Version Details

Solution Name -   Cloud Discovery & Assessment

Submitted By   -   CA@gmail.com

Version No   -   2

Description   -   ver 2

Date   -   19-Mar-2024

Current Infrastructure Assessment

Tools or methods used for inventory and assessment

1. Current solution & software used

   maduraiteam_ebi

2. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

   ☐ Rehost(Lift & Shift)   ☐ Re-factor

   ☐ Replatform   ☐ Rebuild

3. Comments (examples: open to changing vendor, wants byol)

4. File Attachment

   [1709388282571-Examples and syntax for each step.pdf](#) ↗

5. Select Language

   Replatform

Operating systems

7. Current solution & software used

maduraiteam_ebiz_mvp.user_answers

8. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☑ Rehost(Lift & Shift) ☑ Re-factor

☐ Replatform ☐ Rebuild

9. Comments (examples: open to changing vendor, wants byol)

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Hardware and VMs

10. Current solution & software used

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11. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☑ Rehost(Lift & Shift) ☑ Re-factor

☐ Replatform ☐ Rebuild

12. Comments (examples: open to changing vendor, wants byol)

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Network Topology

13. Current solution & software used

testing

14. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- ☑ Rehost(Lift & Shift)
- ☐ Re-factor
- ☐ Replatform
- ☐ Rebuild

15. Comments (examples: open to changing vendor, wants byol)

testing

Network Connectivity

16. Current solution & software used

17. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- ☐ Rehost(Lift & Shift)
- ☐ Re-factor
- ☐ Replatform
- ☐ Rebuild

18. Comments (examples: open to changing vendor, wants byol)

Switching and Cabling

19. Current solution & software used

20. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

21. Comments (examples: open to changing vendor, wants byol)

Routers

22. Current solution & software used

23. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

24. Comments (examples: open to changing vendor, wants byol)

Wireless

25. Current solution & software used

26. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift) ☐ Re-factor

☐ Replatform ☐ Rebuild

27. Comments (examples: open to changing vendor, wants byol)

Server and Instance Firewalls

28. Current solution & software used

29. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift) ☐ Re-factor

☐ Replatform ☐ Rebuild

30. Comments (examples: open to changing vendor, wants byol)

Intrusion detection or prevention systems (IDS/IPS)

31. Current solution & software used

32. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift) ☐ Re-factor

☐ Replatform ☐ Rebuild

33. Comments (examples: open to changing vendor, wants byol)

Anti-Virus

34. Current solution & software used

35. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☑ Rehost(Lift & Shift) ☑ Re-factor

☐ Replatform ☐ Rebuild

36. Comments (examples: open to changing vendor, wants byol)

checking again

Pen Testing and Vulnerability Assessment

37. Current solution & software used

38. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

39. Comments (examples: open to changing vendor, wants byol)

Other Security Tools and Software

40. Current solution & software used

41. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

42. Comments (examples: open to changing vendor, wants byol)

Malware

43. Current solution & software used

44. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift) ☐ Re-factor

☐ Replatform ☐ Rebuild

45. Comments (examples: open to changing vendor, wants byol)

Information Lifecycle Management (ILM)

46. Current solution & software used

47. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift) ☐ Re-factor

☐ Replatform ☐ Rebuild

48. Comments (examples: open to changing vendor, wants byol)

Disaster Recovery

49. Current solution & software used

50. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift)   ☐ Re-factor

☐ Replatform   ☐ Rebuild

51. Comments (examples: open to changing vendor, wants byol)

Backups

52. Current solution & software used

53. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift)   ☐ Re-factor

☐ Replatform   ☐ Rebuild

54. Comments (examples: open to changing vendor, wants byol)

Replication and Availability

55. Current solution & software used

56. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

57. Comments (examples: open to changing vendor, wants byol)

DevOps

58. Current solution & software used

59. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

60. Comments (examples: open to changing vendor, wants byol)

Infrastructure Automation

61. Current solution & software used

62. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

63. Comments (examples: open to changing vendor, wants byol)

Licensing

64. Current solution & software used

65. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

66. Comments (examples: open to changing vendor, wants byol)

Scaling and Cluster Management

67. Current solution & software used

68. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift)   ☐ Re-factor

☐ Replatform   ☐ Rebuild

69. Comments (examples: open to changing vendor, wants byol)

Billing and Chargeback

70. Current solution & software used

71. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

☐ Rehost(Lift & Shift)   ☐ Re-factor

☐ Replatform   ☐ Rebuild

72. Comments (examples: open to changing vendor, wants byol)

Notifications and Alerting

73. Current solution & software used

74. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

75. Comments (examples: open to changing vendor, wants byol)

Service Desk and Incident Management

76. Current solution & software used

o87o87o78

77. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

78. Comments (examples: open to changing vendor, wants byol)

Other

79. Current solution & software used

9879

80. Oracle SaaS, OCI & marketplace offerings (for new cloud native implementation, lift and shift, refactoring, or replacement)

- [ ] Rehost(Lift & Shift)
- [ ] Re-factor
- [ ] Replatform
- [ ] Rebuild

81. Comments (examples: open to changing vendor, wants byol)

97897

82. Do you want to install the software?

- (•) Yes
- ( ) No

Infrastructure Inventory

Hardware

1. Server name (FQDN)

1223

2. Role

3. Physical or Virtual details

4. Domain

5. Applications or software installed on the server

☐ Web Applications   ☐ Database Applications

☐ Enterprise Applications   ☐ Development

☐ DevOps Tools

6. IP Addresses

7. Services

8. Performance metrics used

○ CPU Utilization   ○ Network Throughput

○ Memory Usage   ○ Latency

9. Cores or CPU's

○ 2OCPU   ○ 4 OCPU

● 8 OCPU   ○ 16 OCPU

○ 32 OCPU

10. Memory

○ 18   ○ 16

○ 32   ○ 64

11. Storage

○ Free Tier - 5 GB   ○ Basic Plan - 100 GB

○ Standard Plan - 1 TB (1,000 GB)   ○ Business/Enterpri Plan - 10 TB or Mo

12. Peak CPU utilization percentage

- ◯ Low CPU Utilization (below 20% on average)
- ◯ Moderate CPU Utilization (between 20% and 60%)
- ◯ High CPU Utilization (exceeding 60%, often reaching close to 100%)
- ◯ Variable CPU Utilization (low to high depending on usage patterns)

13. Average CPU utilization percentage

- ◯ Low CPU Utilization (10% to 30%)
- ◯ Moderate CPU Utilization(30% to 60%)
- ◯ High CPU Utilization (60% to 90%)
- ◯ Variable CPU Utilization(Low to High)

14. Peak memory utilization

- ◯ Low Peak Memory Utilization (Less than 25%)
- ◯ Moderate Peak Memory Utilization (25% to 60%)
- ◯ High Peak Memory Utilization (60% to 90%)
- ◯ Near Full Memory Utilization (Close to 100%)

15. Dependencies and connections

[   ]

16. Age and depreciation information

[   ]

Application Portfolio

Application & Use Cases

1. Oracle apps

   ☑ Oracle Database ☑ Oracle ERP Cloud

   ☐ Oracle E-Business Suite(EBS) ☐ Oracle Netsuite

   ☐ Others

2. Microsoft apps

   ☑ Microsoft Office 365 ☐ Microsoft Azure

   ☐ Microsoft Teams ☐ Microsoft Dynamics 365

   ☐ Others

3. SAP apps

   ☐ SAP S/4HANA ☐ SAP SuccessFactors

   ☐ SAP Ariba ☐ SAP BusinessObjects BI (Business Intelligence)

   ☐ others

4. IBM apps

   ☑ IBM Watson ☐ IBM WebSphere Application Server

   ☐ IBM Cognos Analytics ☐ IBM Db2

   ☐ others

5. Other enterprise apps

6. Web apps

☐ Google Workspace (formerly G Suite) ☐ Microsoft 365 (formerly Office 365)

☐ Trello ☑ Slack

☑ Others

7. HCM

☐ SAP SuccessFactors ☐ Workday HCM

☐ Oracle HCM Cloud ☐ Kronos Workforce Ready

☐ Others

8. EPM

☐ Oracle Hyperion EPM ☐ SAP Business Planning and Consolidation

☐ IBM Planning Analytics ☐ Anaplan

☐ Others

9. CX

p98p9p

10. ERP

11. SCM

- [ ] SAP Integrated Business Planning
- [ ] Oracle SCM Cloud
- [ ] JDA (now Blue Yonder)
- [ ] Manhattan Associates SCM
- [ ] Others

12. CRM

- [ ] Salesforce
- [ ] HubSpot CRM
- [ ] Microsoft Dynamics 365
- [ ] Zoho CRM
- [ ] Others

13. BPM

- [ ] TIBCO ActiveMatrix BPM
- [ ] IBM Business Process Manager
- [ ] Appian
- [ ] Nintex
- [ ] Others

14. Data Warehousing

- [ ] Enterprise Data Warehouse (EDW)
- [ ] Data Mart
- [ ] Operational Data Store (ODS)
- [ ] Cloud Data Warehouse
- [ ] others

15. Big Data Warehousing

- [ ] Massively Parallel Processing
- [ ] Columnar Databases

(MPP) Data Warehouses

- [ ] NoSQL and NewSQL Databases
- [ ] Data Lakes
- [ ] Others

16. HPC

17. IoT

- [ ] Amazon Web Services IoT (AWS IoT)
- [ ] Microsoft Azure IoT
- [ ] Google Cloud IoT
- [ ] IBM Watson IoT
- [ ] Others

18. Gaming

19. Mobile

20. AI/ML

21. AR/VR

22. SaaS

23. Blockchain

- [ ] Ethereum
- [ ] Hyperledger Fabric
- [ ] Corda
- [ ] Binance Smart Chain
- [ ] Others

24. BI

gegrgw

25. Real-time analysis

csdcdscds

26. Industry-specific solutions

cscdcds

27. Other (Specify)

Application Details

Application

1. Application name & brief description

2. Cloud strategy for the app
   - ☑ Retire, Re-host (IaaS)
   - ☐ Re-platform (PaaS)
   - ☐ Replace (SaaS)
   - ☐ Rebuild (cloud native)

3. Transaction rate (peak and average)
   - ● Min
   - ○ Max
   - ○ Avg
   - ○ High

4. CDN
   - ● Yes
   - ○ No

5. File system
   - ● Yes
   - ○ No

6. Application caching
   - ● Yes
   - ○ No

7. Backups
   - ● Yes
   - ○ No

8. Archival
   - ● Yes
   - ○ No

9. NoSQL database
   - ● Yes
   - ○ No

10. Big Data database
    - ● Yes
    - ○ No

11. Data Warehouse
    - ● Yes
    - ○ No

12. Users (Peak and average)
    - ● Peak
    - ○ Average

13. Transaction rate (peak and average)
    - ● Peak
    - ○ Average

14. Expected growth (user, transaction, & data)

- ● Min
- ○ Avg
- ○ Max
- ○ High

15. Application Security (encryption, keys, WAF, DDOS, IDS, IPS)

- ● Encryption
- ○ Web Application Firewall (WAF)
- ○ Intrusion Detection System (IDS)
- ○ Key Management
- ○ Distributed Denial of Service (DDoS) Mitigation
- ○ Intrusion Prevention System (IPS)

16. User management (identities, roles, federation, LDAP, SSO, AD, SAML)

- ☑ Identities
- ☐ Federation
- ☐ Single Sign-On (SSO)
- ☐ SAML (Security Assertion Markup Language)
- ☐ Roles
- ☐ LDAP (Lightweight Directory Access Protocol)
- ☐ Active Directory (AD)

17. Data classification

- ● Yes
- ○ No

18. Messaging & workflow

- ● Yes
- ○ No

19. Big Data database

- ● Yes
- ○ No

20. Database backup & recovery

- ● Yes
- ○ No

21. DNS

- ● Yes
- ○ No

22. Disaster Recovery   ⦿ Yes   ◯ No

23. Application backup & recovery   ⦿ Yes   ◯ No

24. Availability & fault tolerance

testing

25. Scaling (horizontal & Vertical)   ⦿ Horizontal   ◯ Vertical

26. DevOps   ⦿ Yes   ◯ No

27. Application monitoring   ⦿ Yes   ◯ No

28. Source code control   ⦿ Yes   ◯ No

29. Billing & Chargeback   ⦿ Yes   ◯ No

30. Governance   ⦿ Yes   ◯ No

31. Auditing requirements   ⦿ Yes   ◯ No

32. Notifications, alerting   ⦿ Yes   ◯ No

33. Logging, monitoring, & Log management   ⦿ Yes   ◯ No

34. Service desk & incident management   ⦿ Yes   ◯ No

35. SI, vendors, providers   ⦿ Yes   ◯ No

36. Other

testing

Current Infrastructure Architecture

Current Design

1. How do you use DNS internally?

2. Who is your DNS provider for Internet?
   - ◯ GoDaddy
   - ◯ HostGator
   - ◯ Domain.com
   - ◯ web.com
   - ◯ Hostinger
   - ◯ Others

3. Where are your Data Centers locate and how many do you have?
   - ◯ Northern Virginia, USA
   - ◯ London, United Kingdom
   - ◯ Others
   - ◯ Silicon Valley, California, USA
   - ◯ Singapore

4. Do you have a future state cloud diagram?
   - ◯ Yes
   - ◯ No

5. Please provide a full list of internal networks you want routable to/from the Oracle Cloud.
   - ◯ Corporate Data Center Network
   - ◯ Development and Testing Environments
   - ◯ Remote Office/Branch Office (ROBO) Networks
   - ◯ Partner or Vendor Networks

6. What routing protocol do you use on your network?
   - ◯ OSPF (Open Shortest Path First)
   - ◯ RIP (Routing Information Protocol)
   - ◯ Other
   - ◯ BGP (Border Gateway Protocol)
   - ◯ EIGRP (Enhanced Interior Gateway Routing Protocol)

7. Who is in charge of your security policy and equipment?

8. Who manages your customer-premises equipment (CPE)?

- ◯ In-House IT Team
- ◯ Managed Service Provider (MSP)
- ◯ Cloud-Based Management Platforms
- ◯ End-Users
- ◯ Others

CLOUD DESIGN

Cloud Design

1. Do you have a current tenancy?   ◯ Yes   ◯ No

2. Are we designing a new tenancy or using existing?   ◯ New Tenancy   ◯ Using existing – Enter name of existing tenancy

3. If more than 1 tenancy do they need to communicate within OCI?   ◯ Yes   ◯ No

4. "Do you need Prod / Non-Prod Isolation?   ◯ Yes   ◯ No

5. What is your customer security policy ?

6. What is your customer compliance policy ?

CIDR

Environment (VCN) – Subnets

1. HUB

2. TEST

3. DR

4. DEV

5. Prod

6. TBD

Environment (VCN) - Ext-LB (Public) Subnet

7. HUB

8. TEST

9. DR

10. DEV

11. Prod

12. TBD

Environment (VCN) - Int-LB (Private) Subnet

13. HUB

14. TEST

15. DR

16. DEV

17. Prod

18. TBD

Environment (VCN) - (App+DB) Subnet

19. HUB

20. TEST

21. DR

22. DEV

23. Prod

24. TBD

DNS

DNS

1. Would you want to resolve OCI resources using private DNS? (E.g.customerwesite.com or customer.net etc.)

◯ Yes　　　　　◯ No

2. What are your (IP Address) On-Perm DNS Listener & DNS Forwarders?

3. What is domain and Sub-Domain names to be used in OCI (If the answer to #1 is yes)

4. What are your Oracle SAAS application URL (customer.com, customer.com, etc.)

5. Are the SAAS applications accessible over internet or only Internally(Organization's network only)

○ Yes   ○ No

6. Do you want to retain these application URLs' in OCI?

○ Yes   ○ No

IPSec VPN

IPSec VPN

1. Does your Internet connection has enough capacity to support the required Bandwidth (BW) to connect to the Oracle cloud?

   ○ Yes   ○ No

2. Does your CPE has enough horse power to support the required BW to connect to the Oracle cloud?

   ○ Yes   ○ No

3. Can you provide redundant Internet connections from your premises network?

   ○ Yes   ○ No

4. Will your CPE(s) sit behind a NAT device?

   ○ Yes   ○ No

5. If yes what is the private IP address of your CPE device(s)? Please note that in question 4 you need to provide the public IP address.

6. What is the public IP address of your CPE(s)?

7. Does your CPE support route or policy based tunnels?

   ○ Yes   ○ No

8. What is the make and model of your Customer Premises Equipment (CPE)?

9. What level of firmware is your CPE running?

10. Will you be doing port address translation (PAT) between CPE device and your VCN?

    ○ Yes   ○ No

11. What type of routing do you plan to use?

    ○ Static Routing   ○ Dynamic Routing (e.g.,

	OSPF, BGP)
○ Default Routing	○ Policy-Based Routing
○ Others	

12. Can your CPE and security policy support this Phase 1 Parameters?

    ○ Yes   ○ No

13. Can your CPE and security policy support this Phase 2 Parameters?

    ○ Yes   ○ No

14. Can your CPE and security policy support single Encryption Domain?

    ○ Yes   ○ No

15. Do you have the capability to prioritize traffic through multiple tunnels via your routing protocol?

    ○ Yes   ○ No

16. What Oracle region(s) are you planning to connect to?

○ US East (Ashburn)	○ US West (Phoenix)
○ EU (Frankfurt)	○ APAC (Mumbai)
○ Others	

FAST CONNECT

FastConnect

1. What FastConnect option are you planning to use?

- ◯ Dedicated FastConnect
- ◯ Partner FastConnect
- ◯ Others
- ◯ Colocation FastConnect
- ◯ Oracle Cloud Infrastructure FastConnect

2. Who is your current WAN or backbone provider?

- ◯ AT&T
- ◯ CenturyLink
- ◯ Others
- ◯ Verizon
- ◯ Orange Business Services

3. Can your provider deliver circuits or cross connects as needed for connection to OCI? Are there any locations where they cannot?

- ◯ Yes
- ◯ No

4. Is your Data Center currently co-located at any of the Oracle Cloud Centers?

- ◯ Yes
- ◯ No

5. How are you planning to deploy redundancy?

[   ]

6. Can you assign a /30 or /31 IP address with a private ASN for FastConnect?

- ◯ Yes
- ◯ No

7. Are you planning to connect to any Oracle Public Services?

- ◯ Yes
- ◯ No

8. Do you have your own registered IANA IP addresses and public BGP AS number?

- ◯ Yes
- ◯ No

9. Will you be setting up public and private peering?

- ◯ Yes
- ◯ No

10. If using BGP dynamic routing, what are the BGP session subnets (/31) to use for each tunnel? - The subnets must be part of the encryption domain.

11. What is your VPN Address for tunnels?

12. What is the ASN # of your network?

13. If using static routing, what are the subnets for your on-premises network?

14. On-prem network allow ICMP type 3 code 4

   ○ Yes   ○ No

ON CLOUD

On Cloud

1. How much Data do you anticipate on sending from On-Prem to Oracle Cloud (#Mb/s,# Gb/s etc.)
- ◯ less tha 1Gb/s
- ◯ 1 Gb/s - 10 Gb/s
- ⦿ 10 Gb/s - 100 Mb/s
- ◯ Others

2. Are you planning on Internet access to web services on the Oracle Cloud (i.e. Users on the Internet access your Webservers on Oracle Cloud)?
- ⦿ Yes
- ◯ No

3. Are you planning to use Virtual Machine or Bare Metal?
- ⦿ Virtual Machine
- ◯ Bare Metal

4. What Oracle region(s) are you planning to connect to?
- ⦿ US East (Ashburn)
- ◯ US West (Phoenix)
- ◯ EU (Frankfurt)
- ◯ APAC (Mumbai)
- ◯ Others

5. Do you need compute Instances to have Inbound access from the Internet?
- ⦿ Yes
- ◯ No

6. Do you need compute Instances to have Outbound access to the Internet?
- ⦿ Yes
- ◯ No

7. Do you need to have custom DNS servers or DNS resolutions between On premise and OCI
- ⦿ Yes
- ◯ No

8. Do you need a Firewall Virtual appliance deployed in OCI
- ⦿ Yes
- ◯ No

9. Will you need Public or Private Load Balancers?
- ⦿ Both
- ◯ Public
- ◯ Private