

## ERP System DR Procedure

### System Involved in backup Strategy Production

#### EBS APPS SERVERS

##### APPS NODE1

Platform	Host Name	Applications
Exalogic	vspiaerp01p	Financial, SCM, HCM, Medical

##### APPS NODE2

Platform	Host Name	Application
Exalogic	vspiaerp02p	Financial, SCM, HCM, Medical

##### APPS NODE3

Platform	Host Name	Application
Exalogic	vsisupp01p	ISupplier

##### APPS NODE4

Platform	Host Name	Application
Exalogic	vsirec01p	IRecruitment

## **EBS DATABASE SERVERS**

### **DB NODE1**

<b>Platform</b>	<b>Architecture</b>	<b>Host Name</b>	<b>DB</b>
Exadata	RAC	pia-xddbadm01.flypia.aero	12.1.0.2.0

### **DB NODE2**

<b>Platform</b>	<b>Architecture</b>	<b>Host Name</b>	<b>DB</b>
Exadata	RAC	pia-xddbadm02.flypia.aero	12.1.0.2.0

## System Involved in DR Site Islamabad backup Strategy

### DR EBS APPS SERVERS

#### DR APPS NODE1

Platform	Host Name	Application
VM	erpappsdr01.flypia.aero	

#### DR APPS NODE2

Platform	Host Name	Application
VM	erpappsdr02.flypia.aero	

#### DR APPS IRec

Platform	Host Name	Application
Oracle Server x5-2	vsebsdmz01.flypia.aero	IRec

#### DR APPS ISupp

Platform	Host Name	Application
Oracle Server x5-2	vsebsdmz02.flypia.aero	ISupp

#### DR DATABASE RAC NODE

Platform	Host Name	DB
Oracle Server x5-2	vserpdb01.flypia.aero	12.1.0.2.0
Oracle Server x5-2	Vserpdb02.flypia.aero	12.1.0.2.0

## Possible Disaster & its recover stages

There are different scenarios for Disaster Recovery and Business Continuity (DR & BC). Which are summarized in below section: -

Possible Disasters	Repercussions	Effected Applications & database	Feasible Recovery Solutions	Minimum Up-Time(Recommended)
<b>Primary Physical Hardware failure</b>	Servers become in-operative due to hardware	Main ERP(DB)	<b><u>DR Activation for BC</u></b> 1: Database will up by DR Active data guard failover option.  <b><u>Recovery of Production Site</u></b> 2: Original DB will be restore from backup media ,ZFS Storage & OSB backup	DR-Uptime 2 Hours  Uptime Orig: 72-Hours
		Main ERP(APPS)	<b><u>DR Activation for BC</u></b> 1: Any One of Primary application node will be up from DR Site that are in passive mode.  Second Primary, and 2 DMZ Application Nodes are Optional  <b><u>Recovery of Production Site</u></b>  Original Source will be reconfigured when hardware become operative by doing following: 1:Configuring new VM & O.S Apply same IP & hostname as Previous 2: Latest offsite and online backups be available from backup media. 3:Restore Complete full Apps from last full back up by backup media	DR-Uptime 2 Hours  Uptime Orig: 24-Hours
<b>Operating System Failure</b>	Operating System may become in- operative.	Main ERP(DB)	<b><u>DR Activation for BC</u></b> 1: Database will up by DR Active data guard failover option. <b><u>Recovery of Production Site</u></b> 1:Recovery of Operating System by raising SR & engaging third party partner 2: Latest offsite and online	DR-Uptime 2 Hours  Uptime Orig: 72-Hours

<b>Database failure</b>  <b>(Scenario 1,2,3,4)</b>			backups be available from backup media. 3:Restore Complete full DB from last full back up by backup media	
		Main ERP(APPS)	<b><u>DR Activation for BC</u></b> 1: Any of application node will be up from DR Site that are in passive mode  <b><u>Recovery of Production Site</u></b> 1: Configuring new VM & O.S Apply same IP & hostname as Previous 2: Latest offsite and online backups be available from backup media. 3:Restore Complete full Apps from last full back up by backup media	DR-Uptime 2 Hours  Uptime Orig: 24-Hours
	1: A Physical error occurred during normal database operations. Data file deleted or corrupted	Main ERP(DB)	<b><u>DR Activation for BC</u></b> 1: ERP database will be up from Active Data Guard from Secondary online server from ISLAMABAD Site  <b><u>Recovery of Production Site</u></b> 1: Data file will be restored from last available ZFS storage backup or backup media from OSB	DR-Uptime 2 Hours  Up-Time: 24 Hours
	2: A logical error occurred during normal database operation that was only recognized later. The structure of the database was changed between the error and the last complete backup	Main ERP(DB)	<b><u>DR Activation for BC</u></b> 1: DB will be recovered from last available validated archive  <b><u>Recovery of Production Site</u></b> 2.1: Data file will be restored from last available manual or OSB backup 2.2: DB will be recovered from last available validated archive	
	3: A logical error occurred during normal database	Main ERP(DB)	<b><u>DR Activation for BC</u></b> 3: ERP DB will be up by using failover option of Active Data Guard from Secondary online	

	operation that was only recognized later. The database was reorganized between the error occurring and its discovery. You want to recover the database to the point in time before the error		server from Islamabad Site 172.29.52.7 <b><u>Recovery of Production Site</u></b> 3.1: Data file will be restored from last available manual backup, OSB backup 3.2: DB will be recovered from last available validated archive	
	4: Database could not open and hence not accessible to users		<b><u>DR Activation for BC</u></b> 4: ERP DB will be up by using failover option of Active Data Guard from Secondary online server from Islamabad Site 172.29.52.7 <b><u>Recovery of Production Site</u></b> 4.1 Data file will be restored from last available OSB backup 4.2 For apps will be restored from available last backup	