ORACLE
EXADATA

Installation Template

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Customer Name :	▮▮▮▮▮▮
Application :	**2445XV8080**
Name Prefix :	**exa4**
Network Domain :	**prod.d002.loc**
DNS Servers :	**10.25.64.48** **10.5.5.5** **10.5.15.5**
NTP Servers :	**10.2.128.20** **10.2.128.21**
Timezone :	▮
Comments :	**version: 20250422 - regenerated with OEDA Version: 250313**

Management Network Configuration

All IP addresses and corresponding host names should be registered in DNS
The Admin network defines the hostname and default gateway for all Storage nodes

Starting IP Address : **10.25.96.68**
Subnet Mask : **255.255.248.0**
Gateway : **10.25.96.1**
Admin Network Type : **1/10Gbit Copper Non-Bonded**

Server Components

Rack U Location X10M Elastic Rack HC 22TB	Component	NET0 Name	NET0 IP Address	ILOM Name	ILOM IP Address	NET0 VLAN ID
16	Database Server	exa4dbadm02	10.25.99.80	exa4dbadm02-ilom	10.25.99.68	
14	Database Server	exa4dbadm01	10.25.99.79	exa4dbadm01-ilom	10.25.99.69	
8	Storage Server	exa4celadm04	10.25.99.84	exa4celadm04-ilom	10.25.99.73	
6	Storage Server	exa4celadm03	10.25.99.83	exa4celadm03-ilom	10.25.99.72	
4	Storage Server	exa4celadm02	10.25.99.82	exa4celadm02-ilom	10.25.99.71	
2	Storage Server	exa4celadm01	10.25.99.81	exa4celadm01-ilom	10.25.99.70	

Switch and Power Components

Rack U Location X10M Elastic Rack HC 22TB	Component	Admin Name	Admin IP Address
22	Leaf Switch	exa4sw-roceb0	10.25.99.75
21	Admin Switch	exa4sw-adm0	10.25.99.78
20	Leaf Switch	exa4sw-rocea0	10.25.99.74
0	PDU Switch	exa4sw-pdua0	10.25.99.76
0	PDU Switch	exa4sw-pdub0	10.25.99.77

Client Access Network Configuration

All IP addresses and corresponding host names should be registered in DNS

Starting IP Address : **10.2.163.176**
Subnet Mask : **255.255.248.0**
Gateway : **10.2.160.1**
Client Network Type : **Slot 3 - Dual 25G CX6-LX optical Bonded**
Client Network Interface : **eth9,eth10**

LACP : **Enabled, please ensure switches support LACP and configured for LACP and aggregation**
BONDING_OPTS="mode=802.3ad miimon=100 downdelay=200 updelay=200 lacp_rate=1 xmit_hash_policy=layer3+4"

Rack U Location X10M Elastic Rack HC 22TB	Component	Client Name	Client IP Address	VIP Name	VIP IP Address	VLAN ID
16	Database Server	exa4db02	10.2.163.177	exa4db02-vip	10.2.163.179	2191
14	Database Server	exa4db01	10.2.163.176	exa4db01-vip	10.2.163.178	2191

Private RoCE Network Configuration

Starting IP Address : **192.168.10.1**
Subnet Mask : **255.255.252.0**

Rack U Location X10M Elastic Rack HC 22TB	Component	Private network Name	Private IP Address
16	Database Server	exa4db02-priv1 exa4db02-priv2	192.168.10.3 192.168.10.4
14	Database Server	exa4db01-priv1 exa4db01-priv2	192.168.10.1 192.168.10.2
8	Storage Server	exa4cel04-priv1 exa4cel04-priv2	192.168.10.11 192.168.10.12
6	Storage Server	exa4cel03-priv1 exa4cel03-priv2	192.168.10.9 192.168.10.10
4	Storage Server	exa4cel02-priv1 exa4cel02-priv2	192.168.10.7 192.168.10.8
2	Storage Server	exa4cel01-priv1 exa4cel01-priv2	192.168.10.5 192.168.10.6

Backup Network Configuration

Starting IP Address : **10.21.97.120**
Subnet Mask : **255.255.248.0**
Gateway : **10.21.96.1**
Backup Network Type : **Slot 8 - Dual 25G CX6-LX Optical Non-Bonded**
Backup Network Interface : **eth29,eth30**

LACP : **Enabled, please ensure switches support LACP and configured for LACP and aggregation**
BONDING_OPTS="mode=802.3ad miimon=100 downdelay=200 updelay=200 lacp_rate=1 xmit_hash_policy=layer3+4"

Rack U Location X10M Elastic Rack HC 22TB	Component	Backup Name	Backup IP Address	Backup VIP Name	Backup VIP Address	VLAN ID
16	Database Server	exa4db02s	10.21.97.121			2193
14	Database Server	exa4db01s	10.21.97.120			2193

Clusters Information

To ensure better data protection, Oracle requires databases to be configured with ASM High Redundancy on 5+ year old Exadata systems. Please refer to MOS Note:2075007.1 for additional details.

Cluster:Cluster-exa4

Cluster Information:

Version	23.6.0.24.10
Name	Cluster-exa4
Customer Name	▓▓▓▓▓
Application	2445XV8080
Home	/u01/app/23.0.0.0/grid
Inventory Location	/u01/app/oraInventory
Base Dir	/u01/app/oracle
Client Domain	prod.d002.loc
ASM-Scoped Security	false
Backup Location	
Backup Domain	prod.d002.loc
Client Scan Name	exa4-scan1
Client Scan Port	1521
Client Scan IPs	10.2.163.180
	10.2.163.181
	10.2.163.182
Total Physical Memory Size	2304GB
Client Gateway	10.2.160.1
Client Subnet Mask	255.255.248.0
	10.25.64.48
DNS Server(s)	10.5.5.5
	10.5.15.5
NTP Server(s)	10.2.128.20
	10.2.128.21
WriteBack Flash Cache	Enabled
Admin Network As Hostname	true
Admin Network As Gateway	false
Client Network As Hostname	false
Client Network As Gateway	true
Client Network LACP	true
Backup Network LACP	true

Cluster Owner and Groups

Cluster User	User Id	Groups			Home Directory
		Name	Id	Type	
oracle	1001	oinstall	1002	OINSTALLGROUP	/home/oracle
		dba	1001	DBA_GROUP	

Database:

Version	23.6.0.24.10
CDB Name	cdb1
PDB Name	pdb1
Database Home	/u01/app/oracle/product/23.0.0.0/dbhome_1
Inventory Location	/u01/app/oraInventory
Block Size	8192
Database Template	OLTP
Database Type	RAC Database
Character Sets	AL32UTF8
Base Dir	/u01/app/oracle
Database Machines	exa4dbadm01.prod.d002.loc
	exa4dbadm02.prod.d002.loc

Database Owner and Groups

User	ID	Groups			Home Directory
		Name	Id	Type	
oracle	1001	oinstall	1002	OINSTALLGROUP	/home/oracle
		dba	1001	DBA_GROUP	

Database:

Version	19.25.0.0.241015
CDB Name	cdb2
PDB Name	pdb1
Database Home	/u01/app/oracle/product/19.0.0.0/dbhome_1
Inventory Location	/u01/app/oraInventory
Block Size	8192
Database Template	OLTP
Database Type	RAC Database
Character Sets	AL32UTF8
Base Dir	/u01/app/oracle
Database Machines	exa4dbadm01.prod.d002.loc
	exa4dbadm02.prod.d002.loc

Database Owner and Groups

User	ID	Groups			Home Directory
		Name	Id	Type	
oracle	1001	oinstall	1002	OINSTALLGROUP	/home/oracle
		dba	1001	DBA_GROUP	

Storage:

ASM Disk Groups

Disk Group Name	Redundancy	Storage Allocation	Type	OCR/Vote	Quorum	Storage Servers
DATAC1	NORMAL	393389 GB (80%)	DATA	Yes	No	exa4celadm01 exa4celadm02 exa4celadm03 exa4celadm04
RECOC1	NORMAL	98347 GB (20%)	RECO	No	No	exa4celadm01 exa4celadm02 exa4celadm03 exa4celadm04

Storage Servers

Storage Server Name	# of Disks	Total Disk Space (GB)
exa4celadm01	12	264000
exa4celadm02	12	264000
exa4celadm03	12	264000
exa4celadm04	12	264000

Rack Machines Overview

X10M Elastic Rack HC 22TB

Machine Type	Serial Number	Rack Position	Server Name	Mgt Name IP Netmask Bonded	Public Hostname IP Netmask Bonded	Private Name IP Netmask Bonded	ILOM Hostname IP Netmask	VIP Name IP
Leaf Switch	N/A	22		exa4sw-roceb0 10.25.99.75 255.255.248.0 No	N/A	N/A	N/A	N/A
Admin Switch	N/A	21		exa4sw-adm0 10.25.99.78 255.255.248.0 No	N/A	N/A	N/A	N/A
Leaf Switch	N/A	20		exa4sw-rocea0 10.25.99.74 255.255.248.0 No	N/A	N/A	N/A	N/A
Database Server X10M Compute Node Linux x86-64	N/A	16	exa4dbadm02	exa4dbadm02 10.25.99.80 255.255.248.0 No	exa4db02 10.2.163.177 255.255.248.0 Yes	exa4db02-priv1 192.168.10.3 exa4db02-priv2 192.168.10.4 255.255.252.0 Active-Active	exa4dbadm02-ilom 10.25.99.68 255.255.248.0	exa4db02-vip 10.2.163.179
Database Server X10M Compute Node Linux x86-64	N/A	14	exa4dbadm01	exa4dbadm01 10.25.99.79 255.255.248.0 No	exa4db01 10.2.163.176 255.255.248.0 Yes	exa4db01-priv1 192.168.10.1 exa4db01-priv2 192.168.10.2 255.255.252.0 Active-Active	exa4dbadm01-ilom 10.25.99.69 255.255.248.0	exa4db01-vip 10.2.163.178
Storage Server X10M Cell Node HC 22TB Linux x86-64	N/A	8	exa4celadm04	exa4celadm04 10.25.99.84 255.255.248.0 No	N/A	exa4cel04-priv1 192.168.10.11 exa4cel04-priv2 192.168.10.12 255.255.252.0 Active-Active	exa4celadm04-ilom 10.25.99.73 255.255.248.0	N/A
Storage Server X10M Cell Node HC 22TB Linux x86-64	N/A	6	exa4celadm03	exa4celadm03 10.25.99.83 255.255.248.0 No	N/A	exa4cel03-priv1 192.168.10.9 exa4cel03-priv2 192.168.10.10 255.255.252.0 Active-Active	exa4celadm03-ilom 10.25.99.72 255.255.248.0	N/A
Storage Server X10M Cell Node HC 22TB Linux x86-64	N/A	4	exa4celadm02	exa4celadm02 10.25.99.82 255.255.248.0 No	N/A	exa4cel02-priv1 192.168.10.7 exa4cel02-priv2 192.168.10.8 255.255.252.0 Active-Active	exa4celadm02-ilom 10.25.99.71 255.255.248.0	N/A
Storage Server X10M Cell Node HC 22TB Linux x86-64	N/A	2	exa4celadm01	exa4celadm01 10.25.99.81 255.255.248.0 No	N/A	exa4cel01-priv1 192.168.10.5 exa4cel01-priv2 192.168.10.6 255.255.252.0 Active-Active	exa4celadm01-ilom 10.25.99.70 255.255.248.0	N/A
PDU Switch	N/A	0		exa4sw-pdua0 10.25.99.76 255.255.248.0 No	N/A	N/A	N/A	N/A
PDU Switch	N/A	0		exa4sw-pdub0 10.25.99.77 255.255.248.0 No	N/A	N/A	N/A	N/A

Platinum Configuration

Unavailable for configuration because it is disabled

Alerts

Cell Alert Delivery Configuration

SNMP Server	**N/A**
SNMP Port	**N/A**
SNMP Community	**N/A**

SMTP Server	**smtplb.prod.d002.loc**
SMTP Port	**25**
SSL	**FALSE**
Email(s) to	**fp_bi-betrieb@**▮▮▮▮▮ **horst.pfitzner@**▮▮▮▮▮
Email From	**fp_bi-betrieb@**▮▮▮▮▮
From Name	**Exadata EXA4**

ASR Configuration

ASR Manager Hostname	**anopfli27044523.prod.d002.loc**
ASR Technical Contact Name	**Horst Pfitzner**
MOS Contact Email	**horst.pfitzner@**▮▮▮▮▮
MOS Account Name	**horst.pfitzner@**▮▮▮▮▮
HTTP Proxy Server	**N/A**
HTTP Proxy Port	**80**
HTTP Proxy User	**N/A**

OCM Configuration

MOS Email	**N/A**
Support Hub Host Name	**N/A**
Support Hub User Name	**N/A**
HTTP Proxy Server	**N/A**
HTTP Proxy Port	**N/A**
HTTP Proxy User	**N/A**

EM Configuration

EM Home base	**N/A**
OMS Machine	**N/A**
OMS HTTP Upload port	**N/A**

Appendix A: Network Names and IPs

Total Network IPs: 38

Admin Network: (11)

IP Address	FQDN	Short Hostname
10.25.99.79/21	exa4dbadm01.prod.d002.loc	exa4dbadm01
10.25.99.80/21	exa4dbadm02.prod.d002.loc	exa4dbadm02
10.25.99.81/21	exa4celadm01.prod.d002.loc	exa4celadm01
10.25.99.82/21	exa4celadm02.prod.d002.loc	exa4celadm02
10.25.99.83/21	exa4celadm03.prod.d002.loc	exa4celadm03
10.25.99.84/21	exa4celadm04.prod.d002.loc	exa4celadm04
10.25.99.78/21	exa4sw-adm0.prod.d002.loc	exa4sw-adm0
10.25.99.74/21	exa4sw-rocea0.prod.d002.loc	exa4sw-rocea0
10.25.99.75/21	exa4sw-roceb0.prod.d002.loc	exa4sw-roceb0
10.25.99.76/21	exa4sw-pdua0.prod.d002.loc	exa4sw-pdua0
10.25.99.77/21	exa4sw-pdub0.prod.d002.loc	exa4sw-pdub0

ILOM Network: (6)

IP Address	FQDN	Short Hostname
10.25.99.69/21	exa4dbadm01-ilom.prod.d002.loc	exa4dbadm01-ilom
10.25.99.68/21	exa4dbadm02-ilom.prod.d002.loc	exa4dbadm02-ilom
10.25.99.70/21	exa4celadm01-ilom.prod.d002.loc	exa4celadm01-ilom
10.25.99.71/21	exa4celadm02-ilom.prod.d002.loc	exa4celadm02-ilom
10.25.99.72/21	exa4celadm03-ilom.prod.d002.loc	exa4celadm03-ilom
10.25.99.73/21	exa4celadm04-ilom.prod.d002.loc	exa4celadm04-ilom

Client Network: (2)

IP Address	FQDN	Short Hostname	VLAN ID
10.2.163.176/21	exa4db01.prod.d002.loc	exa4db01	2191
10.2.163.177/21	exa4db02.prod.d002.loc	exa4db02	2191

VIP Network: (2)

IP Address	FQDN	Short Hostname	VLAN ID
10.2.163.178/21	exa4db01-vip.prod.d002.loc	exa4db01-vip	2191
10.2.163.179/21	exa4db02-vip.prod.d002.loc	exa4db02-vip	2191

Client SCAN IPs: (3)

IP Address	FQDN	Short Hostname
10.2.163.180	exa4-scan1.prod.d002.loc	exa4-scan1
10.2.163.181	exa4-scan1.prod.d002.loc	exa4-scan1
10.2.163.182	exa4-scan1.prod.d002.loc	exa4-scan1

Private Network: (12)

IP Address	FQDN	Short Hostname
192.168.10.1/22	exa4db01-priv1.prod.d002.loc	exa4db01-priv1
192.168.10.2/22	exa4db01-priv2.prod.d002.loc	exa4db01-priv2
192.168.10.3/22	exa4db02-priv1.prod.d002.loc	exa4db02-priv1
192.168.10.4/22	exa4db02-priv2.prod.d002.loc	exa4db02-priv2
192.168.10.5/22	exa4cel01-priv1.prod.d002.loc	exa4cel01-priv1
192.168.10.6/22	exa4cel01-priv2.prod.d002.loc	exa4cel01-priv2
192.168.10.7/22	exa4cel02-priv1.prod.d002.loc	exa4cel02-priv1
192.168.10.8/22	exa4cel02-priv2.prod.d002.loc	exa4cel02-priv2
192.168.10.9/22	exa4cel03-priv1.prod.d002.loc	exa4cel03-priv1
192.168.10.10/22	exa4cel03-priv2.prod.d002.loc	exa4cel03-priv2
192.168.10.11/22	exa4cel04-priv1.prod.d002.loc	exa4cel04-priv1
192.168.10.12/22	exa4cel04-priv2.prod.d002.loc	exa4cel04-priv2

Backup Network: (2)

IP Address	FQDN	Short Hostname	VLAN ID
10.21.97.120/21	exa4db01s.prod.d002.loc	exa4db01s	2193
10.21.97.121/21	exa4db02s.prod.d002.loc	exa4db02s	2193

Backup SCAN IPs: (0)

No Data

Appendix B: Required Files and Patches

Download the following files from MOS into the Oracle Exadata Deployment Assistant's WorkDir directory

p37173338_23602410GIRU_Linux-x86-64.zip
p37173344_23602410DBRU_Linux-x86-64.zip
p37173404_1925000DBRU_Linux-x86-64.zip
ahf_setup (Autonomous Health Framework setup file)

Please download Autonomous Health Framework (AHF) setup file from My Oracle Support using patch number 30166242 and unzip the file into Workdir.
If a patch is unavailable on MOS for a given release, please contact Oracle Support to request the patch for that release.
If the host image version is 19.3.0.0.0, please upgrade to image version greater than 19.3.0.0.0.
Secure Fabric requires Exadata image version 20.1.0.0.0 or newer.

Hardware and Software Engineered to Work Together