

Certified Platinum Configurations

Last Updated: November 10, 2022

The tables in this document describe the Certified Platinum Services Configurations currently effective for the applicable engineered system. In order to determine which table applies to you, please click on the link for the specific system you wish to check certification for. There may be a lapse between the announcement of new product releases and the certification of said products on Oracle Platinum Services. In cases of discrepancy, the information contained in this certification matrix will be used.

For information on Certified Platinum Configuration requirements, please refer to the Oracle Platinum Services Policies available at: <http://www.oracle.com/us/support/library/platinum-services-policies-1652886.pdf>.

The Certified Platinum Configurations are subject to change at Oracle's discretion. The latest certified versions should be met by new systems boarding to the service, except where otherwise noted. Existing systems should, at the minimum, have the earliest compliant versions allowed. Any versions older than the listed "Earliest Compliant Version(s) Allowed" or newer than the "Latest Certified Versions" are outside of the current scope of the service. Systems configured with such out of scope versions are not eligible for Platinum Services implementation.

The following Certified Platinum Configuration tables are available in this document:

- [Certified Exadata Platinum Configurations](#)
- [Certified Exalogic Platinum Configurations](#)
- [Certified SuperCluster Platinum Configurations](#)
- [Certified Zero Data Loss Recovery Appliance Platinum Configurations](#)
- [Certified ZFS Storage Appliance Racked System Platinum Configurations](#)
- [Certified ZFS Backup Appliance Platinum Configurations](#)
- [Certified Oracle Private Cloud Appliance Platinum Configurations](#)

Certified Exadata Platinum Configurations

Engineered System: Exadata *(continues on next page)*

An Exadata Certified Platinum Configuration is composed of one required component from each column below for each hardware type.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required Unless Otherwise Noted)	
		Latest Certified Versions	Earliest Compliant Versions	Latest Certified Versions	Earliest Compliant Version(s) Allowed
X3-2 or X3-8 with X3-2 Storage (Exadata Storage)	<p>Oracle Linux (Recommended) or Oracle Solaris 11 option for X3-2 or X4-2 only*</p> <p>*OS version is determined by Exadata Storage Server Software version specified in the Programs column</p>	11.2.0.4 Oct 2020 ¹	11.2.0.4 Oct 2020 ¹	Exadata Storage Server 12.1.1.1 (Oracle Solaris only)	Exadata Storage Server 12.1.1.1 (Oracle Solaris only)
X4-2 or X4-8 (Exadata Storage)		<p>OR</p> <p>19.17.0.0 Oct 2022</p> <p>OR</p> <p>21.8.0.0 Oct 2022</p> <p>(Quarterly Full Stack Download)</p>	<p>OR</p> <p>19.15.0.0 Apr 2022</p> <p>OR</p> <p>21.6.0.0 Apr 2022</p> <p>(Quarterly Full Stack Download)</p>	<p>OR</p> <p>Exadata Storage Server 20.1.22.0.0</p>	<p>OR</p> <p>Exadata Storage Server 20.1.22.0.0</p>

¹Extended Support for Oracle Database 11.2.0.4 ended on December 31, 2020. Database version 11.2.0.4 is only eligible for already implemented Oracle Exadata systems which have procured 11gR2 Market Driven Support (MDS) services from Oracle ACS, to prevent decommissioning of the infrastructure from Oracle Platinum Services. Oracle Platinum Services will no longer patch or monitor 11.2.0.4 database homes and components. There will be no new implementations of Oracle Exadata systems using Oracle Database version 11.2.0.4 on Oracle Platinum Services.

Note: Limited Error Correction for Oracle Database version 12.2.0.1 ended on March 31, 2022. Systems with 12.2.0.1 database homes and components are no longer eligible for Oracle Platinum Services. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.2.0.1 on Oracle Platinum Services.

Note: Extended Support for Oracle Database 12.1.0.2 ended on July 31, 2022 and there is no extension. Configurations with only database version 12.1.0.2 are no longer eligible for Oracle Platinum Services and must upgrade to version 19c immediately to avoid decommission. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.1.0.2 on Oracle Platinum Services.

Upgrade to version 19c with Oracle Platinum Services—see Doc ID [2846401.1](#).

Engineered System: Exadata (continued from previous page)

An Exadata Certified Platinum Configuration is composed of one required component from each column below for each hardware type.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required Unless Otherwise Noted)	
		Latest Certified Versions	Earliest Compliant Versions	Latest Certified Versions	Earliest Compliant Version(s) Allowed
X5-2 (Exadata Storage)	Oracle Linux* *OS version is determined by Exadata Storage Server Software version specified in the Programs column	11.2.0.4 Oct 2020 ¹ OR 19.17.0.0 Oct 2022 OR 21.8.0.0 Oct 2022 (Quarterly Full Stack Download)	11.2.0.4 Oct 2020 ¹ OR 19.15.0.0 Apr 2022 OR 21.6.0.0 Apr 2022 (Quarterly Full Stack Download)	Exadata Storage Server 20.1.22.0.0	Exadata Storage Server 20.1.22.0.0
X5-8 (Exadata Storage)				OR	OR
X6-2 (Exadata Storage)				Exadata Storage Server 21.2.17.0.0	Exadata Storage Server 21.2.11.0.0
X6-8 (Exadata Storage)				OR	OR
X7-2 (Exadata Storage)				Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0
X7-8 (Exadata Storage)					

¹ Extended Support for Oracle Database 11.2.0.4 ended on December 31, 2020. Database version 11.2.0.4 is only eligible for already implemented Oracle Exadata systems which have procured 11gR2 Market Driven Support (MDS) services from Oracle ACS, to prevent decommissioning of the infrastructure from Oracle Platinum Services. Oracle Platinum Services will no longer patch or monitor 11.2.0.4 database homes and components. There will be no new implementations of Oracle Exadata systems using Oracle Database version 11.2.0.4 on Oracle Platinum Services.

Note: Limited Error Correction for Oracle Database version 12.2.0.1 ended on March 31, 2022. Systems with 12.2.0.1 database homes and components are no longer eligible for Oracle Platinum Services. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.2.0.1 on Oracle Platinum Services.

Note: Extended Support for Oracle Database 12.1.0.2 ended on July 31, 2022 and there is no extension. Configurations with only database version 12.1.0.2 are no longer eligible for Oracle Platinum Services and must upgrade to version 19c immediately to avoid decommission. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.1.0.2 on Oracle Platinum Services.

Upgrade to version 19c with Oracle Platinum Services—see Doc ID [2846401.1](#).

Engineered System: Exadata (continued from previous page)

An Exadata Certified Platinum Configuration is composed of one required component from each column below for each hardware type.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required Unless Otherwise Noted)	
		Latest Certified Versions	Earliest Compliant Versions	Latest Certified Versions	Earliest Compliant Version(s) Allowed
X8-2 (Exadata Storage)	Oracle Linux*	11.2.0.4 Oct 2020 ¹	11.2.0.4 Oct 2020 ¹	Exadata Storage Server 20.1.22.0.0	Exadata Storage Server 20.1.22.0.0
X8-8 (Exadata Storage)		OR	OR	OR	OR
		19.17.0.0 Oct 2022	19.15.0.0 Apr 2022	OR	OR
		OR	OR	Exadata Storage Server 21.2.17.0.0	Exadata Storage Server 21.2.11.0.0
		21.8.0.0 Oct 2022	21.5.0.0 Apr 2022	OR	OR
		(Quarterly Full Stack Download)	(Quarterly Full Stack Download)	Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0
X8M-2 (Exadata Storage)	11.2.0.4 Oct 2020 ¹	11.2.0.4 Oct 2020 ¹	Exadata Storage Server 20.1.22.0.0	Exadata Storage Server 20.1.22.0.0	
X8M-8 (Exadata Storage)	OR	OR	OR	OR	
	19.17.0.0 Oct 2022	19.15.0.0 Apr 2022	Exadata Storage Server 21.2.17.0.0	Exadata Storage Server 21.2.11.0.0	
	OR	OR	OR	OR	
	21.8.0.0 Oct 2022	21.6.0.0 Apr 2022	Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0	
	(Quarterly Full Stack Download)	(Quarterly Full Stack Download)			
X9M-2 (Exadata Storage)	19.17.0.0 Oct 2022	19.15.0.0 Apr 2022	Exadata Storage Server 21.2.17.0.0	Exadata Storage Server 21.2.11.0.0	
X9M-8 (Exadata Storage)	OR	OR	OR	OR	
	21.8.0.0 Oct 2022	21.6.0.0 Apr 2022	Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0	
	(Quarterly Full Stack Download)	(Quarterly Full Stack Download)			

¹Extended Support for Oracle Database 11.2.0.4 ended on December 31, 2020. Database version 11.2.0.4 is only eligible for already implemented Oracle Exadata systems which have procured 11gR2 Market Driven Support (MDS) services from Oracle ACS, to prevent decommissioning of the infrastructure from Oracle Platinum Services. Oracle Platinum Services will no longer patch or monitor 11.2.0.4 database homes and components. There will be no new implementations of Oracle Exadata systems using Oracle Database version 11.2.0.4 on Oracle Platinum Services.

Note: Limited Error Correction for Oracle Database version 12.2.0.1 ended on March 31, 2022. Systems with 12.2.0.1 database homes and components are no longer eligible for Oracle Platinum Services. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.2.0.1 on Oracle Platinum Services.

Note: Extended Support for Oracle Database 12.1.0.2 ended on July 31, 2022 and there is no extension. Configurations with only database version 12.1.0.2 are no longer eligible for Oracle Platinum Services and must upgrade to version 19c immediately to avoid decommission. There will be no new implementations of Oracle Exadata systems using version 12.1.0.2 on Oracle Platinum Services.

Upgrade to version 19c with Oracle Platinum Services—see (Doc ID [2846401.1](#)).

Certified Exalogic Platinum Configurations

Engineered System: Exalogic

An Exalogic Certified Platinum Configuration is composed of one required component from each column below for each hardware type.

Hardware (Required)	Operating System (Required/Optional as Noted)	Programs (Required/Optional as Noted)	
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
X3-2	(Linux, Solaris, virtual)* (Required) *OS version is determined by Exalogic Program version specified in the respective Programs column. The OS version must always be the same as the Program version.	Exalogic Elastic Cloud Software 2.0.6.3.221018 ^{a,b} (Linux, virtual) (Required)	Exalogic Elastic Cloud Software 2.0.6.3.220419 ^{a,b} (Linux, virtual) (Required)
X4-2		OR	OR
X5-2		Exalogic Elastic Cloud Software 2.0.6.4.221018 (Linux, Solaris, virtual) (Required)	Exalogic Elastic Cloud Software 2.0.6.4.220419 (Linux, Solaris, virtual) (Required)
X6-2			

^a Version 2.0.6.3.x is not eligible for onboarding or re-implementation; and for existing implementations, only virtual environments are supported.

^b Version 2.0.6.3.x non-virtual environments will no longer receive Oracle Platinum Services.

Certified SuperCluster Platinum Configurations

Engineered System: SuperCluster

A SuperCluster Certified Platinum Configuration is composed of one required component from each column below for each hardware type.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required/Optional as Noted)	
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed	Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
T4-4	Solaris 10 8/11 (Update 10) with patch set no more than 6 months old (Optional)			Exalogic Elastic Cloud Software 2.6.0.4.x (Optional)	Exalogic Elastic Cloud Software 2.6.0.4.x (Optional)
T5-8				OR	OR
M6-32	11.3 with Support Repository Update (SRU) release no more than 6 months old (Required)	11.2.0.4 ³ Oct 2020 OR 19.16.0.0 Jul 2022 (Quarterly Full Stack Download)	11.2.0.4 ³ Oct 2020 OR 19.15.0.0 Apr 2022 (Quarterly Full Stack Download)	Exadata Storage Server 20.1.21.0.0	Exadata Storage Server 20.1.21.0.0
	OR			OR	OR
M7	11.3 with Support Repository Update (SRU) release no more than 6 months old (Required)			Exadata Storage Server 20.1.21.0.0	Exadata Storage Server 20.1.21.0.0
	OR			OR	
M8	11.4 with Support Repository Update (SRU) release no more than 6 months old (Required)			Exadata Storage Server 21.2.14.0.0	Exadata Storage Server 21.2.11.0.0
	OR			OR	
				Exadata Storage Server 22.2.1.0.0 (Recommended)	Exadata Storage Server 22.2.1.0.0 (Recommended)

³Extended Support for Oracle Database 11.2.0.4 ended on December 31, 2020. Database version 11.2.0.4 is only eligible for already implemented Oracle Exadata systems which have procured 11gR2 Market Driven Support (MDS) services from Oracle ACS, to prevent decommissioning of the infrastructure from Oracle Platinum Services. Oracle Platinum Services will no longer patch or monitor 11.2.0.4 database homes and components. There will be no new implementations of Oracle Exadata systems using Oracle Database version 11.2.0.4 on Oracle Platinum Services.

Note: Limited Error Correction for Oracle Database version 12.2.0.1 ended on March 31, 2022. Systems with 12.2.0.1 database homes and components are no longer eligible for Oracle Platinum Services. There will be no new implementations of Oracle Exadata systems using Oracle Database version 12.2.0.1 on Oracle Platinum Services.

Note: Extended Support for Oracle Database 12.1.0.2 ended on July 31, 2022 and there is no extension. Configurations with only database version 12.1.0.2 are no longer eligible for Oracle Platinum Services and must upgrade to version 19c immediately to avoid decommission. There will be no new implementations of Oracle Exadata systems using version 12.1.0.2 on Oracle Platinum Services.

Upgrade to version 19c with Oracle Platinum Services—see (Doc ID [2846401.1](#)).

Certified Zero Data Loss Recovery Appliance Platinum Configurations

Engineered System: Zero Data Loss Recovery Appliance *(continues on next page)*

A Zero Data Loss Recovery Appliance Certified Platinum Configuration is composed of one required component from each column below for each hardware type. The database version contained in the RPM (Programs column) supersedes the one listed in the Oracle Database column.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required/Optional as Noted)	
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed	Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
X5	Oracle Linux* *OS version is determined by Exadata Storage Server Software version specified in the Programs column	19.x (Quarterly Full Stack Download)	19.x (Quarterly Full Stack Download)		
X6				Exadata Storage Server 20.1.22.0.0 OR Exadata Storage Server 21.2.17.0.0 OR Exadata Storage Server 22.1.4.0.0 ----- RA Automation RPM 19.2.1.1.2-202202-34170031	Exadata Storage Server 20.1.22.0.0 OR Exadata Storage Server 21.2.13.0.0 OR Exadata Storage Server 22.1.0.0.0 ----- RA Automation RPM 19.2.1.1.2-202202-33952192
X7				RA Automation RPM 21.1.202210-34747140 ⁵ (Required)	RA Automation RPM 21.1.202204-34344242 ⁵ (Required)

⁵ Oracle Platinum Services is currently available for features supported prior to ZDLRA 21.1 (see Doc ID [2542836.1](#))

Note: RA Automation RPM version **must** be compatible with (and supported on) specific Exadata Storage Server Software version

Engineered System: Zero Data Loss Recovery Appliance (continued from previous page)

A Zero Data Loss Recovery Appliance Certified Platinum Configuration is composed of one required component from each column below for each hardware type. The database version contained in the RPM (Programs column) supersedes the one listed in the Oracle Database column.

Hardware (Required)	Operating System (Required/Optional as Noted)	Oracle Database (Required)		Programs (Required/Optional as Noted)	
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed	Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
X8	Oracle Linux* *OS version is determined by Exadata Storage Server Software version specified in the Programs column	19.x (Quarterly Full Stack Download)	19.x (Quarterly Full Stack Download)	Exadata Storage Server 20.122.0.0	Exadata Storage Server 20.115.0.0
X8M				OR	OR
		X9M	19.x (Quarterly Full Stack Download)	19.x (Quarterly Full Stack Download)	Exadata Storage Server 21.2.17.0.0
OR					OR
RA21	19.x (Quarterly Full Stack Download)	19.x (Quarterly Full Stack Download)	Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0	
			OR	OR	
				RA Automation RPM 19.2.1.1.2-202202-34170031	RA Automation RPM 19.2.1.1.2-202202-33952192
				OR	OR
				RA Automation RPM 21.1.202210-34747140 ⁵ (Required)	RA Automation RPM 21.1.202204-34344242 ⁵ (Required)
				Exadata Storage Server 21.2.17.0.0	Exadata Storage Server 21.2.13.0.0
				OR	OR
				Exadata Storage Server 22.1.4.0.0	Exadata Storage Server 22.1.0.0.0
				OR	OR
				RA Automation RPM 19.2.1.1.2-202202-34170031	RA Automation RPM 19.2.1.1.2-202202-33952192
				OR	OR
				RA Automation RPM 21.1.202210-34747140 ⁵ (Required)	RA Automation RPM 21.1.202204-34344242 ⁵ (Required)

⁵ Oracle Platinum Services is currently available for features supported prior to ZDLRA 21.1 (see Doc ID [2542836.1](#))

Note: RA Automation RPM version **must** be compatible with (and supported on) specific Exadata Storage Server Software version

Certified ZFS Storage Appliance Racked System Platinum Configurations

Engineered System: ZFS Storage Appliance Racked System *(continues on next page)*

A ZFS Storage Appliance Racked System Certified Platinum Configuration is composed of one required component from each column below for each hardware type and meets all the requirements in DOC ID 2068328.1.

Hardware (Required)	Expansion (Required/Optional as Noted)	Operating System (Required/Optional as Noted)		Use Case (Required)	Programs/Protocols (Required Unless Noted as Recommended)
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed		
ZS4-4	2 to 28 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack) (Optional)	OS8.8.44 ⁶ (Appliance Kit 2013.06.05.8.44) (Required)	OS8.8.36 ⁶ (Appliance Kit 2013.06.05.8.36) (Required)	Backup Storage ONLY - when attached to Oracle Platinum Services implemented Exadata, Exalogic, or SuperCluster	<ul style="list-style-type: none"> MIRRORED or RAIDZ1 or RAIDZ2 ZFS Data Pools Up to one ZFS Data Pool Per Head Configure all Fiber Channel Ports for INITIATOR Mode Data deduplication supported on v8.7 or later, 2+ meta devices (striped), Enable on projects/shares for full backups Disable SRP, iSCSI**, SMB, HTTP, TFTP and SFTP Enable DNS and NFS Support for NFSv3 and above ONLY Enable NIS or LDAP Number of Disk Trays Check* (at least 2 disk trays recommended) PCIe Slot Check Installed Memory Check Cluster Configuration Check*(each head must be in Clustered State) Number of Read Cache Drives Check Number of Log Drives Check Number of Log Drives Per Disk Tray Check ILOM Network Configured Check* (ILOM Network IP Address assigned) Private Network Management Port Check*(network must be a private resource) Pool/ Share Names Check (Recommended) Shares Record Size Check (Recommended) FTP Option Check (Recommended/Optional)
ZS5-2	2 to 16 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)				
ZS5-4	2 to 38 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)				
ZS7-2 mid-range	2 to 16 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)				

*Required for Implementation
 ** Can be enabled when connected to PCA

⁶ As recommended for Oracle Platinum Services in DOC ID 2277325.1

Engineered System: ZFS Storage Appliance Racked System *(continued from above)*

A ZFS Storage Appliance Racked System Certified Platinum Configuration is composed of one required component from each column below for each hardware type and meets all the requirements in DOC ID 2068328.1.

Hardware (Required)	Expansion (Required/Optional as Noted)	Operating System (Required/Optional as Noted)		Use Case (Required)	Programs/Protocols (Required Unless Noted as Recommended)
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed		
ZS7-2 high-end	2 to 48 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)	OS8.8.44 ⁶ (Appliance Kit 2013.06.05.8.44) (Required)	OS8.8.36 ⁶ (Appliance Kit 2013.06.05.8.36) (Required)	Backup Storage ONLY - when attached to Oracle Platinum Services implemented Exadata, Exalogic, or SuperCluster	<ul style="list-style-type: none"> • MIRRORRED or RAIDZ1 or RAIDZ2 ZFS Data Pools • Up to one ZFS Data Pool Per Head • Configure all Fiber Channel Ports for INITIATOR Mode • Data deduplication supported on v8.7 or later, 2+ meta devices (striped), Enable on projects/shares for full backups • Disable SRP, iSCSI**, SMB, HTTP, TFTP and SFTP • Enable DNS and NFS • Support for NFSv3 and above ONLY • Enable NIS or LDAP • Number of Disk Trays Check* (at least 2 disk trays recommended) • PCIE Slot Check • Installed Memory Check • Cluster Configuration Check*(each head must be in Clustered State) • Number of Read Cache Drives Check • Number of Log Drives Check • Number of Log Drives Per Disk Tray Check • ILOM Network Configured Check* (ILOM Network IP Address assigned) • Private Network Management Port Check*(network must be a private resource) • Pool/ Share Names Check (Recommended) • Shares Record Size Check (Recommended) • FTP Option Check (Recommended/Optional) <p>*Required for Implementation **Can be enabled when connected to PCA</p>

⁶ As recommended for Oracle Platinum Services in DOC ID 2277325.1

Engineered System: ZFS Storage Appliance Racked System *(continued from above)*

A ZFS Storage Appliance Racked System Certified Platinum Configuration is composed of one required component from each column below for each hardware type and meets all the requirements in DOC ID 2068328.1.

Hardware (Required)	Expansion (Required/Optional as Noted)	Operating System (Required/Optional as Noted)		Use Case (Required)	Programs/Protocols (Required Unless Noted as Recommended)
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed		
ZS9-2 mid-range	2 to 24 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)	OS8.8.50 ⁶ (Appliance Kit 2013.06.05.8.50) (Required)	OS8.8.47 ⁶ (Appliance Kit 2013.06.05.8.47) (Required)	Backup Storage ONLY - when attached to Oracle Platinum Services implemented Exadata, Exalogic, or SuperCluster	<ul style="list-style-type: none"> • MIRRORRED or RAIDZ1 or RAIDZ2 ZFS Data Pools • Up to one ZFS Data Pool Per Head • Configure all Fiber Channel Ports for INITIATOR Mode • Data deduplication supported on v8.7 or later, 2+ meta devices (striped), Enable on projects/shares for full backups • Disable SRP, iSCSI**, SMB, HTTP, TFTP and SFTP • Enable DNS and NFS • Support for NFSv3 and above ONLY • Enable NIS or LDAP • Number of Disk Trays Check* (at least 2 disk trays recommended) • PCIE Slot Check • Installed Memory Check • Cluster Configuration Check*(each head must be in Clustered State) • Number of Read Cache Drives Check • Number of Log Drives Check • Number of Log Drives Per Disk Tray Check • ILOM Network Configured Check* (ILOM Network IP Address assigned) • Private Network Management Port Check*(network must be a private resource) • Pool/ Share Names Check (Recommended) • Shares Record Size Check (Recommended) • FTP Option Check (Recommended/Optional) <p>*Required for Implementation **Can be enabled when connected to PCA</p>

⁶ As recommended for Oracle Platinum Services in DOC ID 2277325.1

Engineered System: ZFS Storage Appliance Racked System *(continued from above)*

A ZFS Storage Appliance Racked System Certified Platinum Configuration is composed of one required component from each column below for each hardware type and meets all the requirements in DOC ID 2068328.1.

Hardware (Required)	Expansion (Required/Optional as Noted)	Operating System (Required/Optional as Noted)		Use Case (Required)	Programs/Protocols (Required Unless Noted as Recommended)
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed		
ZS9-2 high-end	2 to 48 disk enclosures (via ZFS Storage Appliance Racked System Expansion Rack DE3) (Optional)	OS8.8.50 ⁶ (Appliance Kit 2013.06.05.8.50) (Required)	OS8.8.47 ⁶ (Appliance Kit 2013.06.05.8.47) (Required)	Backup Storage ONLY - when attached to Oracle Platinum Services implemented Exadata, Exalogic, or SuperCluster	<ul style="list-style-type: none"> • MIRRORRED or RAIDZ1 or RAIDZ2 ZFS Data Pools • Up to one ZFS Data Pool Per Head • Configure all Fiber Channel Ports for INITIATOR Mode • Data deduplication supported on v8.7 or later, 2+ meta devices (striped), Enable on projects/shares for full backups • Disable SRP, iSCSI**, SMB, HTTP, TFTP and SFTP • Enable DNS and NFS • Support for NFSv3 and above ONLY • Enable NIS or LDAP • Number of Disk Trays Check* (at least 2 disk trays recommended) • PCIE Slot Check • Installed Memory Check • Cluster Configuration Check*(each head must be in Clustered State) • Number of Read Cache Drives Check • Number of Log Drives Check • Number of Log Drives Per Disk Tray Check • ILOM Network Configured Check* (ILOM Network IP Address assigned) • Private Network Management Port Check*(network must be a private resource) • Pool/ Share Names Check (Recommended) • Shares Record Size Check (Recommended) • FTP Option Check (Recommended/Optional) <p>*Required for Implementation **Can be enabled when connected to PCA</p>

⁶ As recommended for Oracle Platinum Services in DOC ID 2277325.1

Certified ZFS Backup Appliance Platinum Configurations

Engineered System: ZFS Backup Appliance

A ZFS Backup Appliance Certified Platinum Configuration is composed of one required component from each column below for each hardware type and meets all the requirements in DOC ID 2068328.1.

Hardware (Required)	Expansion (Required/Optional as Noted)	Operating System (Required/Optional as Noted)		Use Case (Required)	Programs/Protocols (Required Unless Noted as Recommended)
		Latest Certified Version(s)	Earliest Compliant Version(s) Allowed		
ZS4-4	2 to 28 disk enclosures (via ZFS Backup Appliance Expansion Rack)	OS8.8.44 ⁶ (Appliance Kit 2013.06.05.8.44) (Required)	OS8.8.36 ⁶ (Appliance Kit 2013.06.05.8.36) (Required)	Backup Storage ONLY - when attached to Exadata, Exalogic, or SuperCluster, which is already implemented on Oracle Platinum Services	<ul style="list-style-type: none"> MIRRORED or RAIDZ1 or RAIDZ2 ZFS Data Pools Up to one ZFS Data Pool Per Head Configure all Fiber Channel Ports for INITIATOR Mode Data deduplication supported on v8.7 or later, 2+ meta devices (striped), Enable on projects/shares for full backups Disable SRP, iSCSI**, SMB, HTTP, TFTP and SFTP Enable DNS and NFS Support for NFSv3 and above ONLY Enable NIS or LDAP Number of Disk Trays Check (at least 2 disk trays recommended) PCIE Slot Check Installed Memory Check Cluster Configuration Check (each head must be in Clustered State) Number of Read Cache Drives Check Number of Log Drives Check Number of Log Drives Per Disk Tray Check ILOM Network Configured Check* (ILOM Network IP Address assigned) Private Network Management Port* Check (network must be a private resource) Pool/ Share Names Check (Recommended) Shares Record Size Check (Recommended) FTP Option Check (Recommended/Optional) <p>*Required for Implementation **Can be enabled when connected to PC</p>
ZS5-2	2 to 16 disk enclosures (via ZFS Backup Appliance Expansion Rack DE3)				
ZS5-4	2 to 38 disk enclosures (via ZFS Backup Appliance Expansion Rack DE3)				

⁶ As recommended for Oracle Platinum Services in DOC ID 2277325.1

Certified Oracle Private Cloud Appliance Platinum Configurations

Engineered System: Oracle Private Cloud Appliance^{7,8} (continues on next page)

An Oracle Private Cloud Appliance Certified Platinum Configuration consists of one required component from each column below for each hardware type (which includes a Management Node, a Compute Node and External Storage).

Hardware (Required)			Operating System (Required/Optional as Noted)	Compliant Firmware Versions (Required)	Programs (Required/Optional as Noted)	
Management Node (Required)	Compute Node (Required)	External Storage (Required/Optional as Noted)			Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
X5-2	X7-2	ZS5* OR ZS7* (Racked System or Storage Appliance) (Required) (Infiniband and/or 10Gb Ethernet attached) Note: Required Internal Storage must be ZS5 or later	Oracle VM Server for x86* (Required) *OVM version is determined by Private Cloud Appliance Program version specified in the respective Programs column. The OVM version must always be the same as the Program version.	FW version is determined by Oracle Private Cloud Appliance Program version specified in the respective Programs column. The FW version must always be the same as the ones included in the corresponding Program version.	Private Cloud Appliance Management Software 2.4.3.1 (Oracle VM Server) (Required)	Private Cloud Appliance Management Software 2.4.3 (Oracle VM Server) (Required)
	X8-2	*ZFS Racked Systems (when attached to PCA as external or expansion storage) are eligible for Platinum Services under the requirements outlined for ZFS RS on page 10				Private Cloud Appliance Management Software 2.4.3 (Oracle VM Server) (Required)

⁷ Oracle Private Cloud Appliances which are implemented on Platinum Services cannot be used as a gateway host or for non-Oracle monitoring.

⁸ Oracle Private Cloud Appliances which are implemented on Platinum Services cannot be used to host customer-installed ASR Manager for monitoring non-certified Platinum Configurations.

Certified Oracle Private Cloud Appliance Platinum Configurations

Engineered System: Oracle Private Cloud Appliance^{7,8} (continued from above)

An Oracle Private Cloud Appliance Certified Platinum Configuration consists of one required component from each column below for each hardware type (which includes a Management Node, a Compute Node and External Storage).

Hardware (Required)			Operating System (Required/Optional as Noted)	Compliant Firmware Versions (Required)	Programs (Required/Optional as Noted)	
Management Node (Required)	Compute Node (Required)	External Storage (Required/Optional as Noted)			Latest Certified Version(s)	Earliest Compliant Version(s) Allowed
X8-2	X8-2	Integrated ZS7 (with dual controllers) Additional External Storage (Optional)	Oracle VM Server for x86* (Required)	FW version is determined by Oracle Private Cloud Appliance Program version specified in the respective Programs column. The FW version must always be the same as the ones included in the corresponding Program version.	Private Cloud Appliance Management Software 2.4.4 (Oracle VM Server) (Required)	Private Cloud Appliance Management Software 2.4.3 (Oracle VM Server) (Required)
	X9-2		*OVM version is determined by Private Cloud Appliance Program version specified in the respective Programs column. The OVM version must always be the same as the Program version			Private Cloud Appliance Management Software 2.4.4 (Oracle VM Server) (Required)
X9-2	X9-2	Integrated ZS9 (with dual controllers) Additional External Storage (Optional)	Oracle Linux* (Required)	FW version is determined by Oracle Private Cloud Appliance Program version specified in the respective Programs column. The FW version must always be the same as the ones included in the corresponding Program version.	Private Cloud Appliance Management Software 3.0.1.1 (Required)	Private Cloud Appliance Management Software 3.0.1.1 (Required)

⁷ Oracle Private Cloud Appliances which are implemented on Platinum Services cannot be used as a gateway host or for non-Oracle monitoring.

⁸ Oracle Private Cloud Appliances which are implemented on Platinum Services cannot be used to host customer-installed ASR Manager for monitoring non-certified Platinum Configurations.