servidores com a configuração abaixo, para hospedarem o serviço de diretório (*Active Directory*):

- 2 processadores com 12 cores por CPU
- 64Gb de RAM
- 2 interfaces de rede 10Gb
- Índice SPECint_rate 2017 (baseline) de 150
- 1 interface de rede 1Gb para gerência
- Pelo menos 1Tb de armazenamento líquido, SAS, hotswap.

4 servidores com a seguinte configuração, para hospedagem do serviço de Correio Eletrônico:

- 2 processadores com 12 cores por CPU
- 192Gb de RAM
- 2 interfaces de rede 10Gb
- Índice SPECint_rate 2017 (baseline) de 150
- 1 interface de rede 1Gb para gerência
- Pelo menos 1Tb de armazenamento líquido, SAS, hotswap.

Serviço de Produção

Para os serviços de backup, são necessários 3 servidores com a seguinte configuração:

- 2 processadores com 12 cores cada



- 256Gb de memória 3200 MHz RDIMM
- 2 interfaces de rede 10Gb
- 3.840Gb de armazenamento líquido, RAID-5, SSD SATA Mixed use
- 2 interfaces Fibre Channel 8/16 Gb
- Interface de gerência dedicada

Já para os serviços de monitoramento de ativos de rede, são necessários dois servidores assim configurados:

- 2 processadores com pelo menos 6 cores cada
- 128Gb de memória 3200MHz RDIMM
- 2 interfaces de rede 10Gb
- 1.440Gb de armazenamento líquido, RAID-5, SSD SATA Mixed use
- Interface de gerência dedicada

Serviço de Suporte a Aplicações

Há, para o Serviço de Suporte a Aplicações, dois tipos de servidores necessários. O primeiro, descrito abaixo, é para dar suporte à aplicação Qlikview, utilizada, dentre outros usos, pelo portal **Siga Brasil**. Com esta configuração, serão necessárias 3 máquinas:

- 512Gb de memória RAM
- 2Tb de armazenamento líquido
- 2 processadores com pelo menos 24 núcleos
- 4 interfaces de rede de 10Gb

O segundo tipo de máquina será utilizado para situações de contingência, considerando duas unidades:

- 2 processadores com 12 cores por CPU
- 64Gb de RAM
- 2 interfaces de rede 10Gb
- Índice SPECint_rate 2017 (baseline) de 150
- 1 interface de rede 1Gb para gerência
- Pelo menos 1Tb de armazenamento líquido, SAS, hotswap.

8. Levantamento de soluções

Considerando os requisitos especificados, é possível agrupar as máquinas por configuração, e mantendo, dentre as configurações, itens padronizados, permitindo o intercâmbio de componentes entre os equipamentos.

Para atender as demandas atuais, pode-se considerar como suficientes 8,5Tb de RAM, 75Tb de armazenamento, e 512 núcleos de processamento, distribuídos entre as diversas máquinas solicitadas.

9. Análise comparativa de soluções

Como método de aquisição, pode-se considerar duas formas: aquisição de máquinas específicas para cada demanda; ou aquisição de máquinas com configuração similar e componentes intercambiáveis, de forma a adequar os equipamentos às evoluções dos serviços oferecidos pelo Prodasen. Deve-se considerar, também, que há a tendência de migração de alguns serviços para a estrutura hiperconvergente, cuja expansão encontra-se em avaliação no momento, e, portanto, os servidores adquiridos por meio deste processo poderão ser, no futuro, realocados para outras atividades.



10. Registro de soluções consideradas inviáveis

Considera-se inviável a migração das cargas de trabalho atualmente em execução em servidores físicos para a infraestrutura hiperconvergente. Outra alternativa considerada inviável é a contratação dos equipamentos com configurações específicas a cada demandante, uma vez que tal solução pode dificultar o uso da solução aqui contratada para a evolução ou migração dos componentes de software utilizados.

11. Análise comparativa de custos (TCO)

Em elaboração, em função de outros processos de aquisição estarem em andamento, como a contratação do cluster Oracle e a expansão da estrutura de hiperconvergência.

12. Descrição da solução de TIC a ser contratada

A solução ser contratada deverá considerar três tipos de servidores, aqui com configurações aqui denominadas "alta", "média" e "baixa", de acordo com a tabela abaixo:

Tipo de configuração	CPU	Memória	Interfaces de rede	Armazenamento
Alta	2x Intel Xeon Gold 5318Y ou de desempenho superior, com, no mínimo, 24 cores por CPU	Pelo menos 768Gb DDR4-2933 RDIMM 3200MT/s	4x 10/25GbE	Pelo menos 5 unidades de 960Gb SAS SS: uso misto, 12Gb/s, configuradas em RAID
Média	2x Intel Xeon Gold 5315Y ou de desempenho superior, com 16 cores por CPU	Pelo menos 512Gb DDR4-2933 RDIMM 3200MT/s	4x 10/25GbE	Pelo menos 3 unidades de 960Gb SAS SS: uso misto, 12Gb/s, configuradas em RAID
Baixa	2x Intel Xeon Gold 5315Y ou de desempenho superior, com 16 cores por CPU	Pelo menos 128Gb DDR4-2933 RDIMM 3200MT/s	2x 10/25GbE	Pelo menos 3 unidades de 960Gb SAS SS: uso misto, 12Gb/s, configuradas em RAID

Características comuns:

- Instalação em rack padrão 19";
- Até 2U de altura;
- Discos hot-swap de 2,5";
- Fonte redundante (1+1) capaz de manter a máquina em seu desempenho plano em caso de falha de uma das fontes;
- Possuir gerência remota, incluindo aí terminal gráfico remoto, por interface de rede dedicada;
- Capacidade de expansão de memória RAM até 1Tb sem a necessidade de troca dos pentes já em uso;
- Todos as unidades de armazenamento e pentes de memória deverão ser do mesmo fabricante e possuir as mesmas especificações; e
- Garantia de 5 anos *on-site*, troca de componentes até o dia seguinte.

Além disso, deverão ser adquiridos 3 adaptadores HBA Fibre Channel 16/8 com duas portas cada, para serem instalados em qualquer um dos equipamentos adquiridos.

13. Estimativa de custo total da contratação

Valor (R\$): 6.344.672,73

A estimativa da solução foi feita através de pesquisa na Internet no site da Dell/Estados Unidos, que possui maior facilidade de elaboração de orçamentos do que a plataforma do site brasileiro, e, ao final, considerou-se, para câmbio, a taxa de fechamento do dia 30/11.



A tabela abaixo considera os detalhes de cada máquina, e a planilha completa encontra-se em anexo.

O valor total dos servidores, desconsiderando os adaptadores HBA Fibre Channel, em USD, foi de USD 1.183.240,16, e a cotação do dólar considerada, de R\$ 5,2941, conforme site do Banco Central.

Tipo de máquina	Unidade atendida	Quantidade	Preço cheio (USD)		Preço promocional (USD)		Memória (DDR4-2933 RDIMM 3200MT/s)	C
			Unitário	Total	Unitário	Total		
Tipo A - Maior	SESIA (QlikView)	4	80.660,71	322.642,84	50.731,63	202.926,52	768	
Tipo B - Média	SESDB e SERPTI (TSM)	8	57.713,69	461.709,52	36.299,08	290.392,64	512	
Tipo C - Menor	SESIA (Standby), SESSR (DC, Exchange), SERPTI (NMS)	12	33.240,65	398.887,80	20.326,33	243.915,96	128	

Para os adaptadores HBA, foi feito orçamento diretamente no site da Dell Brasil, com valor unitário de R\$ 26.827,00.

14. Justificativa técnica da escolha da solução

Considera-se necessário de aquisição de servidores de rack para a execução de cargas de trabalho independentes da solução de hiperconvergência a fim de garantir a independência destas à disponibilidade do cluster de virtualização. Tais cargas incluem monitoramento, backup, contingência para softwares críticos ou informações sobre a sua disponibilidade. Além disso, ferramentas de Business Intelligence e banco de dados, por suas características de uso de memória e armazenamento, são extremamente caras, em termos de uso e distribuição de recursos, para a execução em ambiente de virtualização de recursos computacionais.

15. Justificativa econômica da escolha da solução

A utilização dos recursos públicos - efetivamente, recursos oriundos da população brasileira, através de impostos e taxas -, deve-se pautar por soluções flexíveis e cujo investimento possa gerar retornos por um período de tempo considerável, considerando, aí, as limitações legais.

Assim, optou-se por adquirir três tipos diferentes de configurações de equipamentos, com componentes de características semelhantes, de forma a utilizá-los não apenas nas demandas iniciais previstas neste documento, mas também considerando a evolução das soluções prestadas pelo Prodasen as futuras necessidades de equipamentos com as características aqui previstas.

16. Benefícios a serem alcançados com a contratação

Com a aquisição de novos servidores, espera-se redução no custo dos contratos de manutenção, além de maior confiabilidade na prestação de serviços de Tecnologia de Informação às diversas áreas de negócio do Senado Federal.

17. Providências a serem Adotadas

Não há necessidade de adequações do ambiente do Senado Federal para a viabilização desta contratação.

18. Declaração de Viabilidade

Esta equipe de planejamento declara **viável** esta contratação.

18.1. Justificativa da Viabilidade

A solução apresentada neste Estudo Técnico Preliminar atende aos requisitos necessários para a substituição dos equipamentos atuais, garantindo a continuidade dos serviços em execução nos servidores que, por características próprias, não podem ser executados no ambiente de virtualização



19. Responsáveis

Para encaminhamento.

ROBSON PANIAGO DE MIRANDA

Analista legislativo



Lista de Anexos

Atenção: Apenas arquivos nos formatos ".pdf", ".txt", ".jpg", ".jpeg", ".gif" e ".png" enumerados abaixo são anexados diretamente a este documento.

- Anexo I - Orçamento Dell - Poweredge R550 - 3840Gb SAS líquido - 768Gb RAM - 2x Intel Xeon Gold 5318Y - SpecInt 313-baseline.jpeg (872.05 KB)
- Anexo II - Orçamento Dell - Poweredge R550 - 3840Gb SAS líquido - 768Gb RAM - 2x Intel Xeon Gold 5318Y - SpecInt 313-baseline.pdf (1.36 MB)
- Anexo III - Orçamento Dell - Poweredge R550 - 1920Gb SAS líquido - 512Gb RAM - 2x Intel Xeon Gold 5315Y - SpecInt 144.jpeg (786.26 KB)
- Anexo IV - Orçamento Dell - Poweredge R550 - 1920Gb SAS líquido - 512Gb RAM - 2x Intel Xeon Gold 5315Y - SpecInt 144.pdf (1.37 MB)
- Anexo V - Orçamento Dell - Poweredge R550 - 1920Gb SAS líquido - 128Gb RAM - 2x Intel Xeon Gold 5315Y - SpecInt 144.jpeg (734.11 KB)
- Anexo VI - Orçamento Dell - Poweredge R550 - 1920Gb SAS líquido - 128Gb RAM - 2x Intel Xeon Gold 5315Y - SpecInt 144.pdf (1.36 MB)
- Anexo VII - Configurações.pdf (523.26 KB)
- Anexo VIII - Configurações.xlsx (12.05 KB)
- Anexo IX - Emulex LPe31002 porta dupla 16GbE Fibre Channel HBA, perfil baixo, V2 _ Dell Brasil.jpeg (510.11 KB)
- Anexo X - Emulex LPe31002 porta dupla 16GbE Fibre Channel HBA, perfil baixo, V2 _ Dell Brasil.pdf (712.62 KB)



**Anexo I - Orçamento Dell - Poweredge R550 - 3840Gb
SAS líquido - 768Gb RAM - 2x Intel Xeon Gold 5318Y -
SpecInt 313-baseline.jpeg**



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PowerEdge R550 Rack Server Summary

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Estimated Value

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Total Savings

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Base	PowerEdge R550 Server	[210-AZEG] / 6856JKT	1
Motherboard	PowerEdge R550 Motherboard with Broadcom 5720 Dual Port 1Gb On-Board LOM	[329-BGJE] / GQL9N06	1
Trusted Platform Module	Trusted Platform Module 2.0 V3	[461-ANVG] / G6K1Y00	1
Chassis	3.5" Chassis with up to 8 Hard Drives (SAS/SATA), 2 CPU	[321-BGSE] / G6MY0N6	1
Fans	Standard Fan Cold Swap 3U.V2 x5	[750-ADNE] / G2ZAD1M	1
Shipping	PowerEdge R550 Shipping	[340-CVNM] / G0C6J52	1
Shipping Material	PowerEdge R550 Shipping Material	[343-BBRT] / G6LHQ4M	1
Regulatory	PowerEdge 2U CE,CCC and BIS Marking on 3.5" Chassis	[389-DYME]G89-DYME] / G3ECB6K	1
OEM Regulatory	None		
Processor	Intel® Xeon® Gold S11BY 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) D0M4-2933	[338-CBWG] / G0ET057	1
Additional Processor	Intel® Xeon® Gold S11BY 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) D0M4-2933	[338-CBWG]G379-BSC3] / GV70JMK3	1
Processor Thermal Configuration	High Performance HeatSink for 2 CPU configuration	[412-AAVT]G412-AAV1T] / G2Y7PK2	1
Memory DIMM Type and Speed	3200MT/s RDIMMs	[370-MEVE] / G8OCFNV	1
Memory Configuration Type	Performance Optimized	[370-AAVF] / G4HCEB1	1
Memory	64GB RDIMM, 3200MT/s, Dual Rank, 14Gb	[370-MEVE] / G0C5KJW	12
RAID	C4, RAID 5 for 3 or more HDDs or SSDs (Matching Type/Speed/Capacity)	[780-BCDP] / G0E4H1Y	1
RAID/Internal Storage Controllers	Front PERC H755 Front Load	[405-AAZE]G750-ACFE] / G8NBACX	1
Internal Optical Drive	No Internal Optical Drive	[429-ANQJ] / G2P9F08	1
Hard Drive	960GB SSD SAE 120qps MU FPS 140 PM6 S12x 2.5in with 3.5in HVB CARR 3 DWPD	[445-BCPE] / GXC5B00	5
Boot Optimized Storage Cards	No BIOS Card	[403-RCJG] / GEP1Z6	1
Operating System	No Operating System	[611-BB8F] / G78MJ05	1
OS Media Kits	No Media Required	[605-BBPN] / G6K07A2	1
Embedded Systems Management	iDRAC, Enterprise 15G	[385-BBQV] / G6NW593	1
Group Manager	iDRAC Group Manager, Disabled	[379-BCDY] / G7V6A4K	1
Password	iDRAC/Factory Generated Password	[379-BC3F] / G2T7J6J	1
iDRAC Service Module	None		
OCPI 3.0 Network Adapters	Intel E810-XXX Dual Port 10/25GbE SFP28, OCP NIC 3.0	[440-BCXG] / G0K0J7S	1
Additional Network Cards	Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile, V2	[440-BDDV] / G78FQ2Y	1
iOSDM Card Reader	None		
Additional Software	None		
Internal SD Module	None		
Power Supply	Dual, Hot-swap, Power Supply Fault Tolerant Redundant (1+1), 800W, Mixed ModuLAF	[450-AQXJ] / G7ADK34	1
Power Cords	NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	[450-AALV] / G74RQ3L	2
Bezel	No Bezel	[350-BBBW]G350-BCFM] / G722PRZ	1
Quick Sync	No Quick Sync	[350-RCBE] / G4UAZE1	1
BIOS and Advanced System Configuration Settings	Power Saving Dell Active Power Controller	[750-AA8T] / G06TYXW	1
Advanced System Configurations	UEFI BIOS Boot Mode with GPT Partition	[800-BB0M] / G0PTG4Y	1
Rack Rails	ReadyRails Static Rails for 2-4-post racks	[770-BDZG] / GW0EL38	1
System Documentation	No System Documentation, No OpenManage DVD Kit	[631-AACX] / G4RYVM7	1
Secondary OS	None		
Enabled Virtualization	None		
Microsoft SQL Server	None		

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Keep Your Hard Drive for Enterprise Services	None		
Keep Your Component for Enterprise Services	None		
Partner Operations Support	None		
Services: On-site Diagnosis Service	None		
Configuration Services Asset Report	None		
Enterprise Deployment Services	No Installation	[900-9997] / NONSTL	1

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station Tracks. Q1 2022

1 Server Replacements for Enterprises" commissioned by Dell Technologies and Intel, March 2021. Results are based on interviews with 18 IT practitioners and decision makers at midsize and large enterprises and a web survey of 707 IT practitioners and decision makers at midsize and larger enterprises using Dell Technologies server solutions across 7 industries. See full whitepaper: <https://www.delltechnologies.com/resources/en-us/assets/white-papers/products/servers/server-replacements-for-enterprises>

1 certain TVs, monitors, batteries and adapters, and is available in Continental (except Alaska) U.S. only. Other exceptions apply. Not valid for resellers and/or online auctions. Offers subject to change, not combinable with all other offers. See [Dell.com/rewardsfaq](#).

image due to fire, flood or other acts of nature, or intentional damage. Customer must return damaged unit. Limit of 1 qualified incident per contract year. See [dell.com/servicescontracts](#).

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**Anexo II - Orçamento Dell - Poweredge R550 - 3840Gb
SAS líquido - 768Gb RAM - 2x Intel Xeon Gold 5318Y -
SpecInt 313-baseline.pdf**



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PowerEdge R550 Rack Server Summary

Dell Price \$50,731.63

Estimated Value	\$80,660.71
Total Savings	\$29,929.08

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COMPONENTS

Option	Selection	SKU / Product Code	Quantity			
PowerEdge R550 Server	[210-AZEG] / G8S6JX7	1	Base	PowerEdge R550 Server	[210-AZEG] / G8S6JX7	1
PowerEdge R550 Motherboard with Broadcom 5720 Dual Port 1Gb On-Board LOM	[329-BGIB] / GQLSN36	1	Motherboard	PowerEdge R550 Motherboard with Broadcom 5720 Dual Port 1Gb On-Board LOM	[329-BGIB] / GQLSN36	1
Trusted Platform Module 2.0 V3	[461-AAIG] / GGX1VDO	1	Trusted Platform Module	Trusted Platform Module 2.0 V3	[461-AAIG] / GGX1VDO	1
3.5" Chassis with up to 8 Hard Drives (SAS/SATA), 2 CPU	[321-BGSI] / GM6YO9K	1	Chassis	3.5" Chassis with up to 8 Hard Drives (SAS/SATA), 2 CPU	[321-BGSI] / GM6YO9K	1
Standard Fan Cold Swap 2U,V2 x5	[750-ADIN] / G2ZA0YM	1	Fans	Standard Fan Cold Swap 2U,V2 x5	[750-ADIN] / G2ZA0YM	1
PowerEdge R550 Shipping	[340-CVKM] / GDE6JS2	1	Shipping	PowerEdge R550 Shipping	[340-CVKM] / GDE6JS2	1
PowerEdge R550 Shipping Material	[343-BBRT] / GEUHQ4M	1	Shipping Material	PowerEdge R550 Shipping Material	[343-BBRT] / GEUHQ4M	1
PowerEdge 2U CE,CCC and BIS Marking on 3.5" Chassis	[389-DYMQ] / [389-DYMS] / G3EC8BK	1	Regulatory	PowerEdge 2U CE,CCC and BIS Marking on 3.5" Chassis	[389-DYMQ] / [389-DYMS] / G3EC8BK	1



Option	Selection	SKU / Product Code	Quantity			
None			OEM Regulatory	None		
Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933	[338-CBWO] / GOET0S7	1	Processor	Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933	[338-CBWO] / GOET0S7	1
Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933	[338-CBWO] [379-BDCO] / GV70J63	1	Additional Processor	Intel® Xeon® Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933	[338-CBWO] [379-BDCO] / GV70J63	1
High Performance Heatsink for 2 CPU configuration	[412-AAVT] [412-AAVT] / GZV7PK2	1	Processor Thermal Configuration	High Performance Heatsink for 2 CPU configuration	[412-AAVT] [412-AAVT] / GZV7PK2	1
3200MT/s RDIMMs	[370-AEVR] / GR3CFNV	1	Memory DIMM Type and Speed	3200MT/s RDIMMs	[370-AEVR] / GR3CFNV	1
Performance Optimized	[370-AAIP] / GH9QBEI	1	Memory Configuration Type	Performance Optimized	[370-AAIP] / GH9QBEI	1
64GB RDIMM, 3200MT/s, Dual Rank, 16Gb	[370-AEVP] / GQC5KJW	12	Memory ⁱ	64GB RDIMM, 3200MT/s, Dual Rank, 16Gb	[370-AEVP] / GQC5KJW	12
C4, RAID 5 for 3 or more HDDs or SSDs (Matching Type/Speed/Capacity)	[780-BCDP] / GQEH61Y	1	RAID	C4, RAID 5 for 3 or more HDDs or SSDs (Matching Type/Speed/Capacity)	[780-BCDP] / GQEH61Y	1
Front PERC H755 Front Load	[405-AAZB] [750-ACFR] / GRNB4CX	1	RAID/Internal Storage Controllers	Front PERC H755 Front Load	[405-AAZB] [750-ACFR] / GRNB4CX	1
No Internal Optical Drive	[429-AAIQ] / GZP2ROB	1	Internal Optical Drive	No Internal Optical Drive	[429-AAIQ] / GZP2ROB	1
960GB SSD SAS 12Gbps MU FIPS-140 PM6 512e 2.5in with 3.5in HYB CARR 3 DWPD	[345-BCPI] / GXZSBD0	5	Hard Drive	960GB SSD SAS 12Gbps MU FIPS-140 PM6 512e 2.5in with 3.5in HYB CARR 3 DWPD	[345-BCPI] / GXZSBD0	5
No BOSS Card	[403-BCID] / GIEP1Z6	1	Boot Optimized Storage Cards	No BOSS Card	[403-BCID] / GIEP1Z6	1
No Operating System	[611-BBBF] / G78MU35	1	Operating System	No Operating System	[611-BBBF] / G78MU35	1
No Media Required	[605-BBFN] / GKH7AZI	1	OS Media Kits	No Media Required	[605-BBFN] / GKH7AZI	1
iDRAC9, Enterprise 15G	[385-BBQV] / G4NWS93	1	Embedded Systems Management	iDRAC9, Enterprise 15G	[385-BBQV] / G4NWS93	1



Option	Selection	SKU / Product Code	Quantity			
iDRAC Group Manager, Disabled	[379-BCQY] / GTVA94K	1	Group Manager	iDRAC Group Manager, Disabled	[379-BCQY] / GTVA94K	1
iDRAC,Factory Generated Password	[379-BCSF] / G2T768J	1	Password	iDRAC,Factory Generated Password	[379-BCSF] / G2T768J	1
None			IDRAC Service Module	None		
Intel E810-XXV Dual Port 10/25GbE SFP28, OCP NIC 3.0	[540-BCXW] / GQ62UTS	1	OCP 3.0 Network Adapters	Intel E810-XXV Dual Port 10/25GbE SFP28, OCP NIC 3.0	[540-BCXW] / GQ62UTS	1
Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile, V2	[540-BDGV] / G7BFQ2Y	1	Additional Network Cards	Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile, V2	[540-BDGV] / G7BFQ2Y	1
None			IDSDM Card Reader	None		
None			Additional Software	None		
None			Internal SD Module	None		
Dual, Hot-plug, Power Supply Fault Tolerant Redundant (1+1), 800W, Mixed Mode,NAF	[450-AIQX] / GTADK34	1	Power Supply	Dual, Hot-plug, Power Supply Fault Tolerant Redundant (1+1), 800W, Mixed Mode,NAF	[450-AIQX] / GTADK34	1
NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	[450-AALV] / G749Q3L	2	Power Cords	NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	[450-AALV] / G749Q3L	2
No Bezel	[350-BBBW] / [350-BCFM] / G720PIZ	1	Bezel	No Bezel	[350-BBBW] / [350-BCFM] / G720PIZ	1
No Quick Sync	[350-BCER] / GLUIZE1	1	Quick Sync	No Quick Sync	[350-BCER] / GLUIZE1	1
Power Saving Dell Active Power Controller	[750-AABF] / G06TYXW	1	BIOS and Advanced System Configuration Settings	Power Saving Dell Active Power Controller	[750-AABF] / G06TYXW	1
UEFI BIOS Boot Mode with GPT Partition	[800-BBDM] / GSFTG4Y	1	Advanced System Configurations	UEFI BIOS Boot Mode with GPT Partition	[800-BBDM] / GSFTG4Y	1
ReadyRails Static Rails for 2/4-post Racks	[770-BDZN] / GW0EL38	1	Rack Rails	ReadyRails Static Rails for 2/4-post Racks	[770-BDZN] / GW0EL38	1
No Systems Documentation, No OpenManage DVD Kit	[631-AACK] / GVRYSM7	1	System Documentation	No Systems Documentation, No OpenManage DVD Kit	[631-AACK] / GVRYSM7	1
None			Secondary OS	None		



Option	Selection	SKU / Product Code	Quantity
None		Enabled Virtualization	None
None		Microsoft SQL Server	None

SERVICES & SUPPORT

Option	Selection	SKU / Product Code	Quantity
Basic Next Business Day 36 Months, 36 Month(s)	[709-BBFL] / G32DMTS	1	Protect your purchase ¹ - View Support offers below
ProSupport and 4Hr Mission Critical, 60 Month(s)	[865-BBNB] / GO27IM3	1	Extended Services
None			Keep Your Hard Drive for Enterprise Services
None			Keep Your Component for Enterprise Services
None			Partner Operations Support
None			Services: On-site Diagnosis Service
None			Configuration Services Asset Report
No Installation	[900-9997] / NOINSTL	1	Enterprise Deployment Services

Also included in this system

The following options and default selections are included with your order.

- None
- None
- None
- None

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Leadership in Workstations - Source: IDC Quarterly Workstation Tracker, Q1 2022

***IDC Whitepaper “Optimizing Performance with Frequent Server Replacements for Enterprises”** commissioned by Dell Technologies and Intel, March 2021. Results are based on interviews with 18 IT practitioners and decision makers at midsize and large enterprises and a web survey of 707 IT practitioners and decision makers at midsize and larger enterprises using Dell Technologies server solutions across 7 industries. See full whitepaper: <https://www.delltechnologies.com/resources/en-us/asset/white-papers/products/servers/server-infrastructure-resiliency-enterprise-whitepaper.pdf> (<https://www.delltechnologies.com/resources/en-us/asset/white-papers/products/servers/server-infrastructure-resiliency-enterprise-whitepaper.pdf>).

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