An 18 pointers guide to setting up an Exadata machine

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who am i

- DBA with 13 years of experience
- Working with Oracle ACS
- http://amardeepsidhu.com/blog
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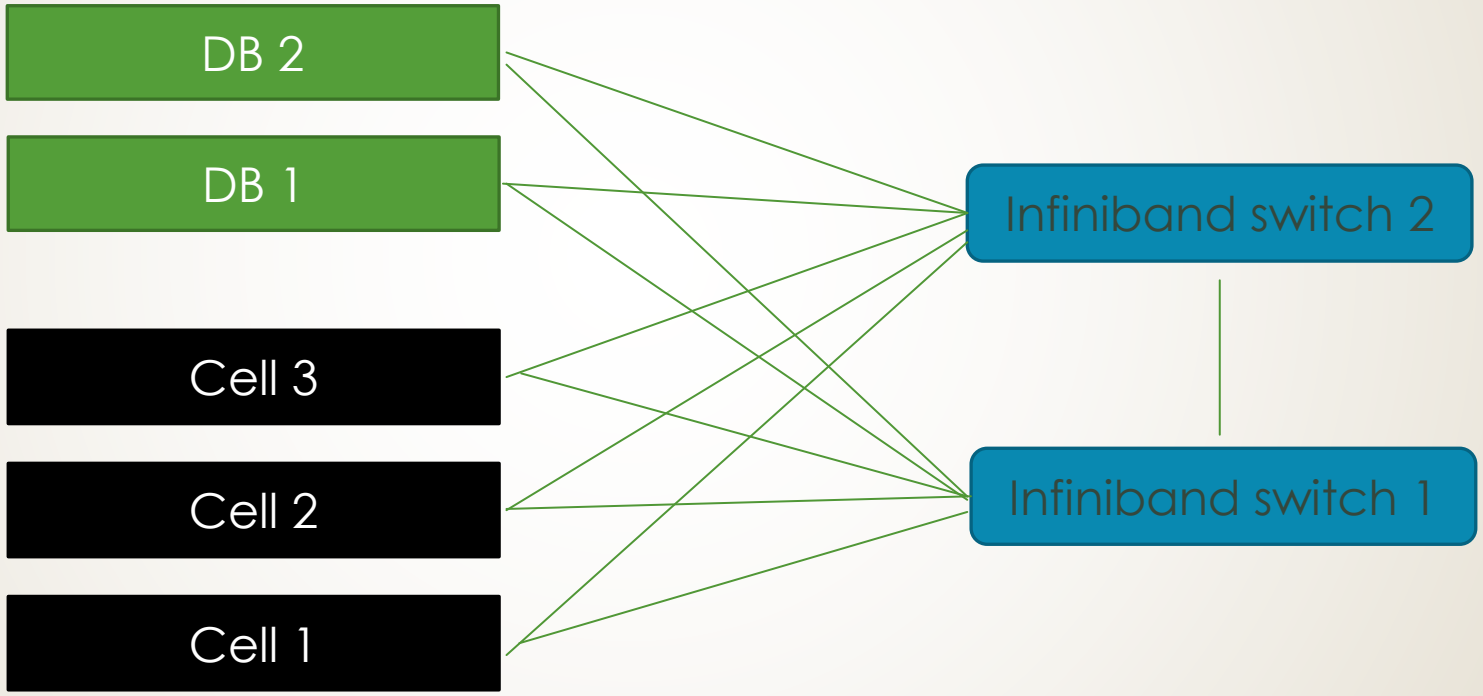
Disclaimer

- This is my understanding of the things
- I don’t know “everything”
- I could be wrong

Basics

- Comes as a single physical rack
- An Engineered system – All components tested together
- Optimized for running Oracle databases
- Comprises of Compute servers, Storage servers, Infiniband switches, Cisco switch and PDUs
- Can have standard configurations like eighth, quarter, half, full rack.
- Can have flex configuration also (any number of compute and storage servers).
- Can be expanded by adding more Computer servers & Storage servers

Basics contd.



Deployment process

- Order is placed
- Hardware is received
- Fill the details in OEDA (MOS note 888828.1) and generate the configuration files.
- Hostnames & IPs entries in the DNS
- Run checkip script and validate the output
- Deployment is started

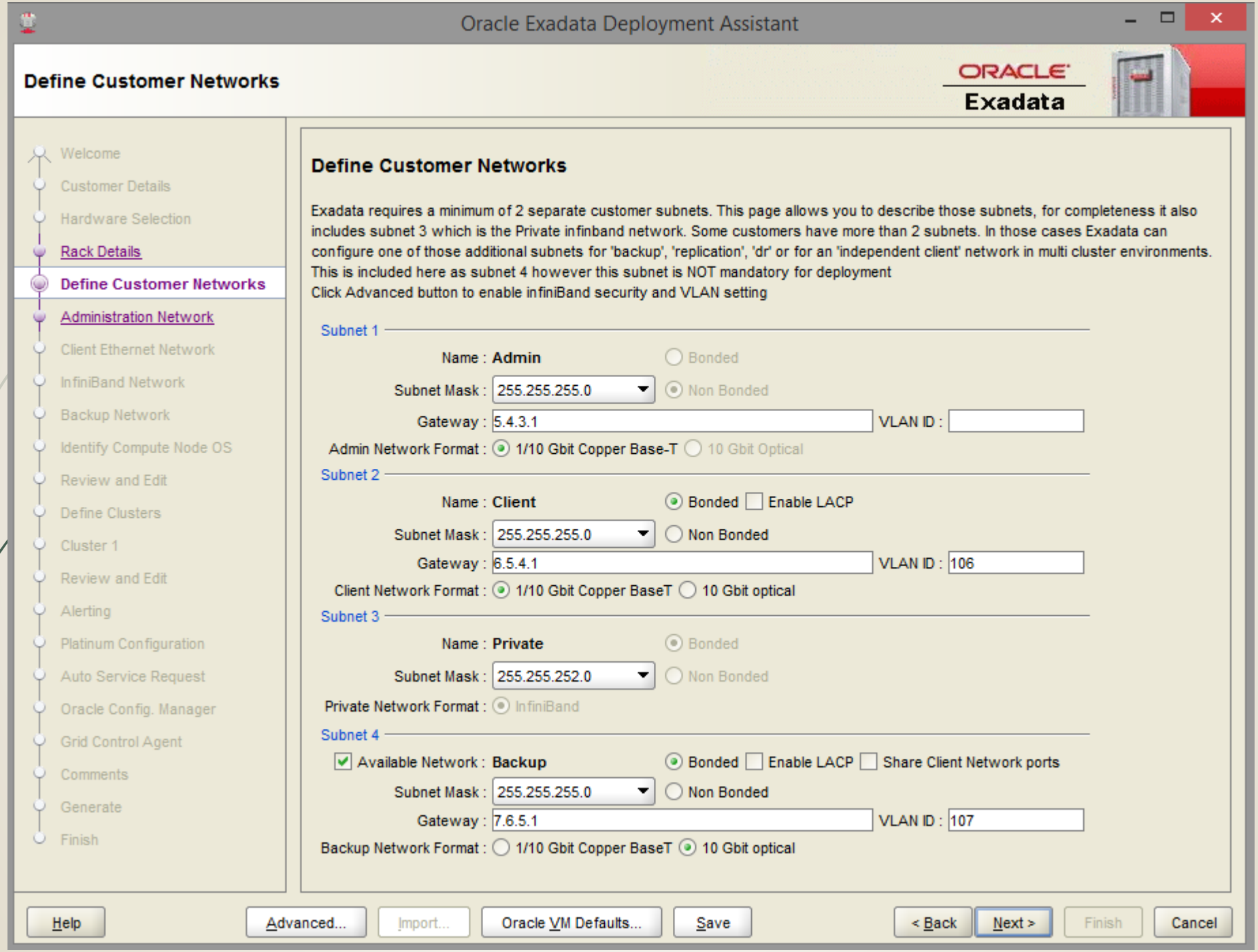
Networks

Traditional

- Public network
- Private network

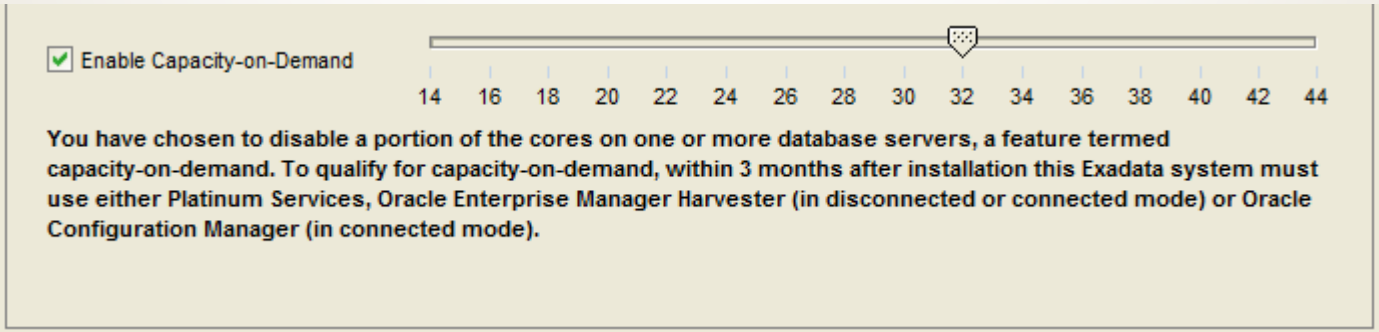
Exadata

- Management network
- Client/Public network
  - 1G/10G
  - Active-Passive/LACP
  - VLAN Tagging
- Private network
  - Infiniband security
- Backup network (optional)


Oracle Exadata Deployment Assistant
Define Customer Networks
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Client Ethernet Network
InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Define Customer Networks
Exadata requires a minimum of 2 separate customer subnets. This page allows you to describe those subnets, for completeness it also includes subnet 3 which is the Private infinband network. Some customers have more than 2 subnets. In those cases Exadata can configure one of those additional subnets for 'backup', 'replication', 'dr' or for an 'independent client' network in multi cluster environments. This is included here as subnet 4 however this subnet is NOT mandatory for deployment
Click Advanced button to enable infiniBand security and VLAN setting
Subnet 1
Name : Admin
Bonded
Subnet Mask : 255.255.255.0
Non Bonded
Gateway : 5.4.3.1
VLAN ID :
Admin Network Format : 1/10 Gbit Copper Base-T
10 Gbit Optical
Subnet 2
Name : Client
Bonded
Enable LACP
Subnet Mask : 255.255.255.0
Non Bonded
Gateway : 6.5.4.1
VLAN ID : 106
Client Network Format : 1/10 Gbit Copper BaseT
10 Gbit optical
Subnet 3
Name : Private
Bonded
Subnet Mask : 255.255.252.0
Non Bonded
Private Network Format : InfiniBand
Subnet 4
Available Network : Backup
Bonded
Enable LACP
Share Client Network ports
Subnet Mask : 255.255.255.0
Non Bonded
Gateway : 7.6.5.1
VLAN ID : 107
Backup Network Format : 1/10 Gbit Copper BaseT
10 Gbit optical
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel

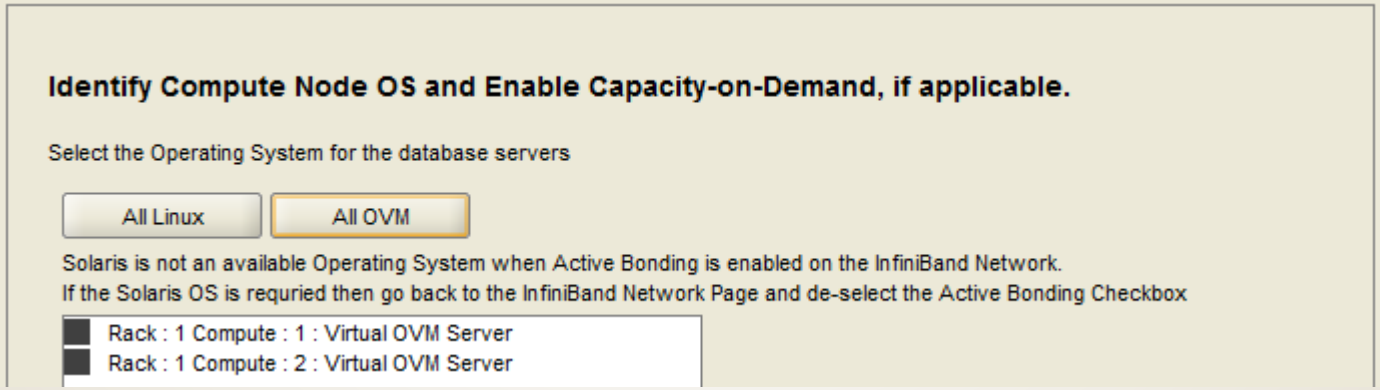
Licensed cores

- Enable only the number of cores that you are licensed for
- More cores can be enabled later if you procure the licenses
- Number of cores enabled can't be decreased
- May result in licensing violation



OVM

- Virtualize compute nodes. Storage cells aren't virtualized.
- Allows you to create multiple VMs hence multiple RAC clusters
- Can isolate Prod and Dev/Test environments
- Different environments can use different subnets for client network
- Infiniband security can be used to segregate private traffic



Flashcache mode

- Writethrough – Reads go to flash, writes go to disk
- Writeback – Both reads and writes go to flash, Redundancy maintained in flash until blocks are written to disk
- Applications doing small writes e.g. OLTP ones may benefit from Writeback mode

GI & DB version

- What is the minimum Database version you need to run ?
- Take care of compatible.rdbms
- Can you run GI at the latest available version ? Saves you the upgrade efforts later.
- What are the patch levels needed for GI & DB homes ?

Image version

- Generally deployed with latest available version
- Any specific reasons to have the lower version ?
- Is the system going to be part of any Primary/Standby configuration ?
- Is the system going to be part of any multiracked configuration ?

Diskgroups

- 3 Diskgroups created in the standard install (DATA, RECO & DBFS)
- Decide the Diskgroup names
- Decide the sizing (DBFS size is fixed)
- Decide the redundancy. Changing redundancy means drop/recreate
- Need Sparse Diskgroup ? May need a minimum GI/DB version

Multiracking scenario

- Multiple Engineered systems connected over Infiniband
- Each Engineered system should have unique set of private IPs
- Infiniband switch firmware versions should be considered
- Best to multirack during deployment phase itself
- Doing it later may involve downtime
- Order required cables with the machine

Split rack scenario

- Applies where you have 4 or more db nodes and 6 or more cells
- Each RAC cluster has its own dedicated physical db nodes and cells
- Infiniband fabric is shared
- Can be used for isolation of environments

Other customizations in OEDA

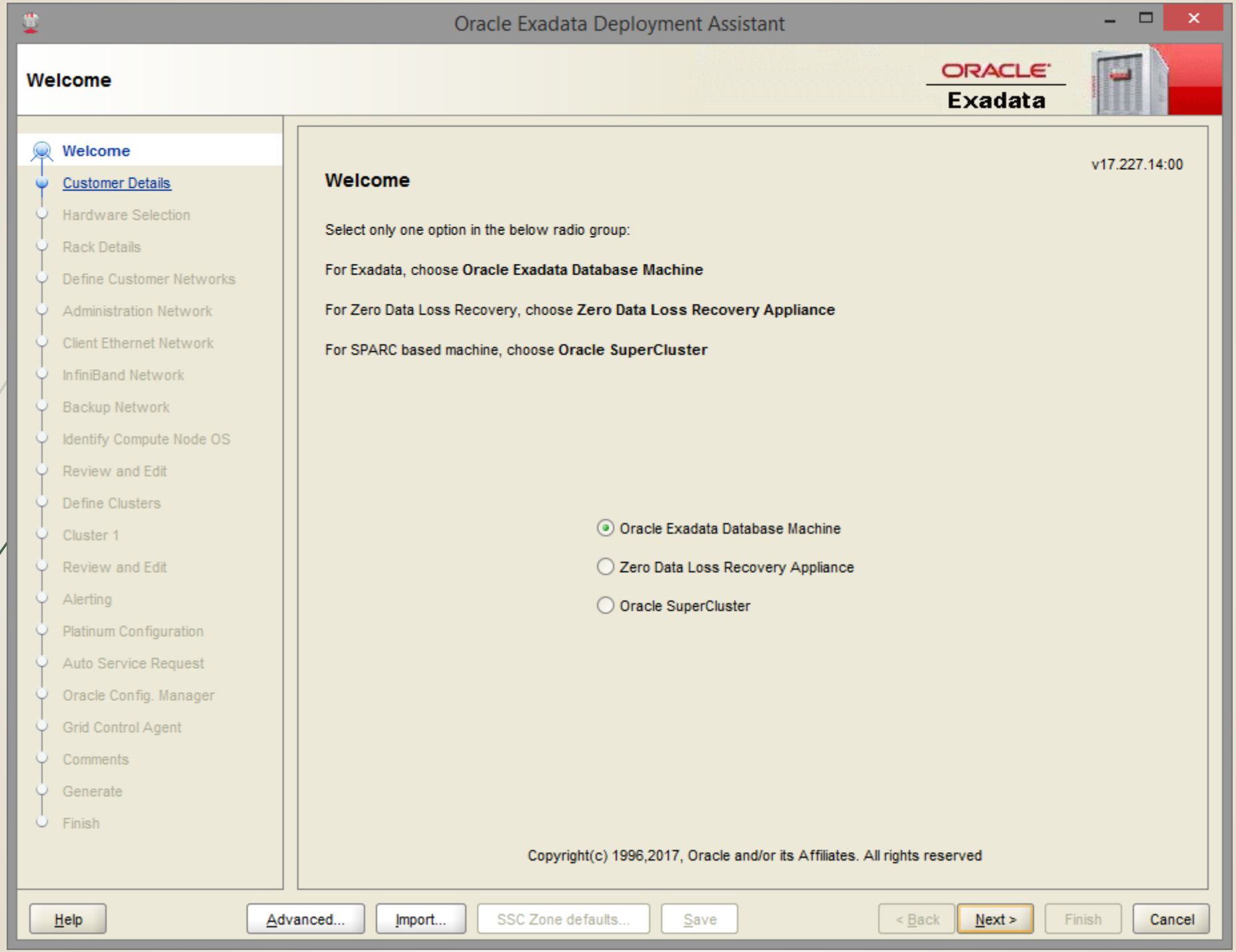
- Hostnames
- VIP names
- Scan name and port
- Non contiguous IPs
- Cores and memory allocation in VMs

Others

- Check if you are licensed for RAC; If not disable RAC mode
- Use Infiniband listener if application runs on Exalogic/SuperCluster/Exalytics

References

- MOS Note 888828.1
- Exadata documentation https://docs.oracle.com/cd/E80920_01/index.htm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ORACLE
Exadata
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InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
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Platinum Configuration
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Oracle Config. Manager
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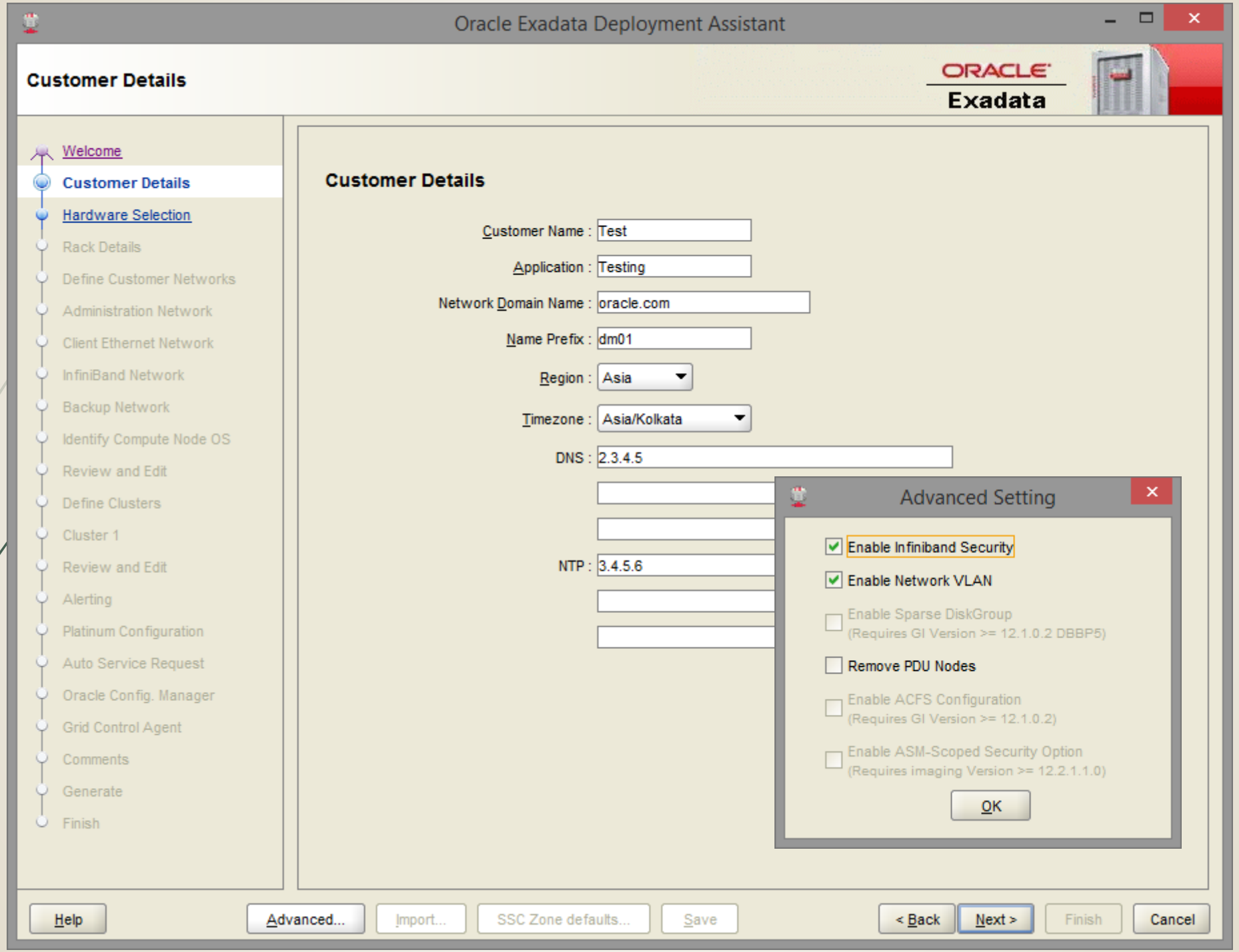
Comments
Generate
Finish
v17.227.14:00
Welcome
Select only one option in the below radio group:
For Exadata, choose Oracle Exadata Database Machine
For Zero Data Loss Recovery, choose Zero Data Loss Recovery Appliance
For SPARC based machine, choose Oracle SuperCluster
Oracle Exadata Database Machine
Zero Data Loss Recovery Appliance
Oracle SuperCluster
Copyright(c) 1996,2017, Oracle and/or its Affiliates. All rights reserved
Help
Advanced...
Import...
SSC Zone defaults...
Save
< Back
Next >
Finish
Cancel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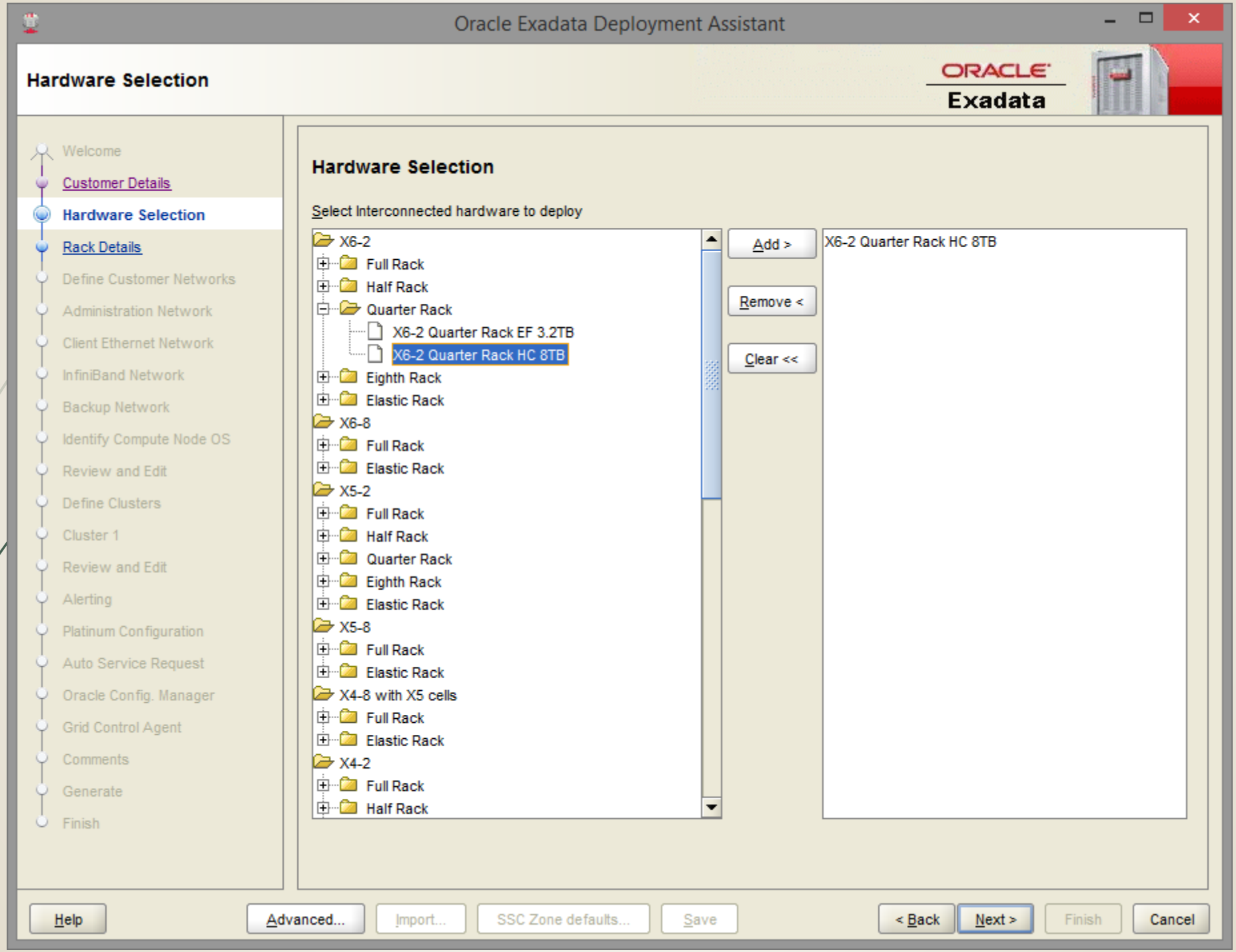
Grid Control Agent
Comments
Generate
Finish
Customer Details
Customer Name : Test
Application : Testing
Network Domain Name : oracle.com
Name Prefix : dm01
Region : Asia
Timezone : Asia/Kolkata
DNS : 2.3.4.5
NTP : 3.4.5.6
Advanced Setting
Enable Infiniband Security
Enable Network VLAN
Enable Sparse DiskGroup
(Requires GI Version >= 12.1.0.2 DBBP5)
Remove PDU Nodes
Enable ACFS Configuration
(Requires GI Version >= 12.1.0.2)
Enable ASM-Scoped Security Option
(Requires imaging Version >= 12.2.1.1.0)
OK
Help
Advanced...
Import...
SSC Zone defaults...
Save
< Back
Next >
Finish
Cancel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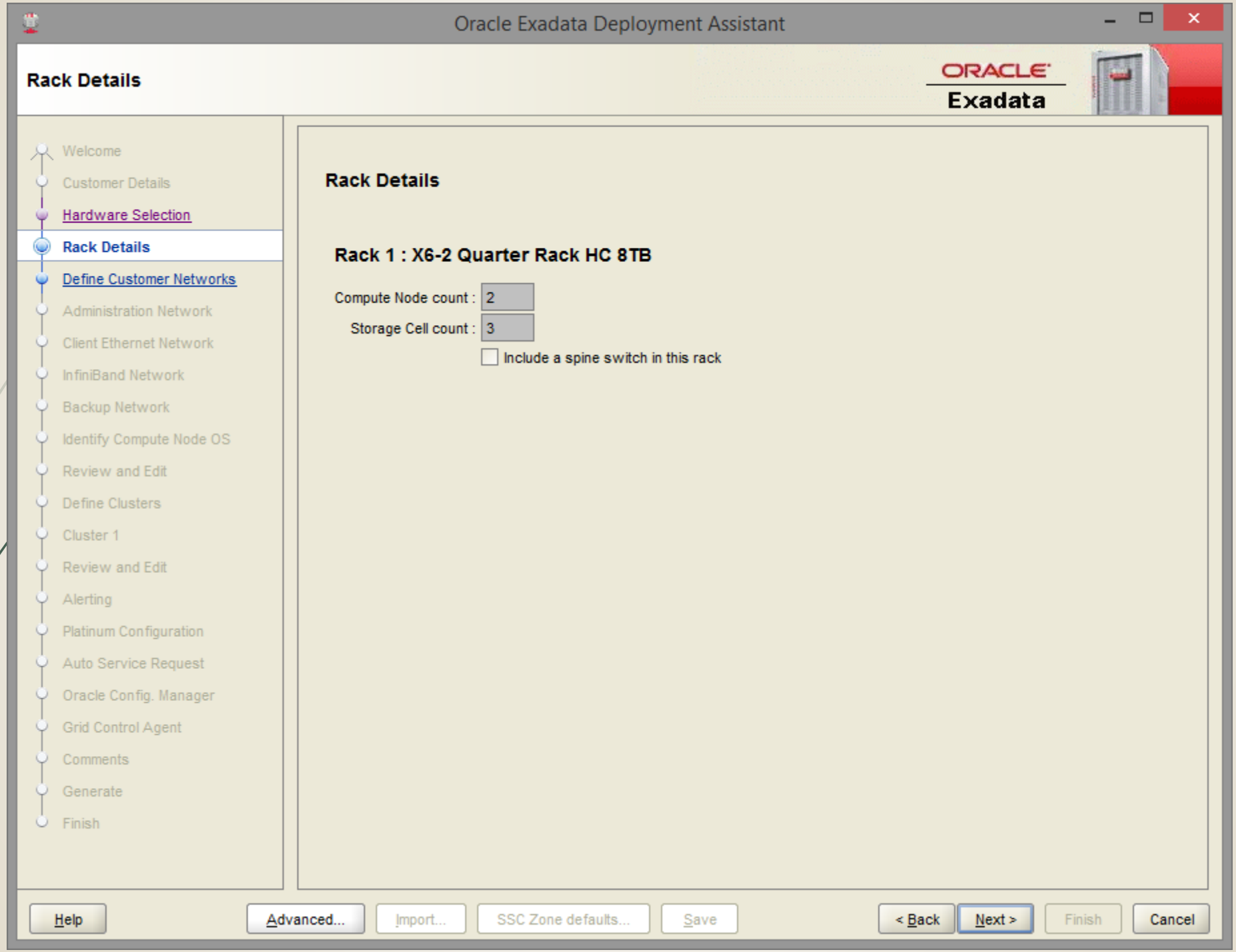
Finish
Hardware Selection
Select Interconnected hardware to deploy
X6-2
Full Rack
Half Rack
Quarter Rack
X6-2 Quarter Rack EF 3.2TB
X6-2 Quarter Rack HC 8TB
Eighth Rack
Elastic Rack
X6-8
Full Rack
Elastic Rack
X5-2
Full Rack
Half Rack
Quarter Rack
Eighth Rack
Elastic Rack
X5-8
Full Rack
Elastic Rack
X4-8 with X5 cells
Full Rack
Elastic Rack
X4-2
Full Rack
Half Rack
Add >
Remove <
Clear <<
X6-2 Quarter Rack HC 8TB
Help
Advanced...
Import...
SSC Zone defaults...
Save
< Back
Next >
Finish
Cancel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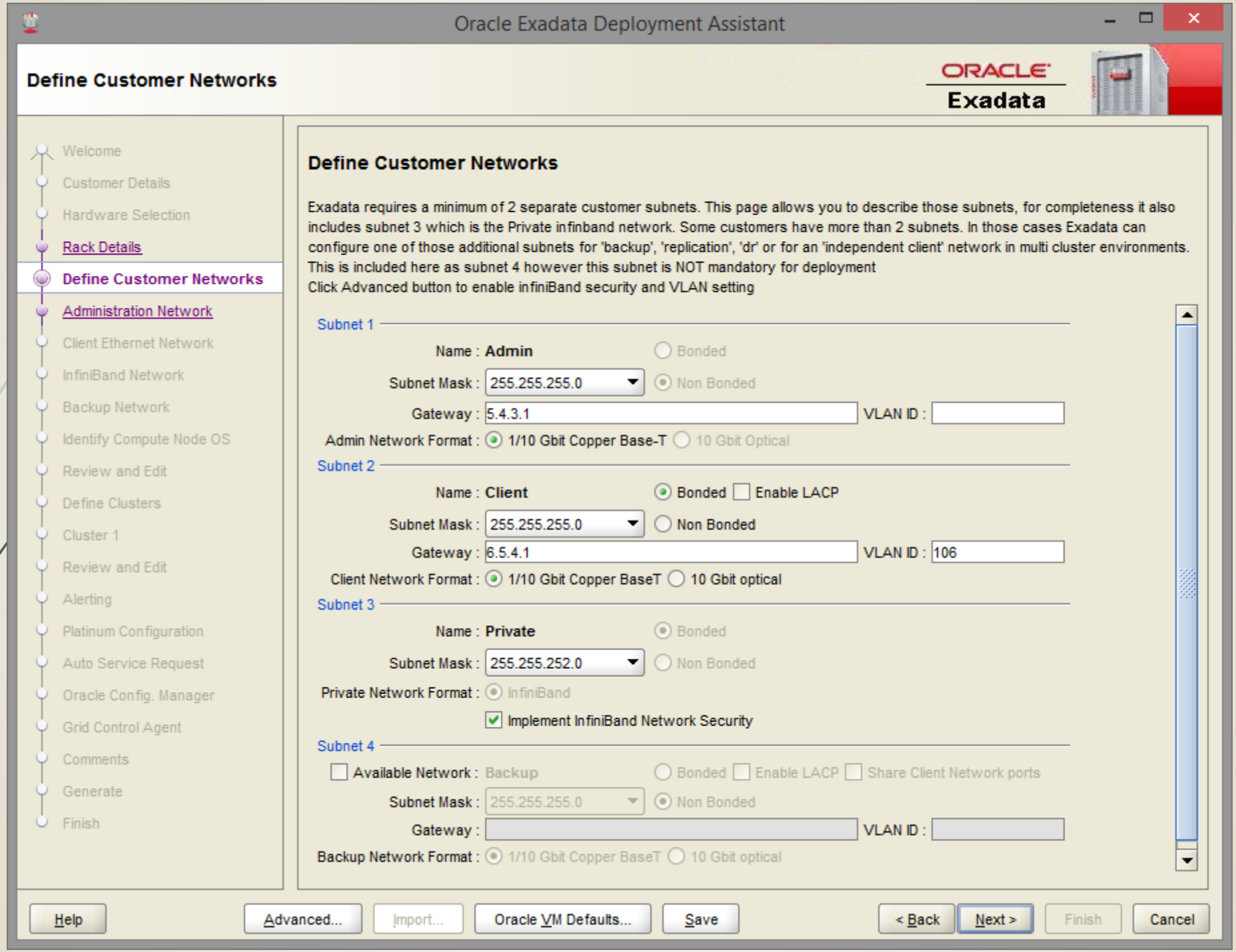
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Rack Details
Rack 1 : X6-2 Quarter Rack HC 8TB
Compute Node count : 2
Storage Cell count : 3
Include a spine switch in this rack
Help
Advanced...
Import...
SSC Zone defaults...
Save
< Back
Next >
Finish
Cancel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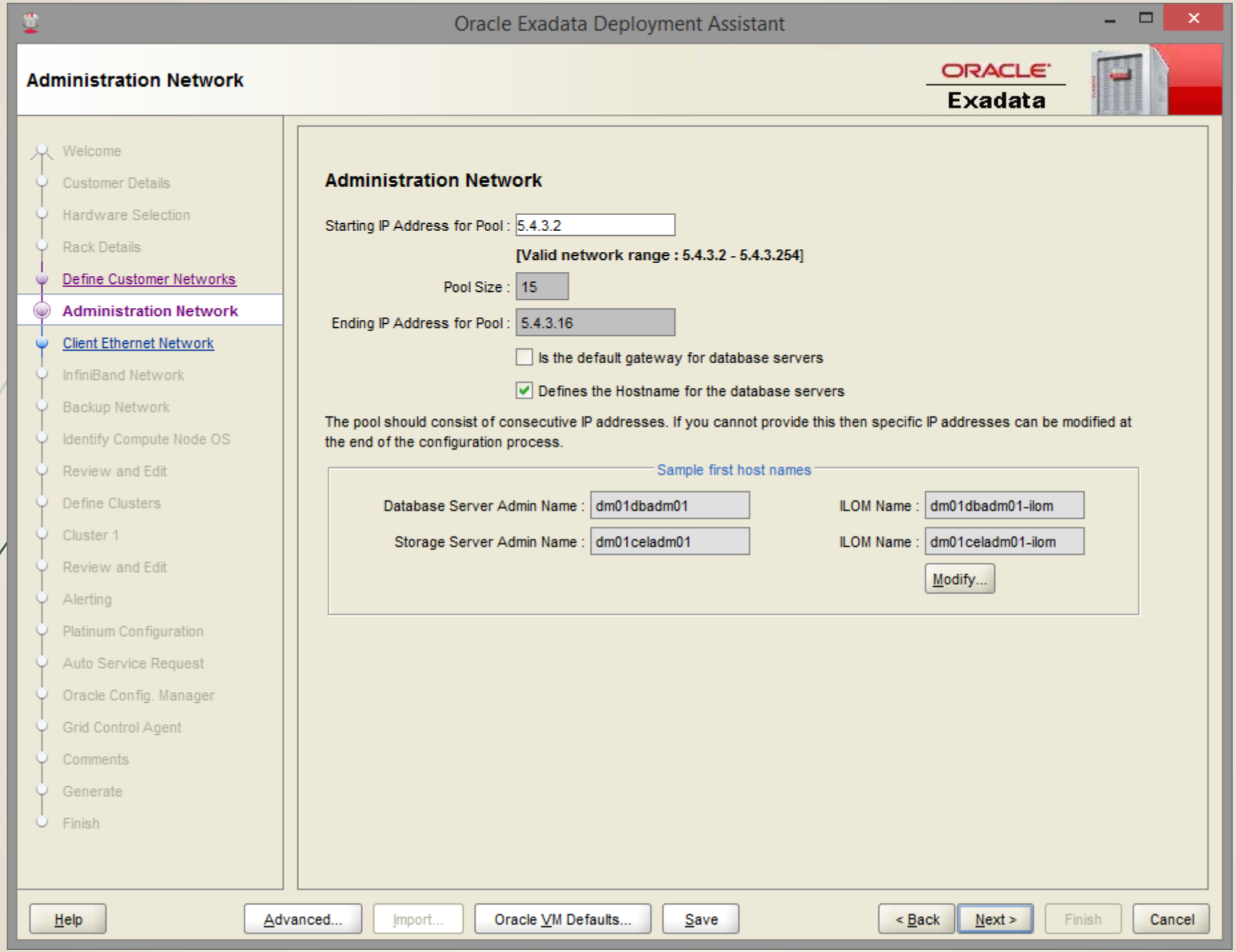
Click Advanced button to enable infiniBand security and VLAN setting
Subnet 1
Name : Admin
Bonded
Subnet Mask : 255.255.255.0
Non Bonded
Gateway : 5.4.3.1
VLAN ID :
Admin Network Format : 1/10 Gbit Copper Base-T
10 Gbit Optical
Subnet 2
Name : Client
Bonded
Enable LACP
Subnet Mask : 255.255.255.0
Non Bonded
Gateway : 6.5.4.1
VLAN ID : 106
Client Network Format : 1/10 Gbit Copper BaseT
10 Gbit optical
Subnet 3
Name : Private
Bonded
Subnet Mask : 255.255.252.0
Non Bonded
Private Network Format : InfiniBand
Implement InfiniBand Network Security
Subnet 4
Available Network : Backup
Bonded
Enable LACP
Share Client Network ports
Subnet Mask : 255.255.255.0
Non Bonded
Gateway :
VLAN ID :
Backup Network Format : 1/10 Gbit Copper BaseT
10 Gbit optical
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel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Platinum Configuration
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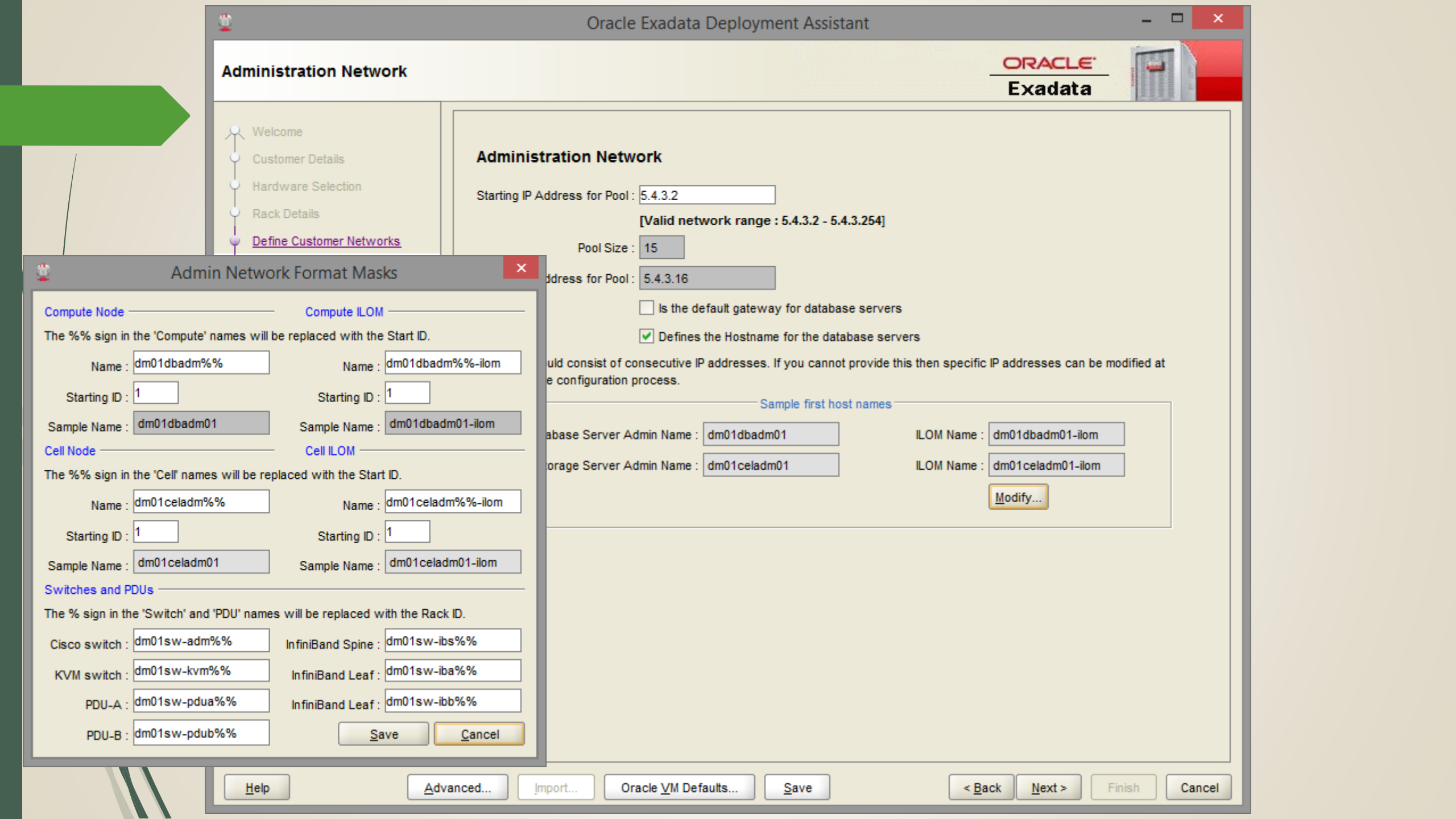
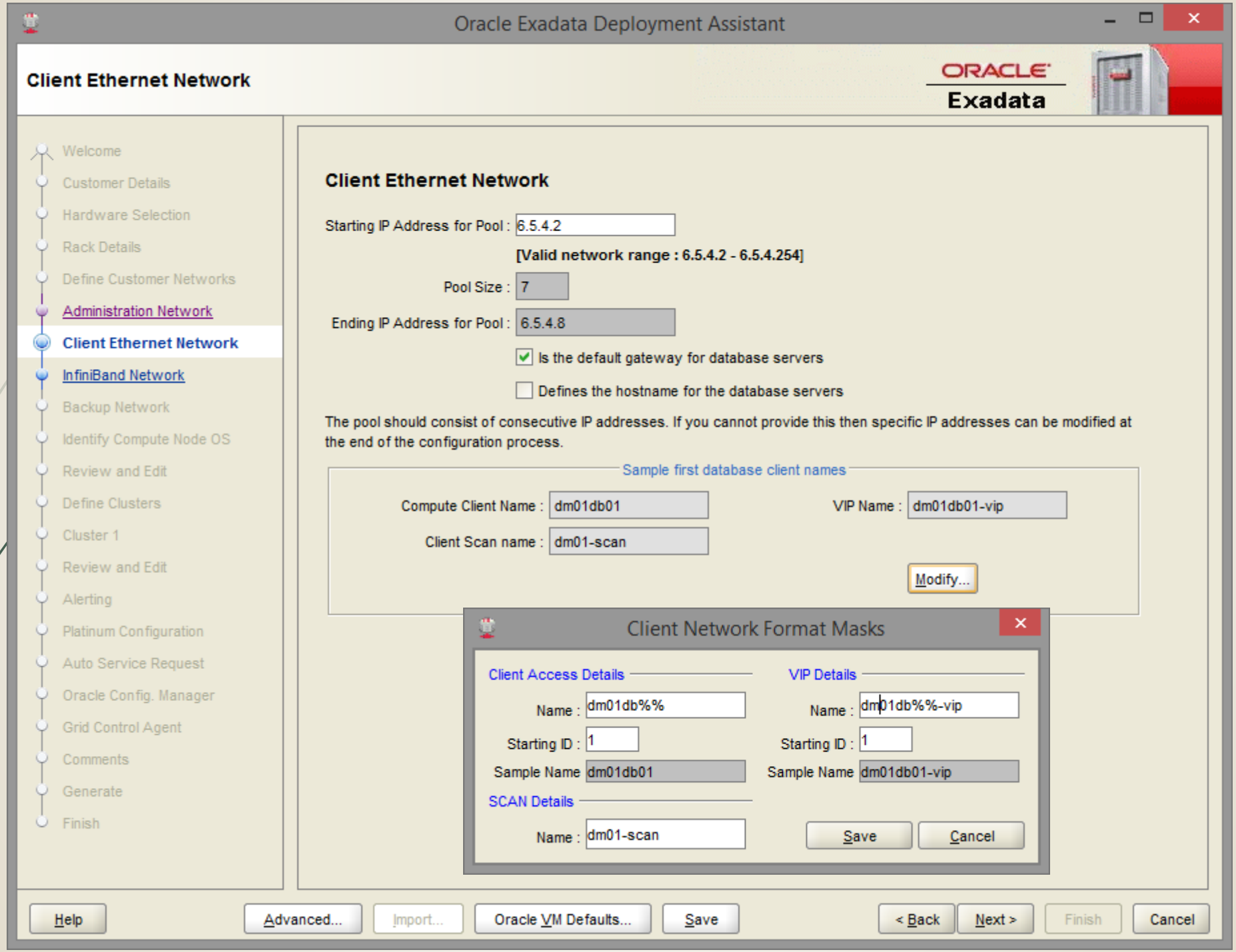
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Administration Network
Starting IP Address for Pool : 5.4.3.2
[Valid network range : 5.4.3.2 - 5.4.3.254]
Pool Size : 15
Ending IP Address for Pool : 5.4.3.16
Is the default gateway for database servers
Defines the Hostname for the database servers
The pool should consist of consecutive IP addresses. If you cannot provide this then specific IP addresses can be modified at the end of the configuration process.
Sample first host names
Database Server Admin Name : dm01dbadm01
ILOM Name : dm01dbadm01-ilom
Storage Server Admin Name : dm01celadm01
ILOM Name : dm01celadm01-ilom
Modify...
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Administration Network
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Starting IP Address for Pool : 5.4.3.2
[Valid network range : 5.4.3.2 - 5.4.3.254]
Pool Size : 15
ddress for Pool : 5.4.3.16
Is the default gateway for database servers
Defines the Hostname for the database servers
uld consist of consecutive IP addresses. If you cannot provide this then specific IP addresses can be modified at
e configuration process.
Sample first host names
abase Server Admin Name : dm01dbadm01
ILOM Name : dm01dbadm01-ilom
orage Server Admin Name : dm01celadm01
ILOM Name : dm01celadm01-ilom
Modify...
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel
Admin Network Format Masks
Compute Node
Compute ILOM
The %% sign in the 'Compute' names will be replaced with the Start ID.
Name : dm01dbadm%%
Name : dm01dbadm%%-ilom
Starting ID : 1
Starting ID : 1
Sample Name : dm01dbadm01
Sample Name : dm01dbadm01-ilom
Cell Node
Cell ILOM
The %% sign in the 'Cell' names will be replaced with the Start ID.
Name : dm01celadm%%
Name : dm01celadm%%-ilom
Starting ID : 1
Starting ID : 1
Sample Name : dm01celadm01
Sample Name : dm01celadm01-ilom
Switches and PDUs
The % sign in the 'Switch' and 'PDU' names will be replaced with the Rack ID.
Cisco switch : dm01sw-adm%%
InfiniBand Spine : dm01sw-ibs%%
KVM switch : dm01sw-kvm%%
InfiniBand Leaf : dm01sw-iba%%
PDU-A : dm01sw-pdua%%
InfiniBand Leaf : dm01sw-ibb%%
PDU-B : dm01sw-pdub%%
Save
Cancel


Oracle Exadata Deployment Assistant
Client Ethernet Network
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Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
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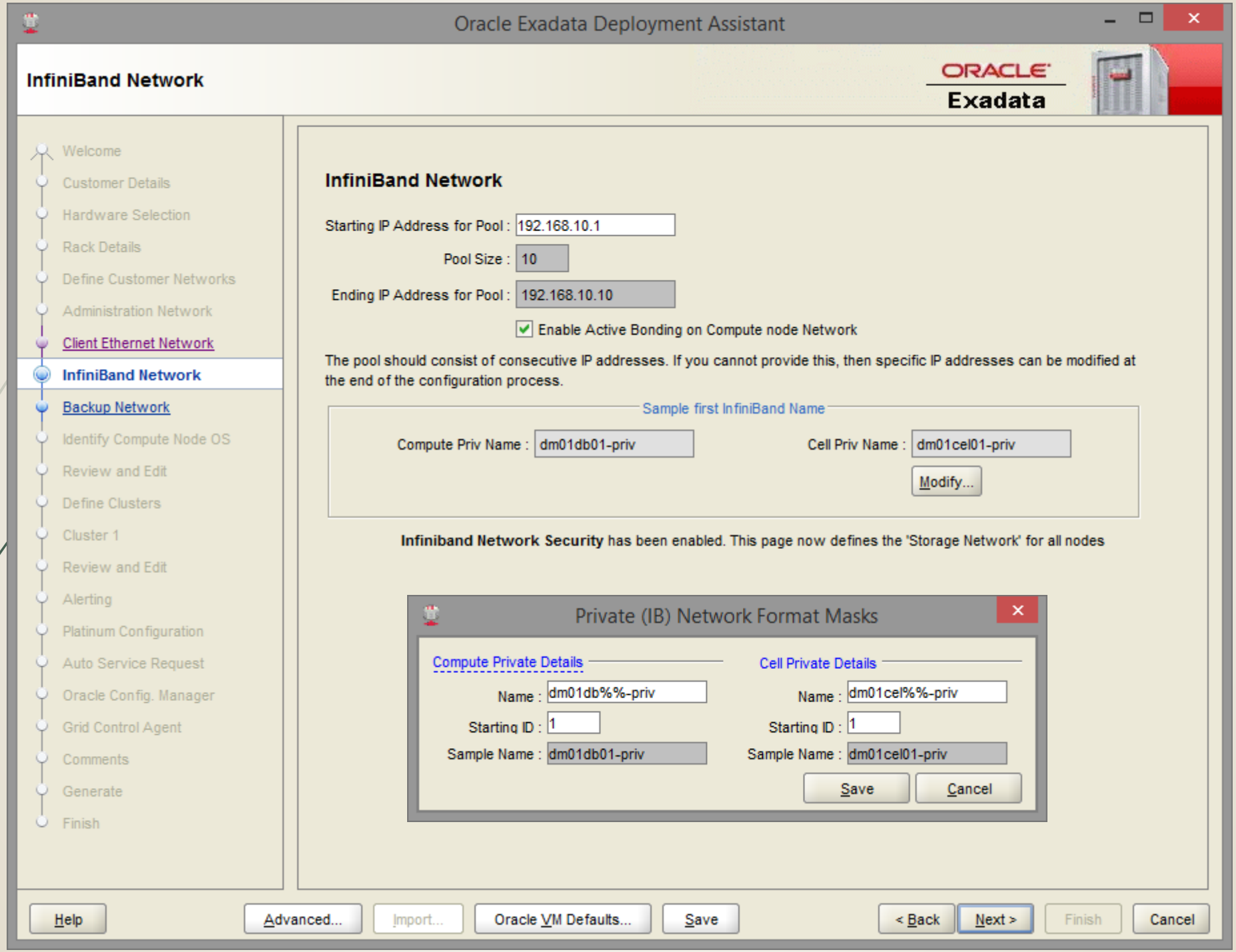
InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Client Ethernet Network
Starting IP Address for Pool : 6.5.4.2
[Valid network range : 6.5.4.2 - 6.5.4.254]
Pool Size : 7
Ending IP Address for Pool : 6.5.4.8
Is the default gateway for database servers
Defines the hostname for the database servers
The pool should consist of consecutive IP addresses. If you cannot provide this then specific IP addresses can be modified at the end of the configuration process.
Sample first database client names
Compute Client Name : dm01db01
VIP Name : dm01db01-vip
Client Scan name : dm01-scan
Modify...
Client Network Format Masks
Client Access Details
Name : dm01db%%
Starting ID : 1
Sample Name dm01db01
VIP Details
Name : dm01db%%-vip
Starting ID : 1
Sample Name dm01db01-vip
SCAN Details
Name : dm01-scan
Save
Cancel
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
InfiniBand Network
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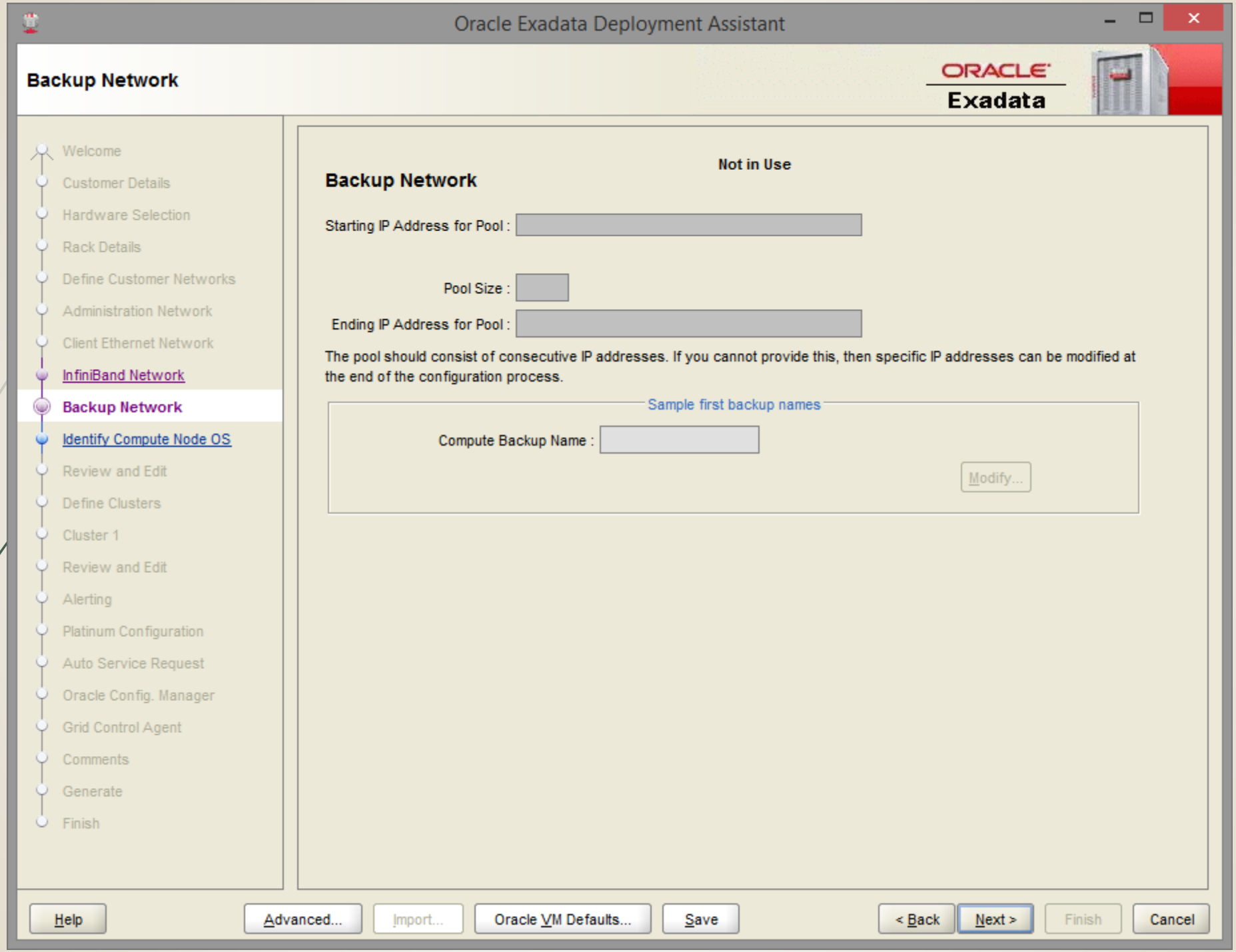
InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
InfiniBand Network
Starting IP Address for Pool : 192.168.10.1
Pool Size : 10
Ending IP Address for Pool : 192.168.10.10
Enable Active Bonding on Compute node Network
The pool should consist of consecutive IP addresses. If you cannot provide this, then specific IP addresses can be modified at the end of the configuration process.
Sample first InfiniBand Name
Compute Priv Name : dm01db01-priv
Cell Priv Name : dm01cel01-priv
Modify...
Infiniband Network Security has been enabled. This page now defines the 'Storage Network' for all nodes
Private (IB) Network Format Masks
Compute Private Details
Name : dm01db%%-priv
Starting ID : 1
Sample Name : dm01db01-priv
Cell Private Details
Name : dm01cel%%-priv
Starting ID : 1
Sample Name : dm01cel01-priv
Save
Cancel
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Backup Network
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Customer Details
Hardware Selection
Rack Details
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Administration Network
Client Ethernet Network
InfiniBand Network
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Identify Compute Node OS
Review and Edit
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Review and Edit
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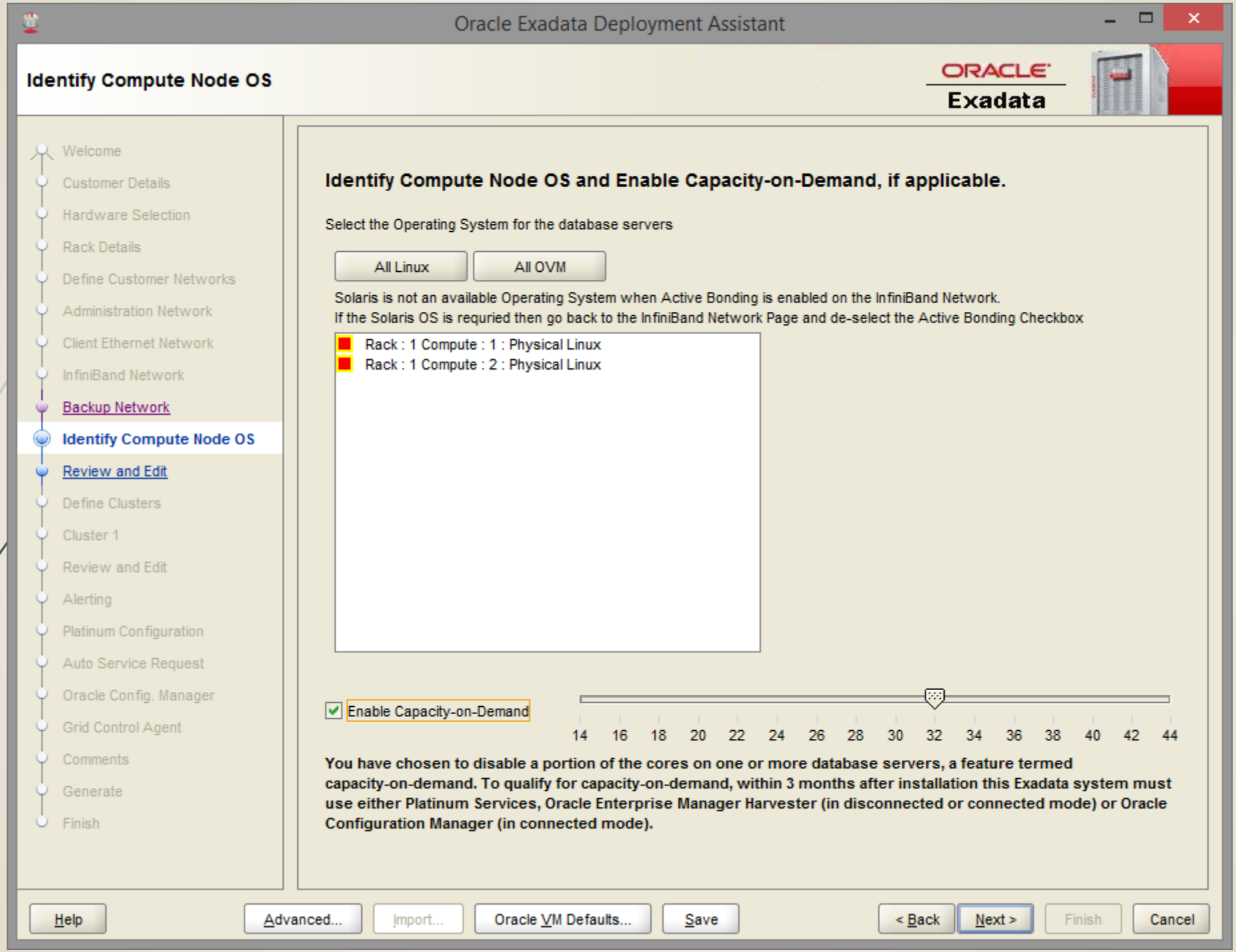
Grid Control Agent
Comments
Generate
Finish
Not in Use
Backup Network
Starting IP Address for Pool :
Pool Size :
Ending IP Address for Pool :
The pool should consist of consecutive IP addresses. If you cannot provide this, then specific IP addresses can be modified at the end of the configuration process.
Sample first backup names
Compute Backup Name :
Modify...
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel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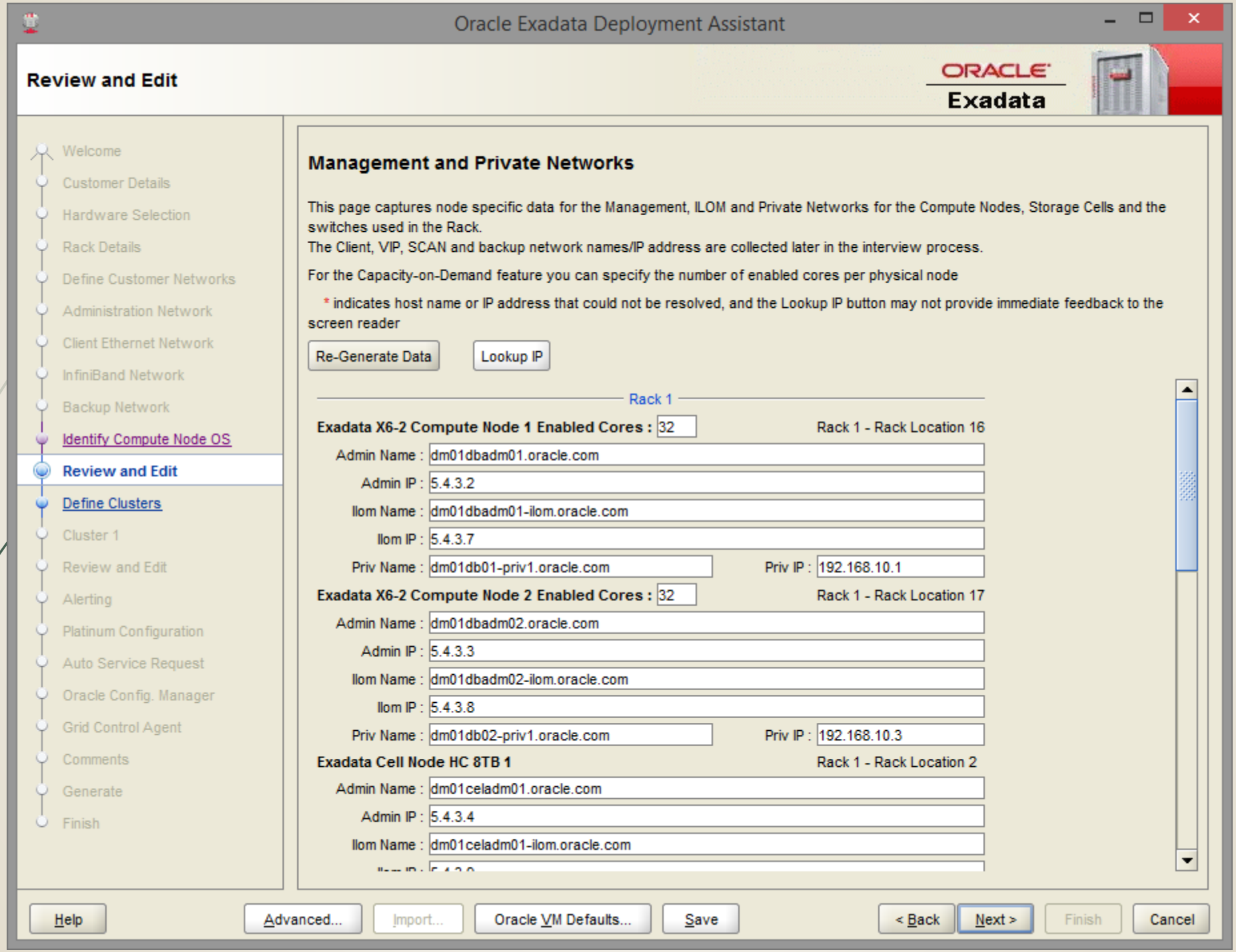
Comments
Generate
Finish
Identify Compute Node OS and Enable Capacity-on-Demand, if applicable.
Select the Operating System for the database servers
All Linux
All OVM
Solaris is not an available Operating System when Active Bonding is enabled on the InfiniBand Network.
If the Solaris OS is requried then go back to the InfiniBand Network Page and de-select the Active Bonding Checkbox
Rack : 1 Compute : 1 : Physical Linux
Rack : 1 Compute : 2 : Physical Linux
Enable Capacity-on-Demand
14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44
You have chosen to disable a portion of the cores on one or more database servers, a feature termed capacity-on-demand. To qualify for capacity-on-demand, within 3 months after installation this Exadata system must use either Platinum Services, Oracle Enterprise Manager Harvester (in disconnected or connected mode) or Oracle Configuration Manager (in connected mode).
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel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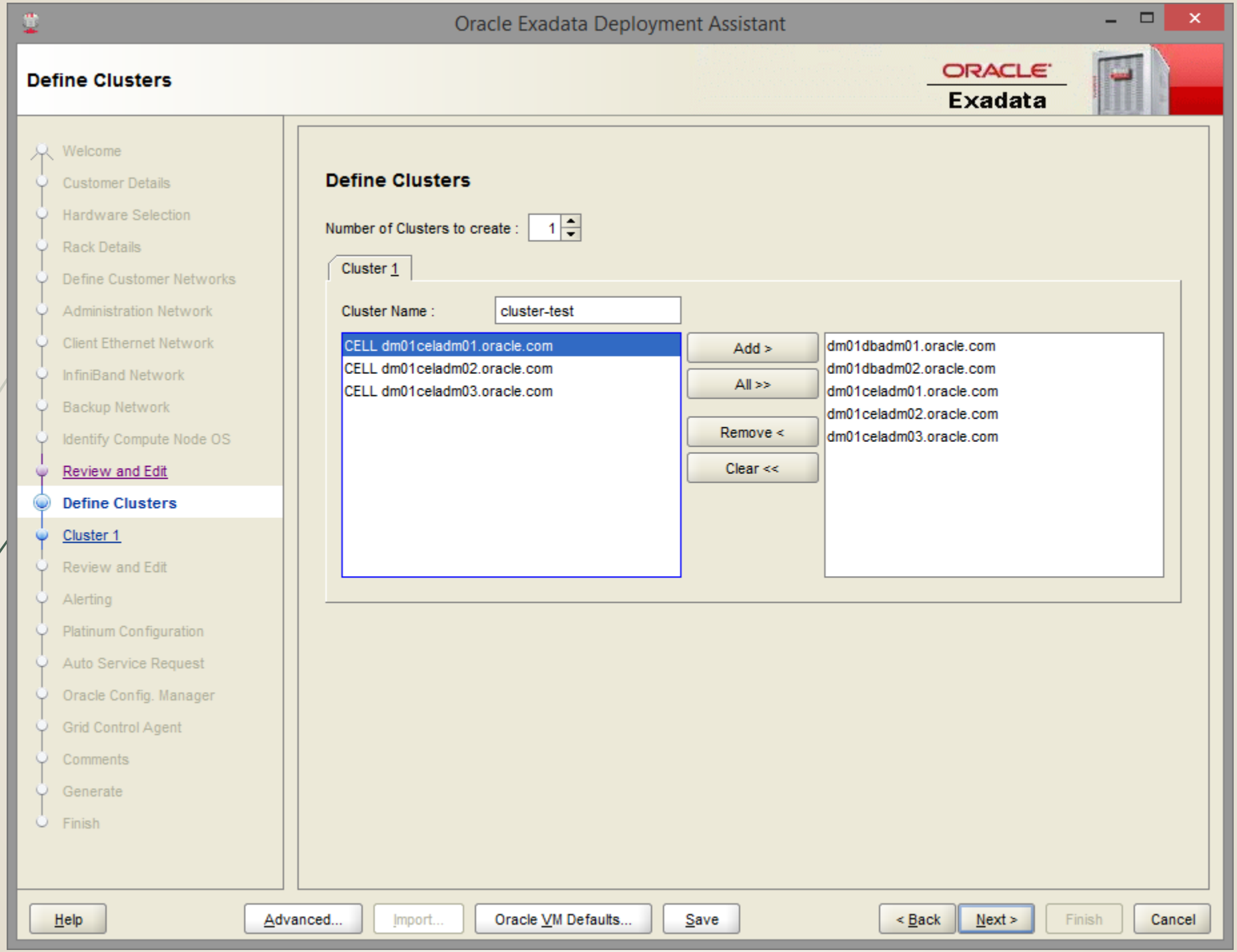
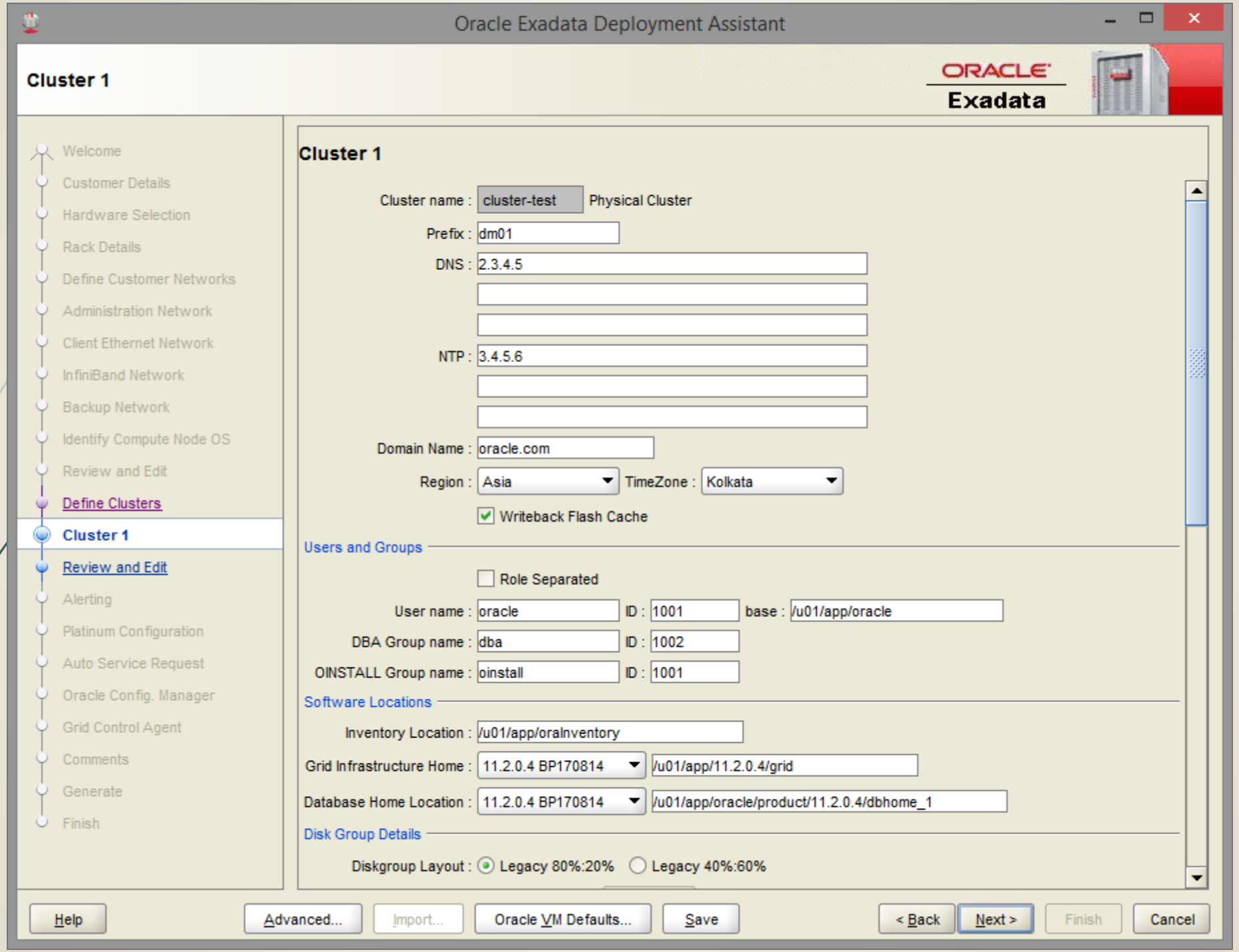
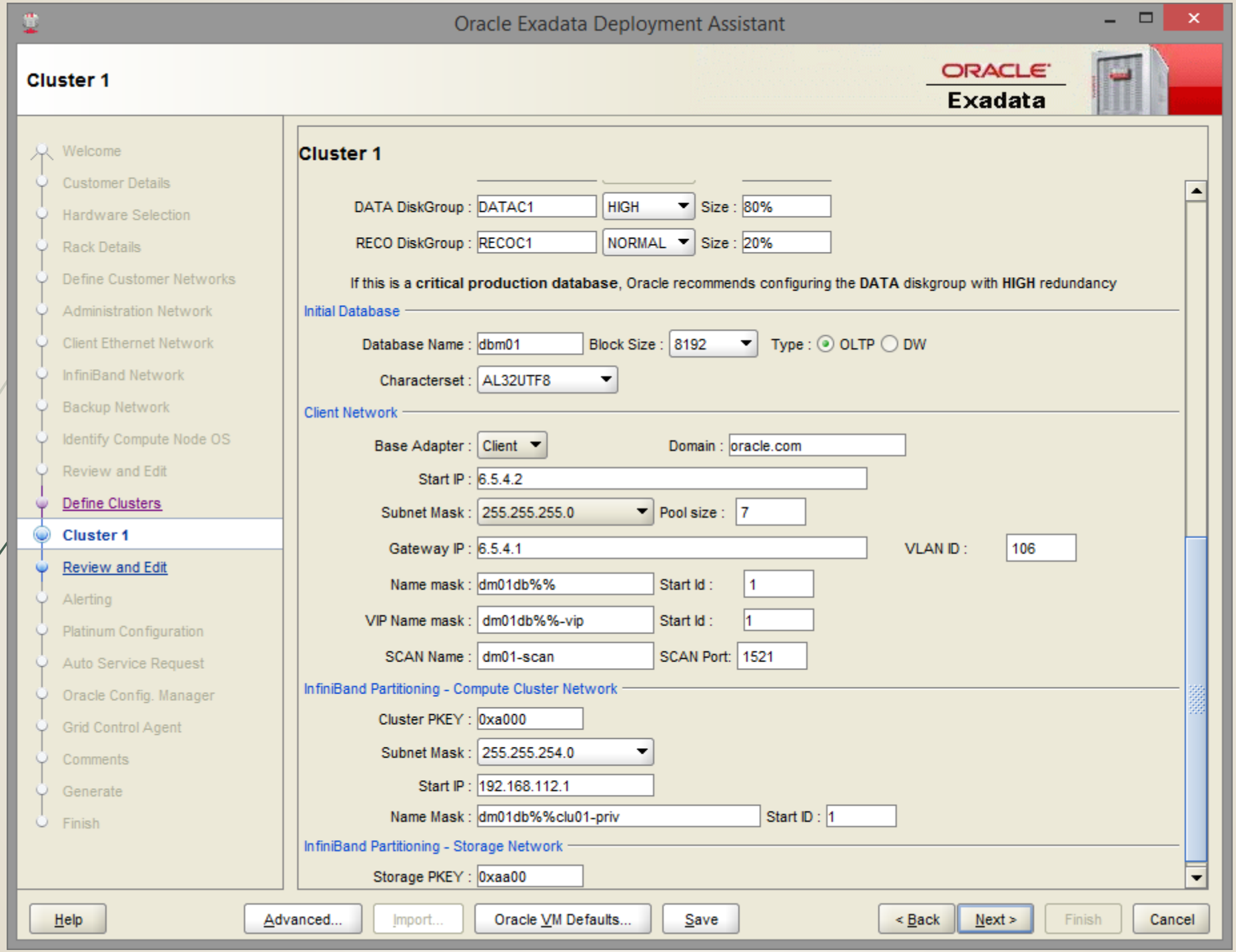
Management and Private Networks
This page captures node specific data for the Management, ILOM and Private Networks for the Compute Nodes, Storage Cells and the switches used in the Rack.
The Client, VIP, SCAN and backup network names/IP address are collected later in the interview process.
For the Capacity-on-Demand feature you can specify the number of enabled cores per physical node
* indicates host name or IP address that could not be resolved, and the Lookup IP button may not provide immediate feedback to the screen reader
Re-Generate Data
Lookup IP
Rack 1
Exadata X6-2 Compute Node 1 Enabled Cores : 32
Rack 1 - Rack Location 16
Admin Name : dm01dbadm01.oracle.com
Admin IP : 5.4.3.2
Ilom Name : dm01dbadm01-ilom.oracle.com
Ilom IP : 5.4.3.7
Priv Name : dm01db01-priv1.oracle.com
Priv IP : 192.168.10.1
Exadata X6-2 Compute Node 2 Enabled Cores : 32
Rack 1 - Rack Location 17
Admin Name : dm01dbadm02.oracle.com
Admin IP : 5.4.3.3
Ilom Name : dm01dbadm02-ilom.oracle.com
Ilom IP : 5.4.3.8
Priv Name : dm01db02-priv1.oracle.com
Priv IP : 192.168.10.3
Exadata Cell Node HC 8TB 1
Rack 1 - Rack Location 2
Admin Name : dm01celadm01.oracle.com
Admin IP : 5.4.3.4
Ilom Name : dm01celadm01-ilom.oracle.com
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Define Clusters
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Client Ethernet Network
InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Define Clusters
Number of Clusters to create : 1
Cluster 1
Cluster Name : cluster-test
CELL dm01celadm01.oracle.com
CELL dm01celadm02.oracle.com
CELL dm01celadm03.oracle.com
Add >
All >>
Remove <
Clear <<
dm01dbadm01.oracle.com
dm01dbadm02.oracle.com
dm01celadm01.oracle.com
dm01celadm02.oracle.com
dm01celadm03.oracle.com
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Cluster 1
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Client Ethernet Network
InfiniBand Network
Backup Network
Identify Compute Node OS
Review and Edit
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Cluster 1
Cluster name : cluster-test Physical Cluster
Prefix : dm01
DNS : 2.3.4.5
NTP : 3.4.5.6
Domain Name : oracle.com
Region : Asia TimeZone : Kolkata
Writeback Flash Cache
Users and Groups
Role Separated
User name : oracle ID : 1001 base : /u01/app/oracle
DBA Group name : dba ID : 1002
OINSTALL Group name : oinstall ID : 1001
Software Locations
Inventory Location : /u01/app/oraInventory
Grid Infrastructure Home : 11.2.0.4 BP170814 /u01/app/11.2.0.4/grid
Database Home Location : 11.2.0.4 BP170814 /u01/app/oracle/product/11.2.0.4/dbhome_1
Disk Group Details
Diskgroup Layout : Legacy 80%:20% Legacy 40%:60%
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Cluster 1
ORACLE
Exadata
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Grid Control Agent
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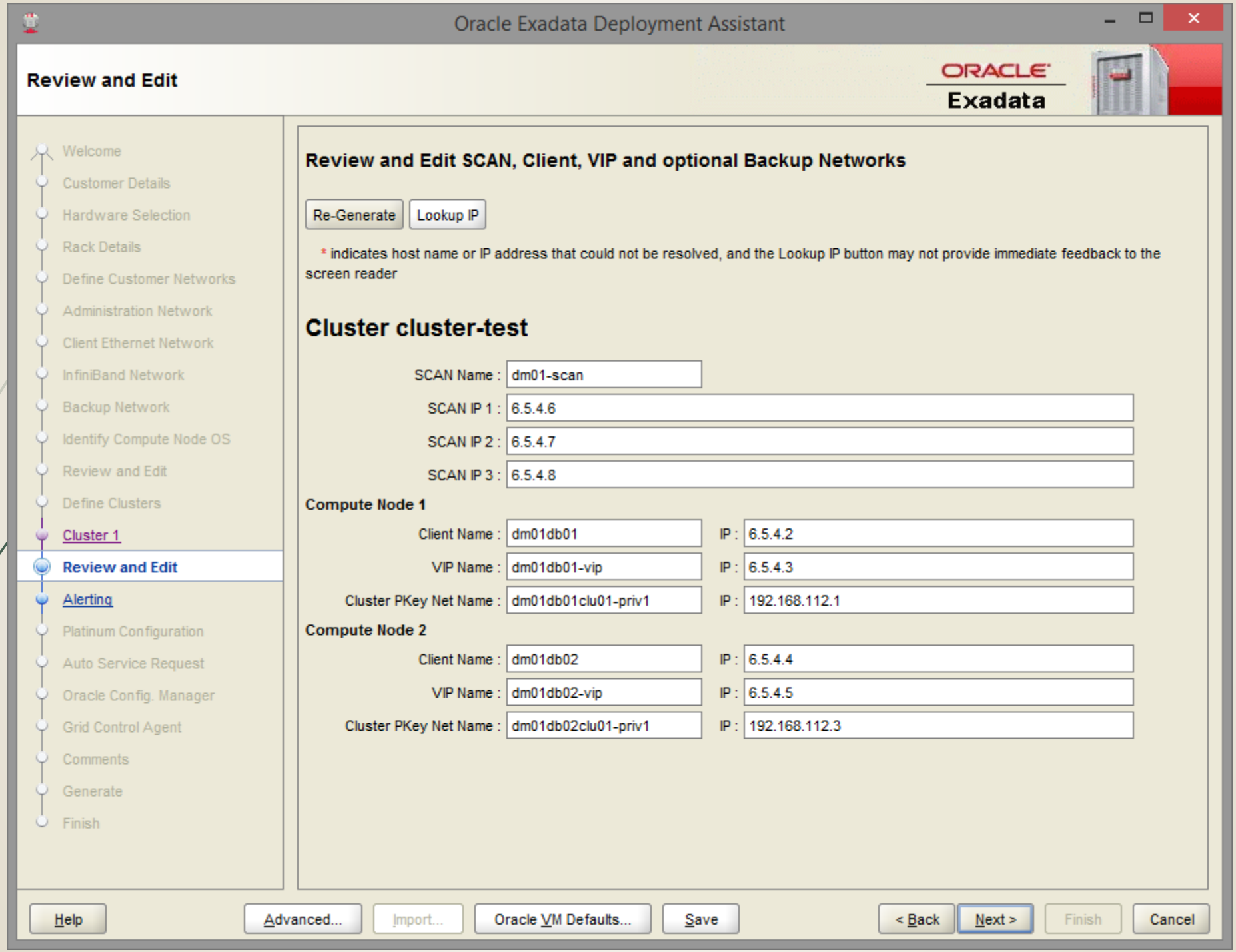
Finish
Cluster 1
DATA DiskGroup : DATAC1 HIGH Size : 80%
RECO DiskGroup : RECOC1 NORMAL Size : 20%
If this is a critical production database, Oracle recommends configuring the DATA diskgroup with HIGH redundancy
Initial Database
Database Name : dbm01 Block Size : 8192 Type : OLTP DW
Characterset : AL32UTF8
Client Network
Base Adapter : Client Domain : oracle.com
Start IP : 6.5.4.2
Subnet Mask : 255.255.255.0 Pool size : 7
Gateway IP : 6.5.4.1 VLAN ID : 106
Name mask : dm01db%% Start Id : 1
VIP Name mask : dm01db%%-vip Start Id : 1
SCAN Name : dm01-scan SCAN Port: 1521
InfiniBand Partitioning - Compute Cluster Network
Cluster PKEY : 0xa000
Subnet Mask : 255.255.254.0
Start IP : 192.168.112.1
Name Mask : dm01db%%clu01-priv Start ID : 1
InfiniBand Partitioning - Storage Network
Storage PKEY : 0xaa00
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Review and Edit
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Client Ethernet Network
InfiniBand Network
Backup Network
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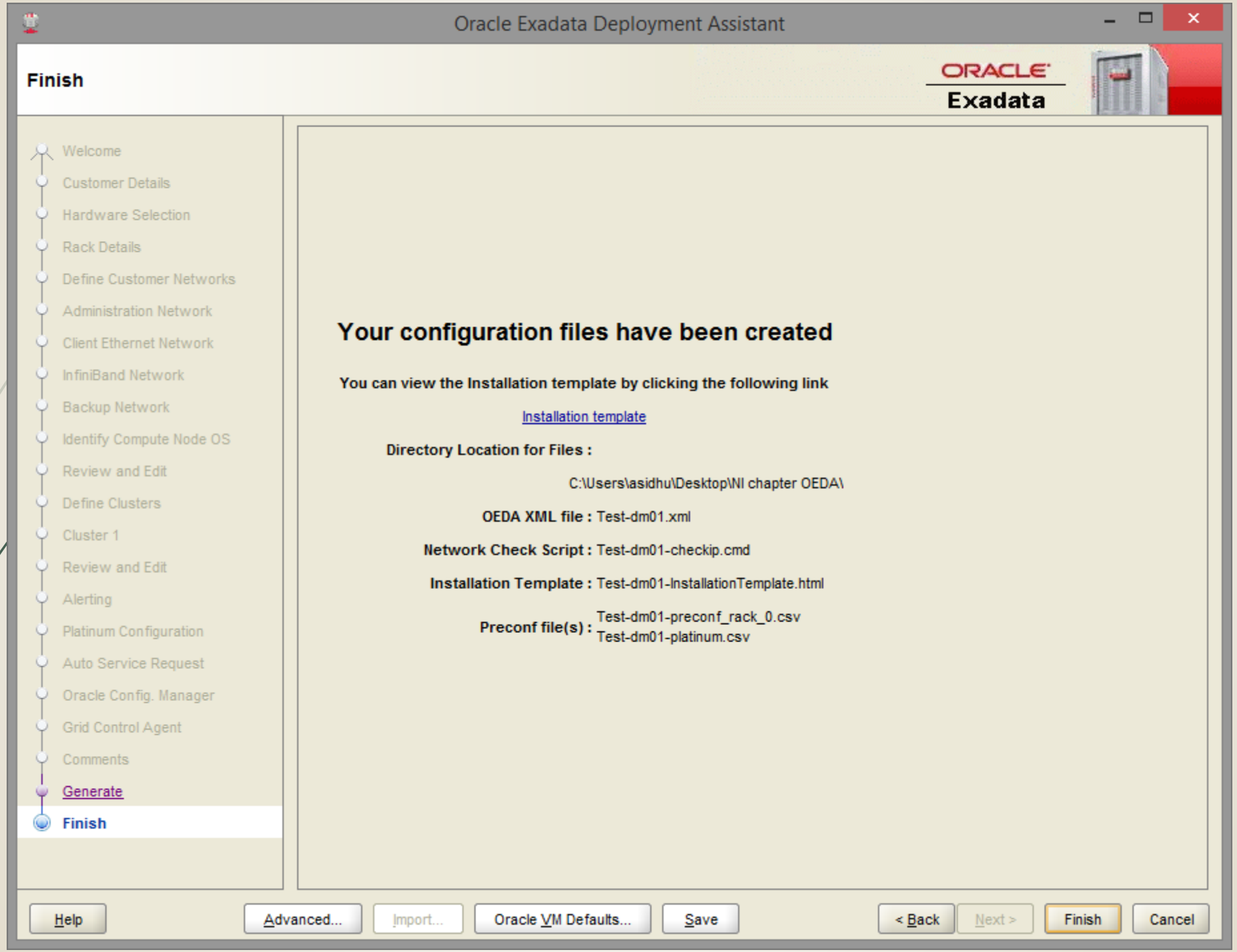
Define Clusters
Cluster 1
Review and Edit
Alerting
Platinum Configuration
Auto Service Request
Oracle Config. Manager
Grid Control Agent
Comments
Generate
Finish
Review and Edit SCAN, Client, VIP and optional Backup Networks
Re-Generate
Lookup IP
* indicates host name or IP address that could not be resolved, and the Lookup IP button may not provide immediate feedback to the screen reader
Cluster cluster-test
SCAN Name : dm01-scan
SCAN IP 1 : 6.5.4.6
SCAN IP 2 : 6.5.4.7
SCAN IP 3 : 6.5.4.8
Compute Node 1
Client Name : dm01db01 IP : 6.5.4.2
VIP Name : dm01db01-vip IP : 6.5.4.3
Cluster PKey Net Name : dm01db01clu01-priv1 IP : 192.168.112.1
Compute Node 2
Client Name : dm01db02 IP : 6.5.4.4
VIP Name : dm01db02-vip IP : 6.5.4.5
Cluster PKey Net Name : dm01db02clu01-priv1 IP : 192.168.112.3
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel


Oracle Exadata Deployment Assistant
Finish
ORACLE
Exadata
Welcome
Customer Details
Hardware Selection
Rack Details
Define Customer Networks
Administration Network
Client Ethernet Network
InfiniBand Network
Backup Network
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Cluster 1
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Generate
Finish
Your configuration files have been created
You can view the Installation template by clicking the following link
Installation template
Directory Location for Files :
C:\Users\asidhu\Desktop\NI chapter OEDA\
OEDA XML file : Test-dm01.xml
Network Check Script : Test-dm01-checkip.cmd
Installation Template : Test-dm01-InstallationTemplate.html
Preconf file(s) : Test-dm01-preconf_rack_0.csv
Test-dm01-platinum.csv
Help
Advanced...
Import...
Oracle VM Defaults...
Save
< Back
Next >
Finish
Cancel

Questions ?