



Kuwait Finance House

INTERNET BANKING SYSTEM

PRE-DISASTER RECOVERY PLAN DOCUMENT

Prepared By



Kuwait Finance House, Malaysia

&



VERSION: 1.0





Revision

Revision	Amendment	Ref In Doc	Updated By	Date
1.0	New Document	All	lvan Lai	16/09/2009





Table of Contents



2.1 System Readiness

This document shall contain all the operating system, system environment configuration, network connectivity and NetBackup setup check list. Please refer to *Appendix 1*.

No	Hostname-	Hostname-DR	Application	IP	Netmask	IP	Netmas	Default	Server Serial
	DR lan	backup lan		Address-Pr		Address-	k	Gateway	Number
				oduction		backup			
1.	KFHIB13	KFHIB13-b	Sun One Web	192.168.1	255.255.255.	192.168.	255.255	192.168.151	NNL0914058
			server 6.1	51.1	128	3.13	.255.0	.123	
			SP10						
2	KFHIB14	KFHIB14-b	BroadVision	10.30.208.	255.255.255.	192.168.	255.255	10.30.208.1	NNL092303H
			Portal 8.1	1	128	3.14	.255.0	26	
			(running on						
			top of JBoss)						
3	KFHIB15	KFHIB15-b	Intergration	10.30.208.	255.255.255.	192.168.	255.255	10.30.208.1	NNL0923034
			/ ESB	2	128	3.15	.255.0	26	
4	KFHIB16	KFHIB16-b	Oracle 10g	10.30.208.	255.255.255.	192.168.	255.255	10.30.208.1	NNL0914056
				3	128	3.16	.255.0	26	
5	KFHIB17	KFHIB17-b	Veritas	10.30.208.	255.255.255.	192.168.	255.255	10.30.208.1	NNL0923033
			backup	4	128	3.17	.255.0	26	
			server						





APPENDIX 2 – SYSTEM READINESS

System readiness checklist

Server Readiness	Description	Remark
Web Server	System Specification Ready	
	Power Redundancy Ready	
	NIC Teaming Ready	
	Software RAID Ready	
	Backup LAN Ready	
Application Server	System Specification Ready	
	Power Redundancy Ready	
	NIC Teaming Ready	
	Software RAID Ready	
	Backup LAN Ready	
Integration/Authentication Server	System Specification Ready	
	Power Redundancy Ready	
	NIC Teaming Ready	
	Software RAID Ready	
	Backup LAN Ready	
Database Server	System Specification Ready	
	Power Redundancy Ready	
	NIC Teaming Ready	
	Software RAID Ready	
	Backup LAN Ready	
Veritas Netbackup Server	System Specification Ready	
	Power Redundancy Ready	
	NIC Teaming Ready	
	Software RAID Ready	
	Backup LAN Ready	





Web Server Readiness

System Specification Ready

Test: DR Web Server	Type of Test: Server Spec	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To verify the server specification				
Pre-requisites	The system has been configured				
Test Procedures	Execute specific command eg: a) Prtdiag b) Cat /et/release c) Prtconf grep Memory d) Format e) Ifconfig –a f) Netstat -rn				
Expected Result	All specification matches with expected result.				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number : Verify by :

I, Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

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Name :
Signature :
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Power Redundancy Ready

Test: DR Web Server	Type of Test: Power redundancy	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	Test power redundancy for each of servers				
Pre-requisites	All servers should connected to the power				
Test Procedures	Unplug one cable on each system				
Expected Result	The system should stay powered up and working fine				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

:

Verify by

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.
Name :
Signature :



NIC Teaming Ready

Test: DR Web Server	Type of Test: Network	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To test the NIC teaming configuration				
Pre-requisites	NIC team configured				
Test Procedures	 a. Logon any system b. Open terminal and ping any servers c. Unplug one of the network cable from the system d. The ping process should show the connection is ok e. Plug back and try another cable 				
Expected Result	The connection should stay connected				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number :

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Verify by

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Name





Software RAID Ready

Test: DR Web server	Type of Test: System Reboot Integrity	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This test is to demonstrate the successful normal boot of the system				
Pre-requisites	System has been configured with RAID 1				
Test Procedures	 a. Connect to the system using the management console b. Shut down any application or database running on this system c. Shut down the server d. Boot the system again 				
Expected Result	The system should successful boot from the mirror disk without any error				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

:

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SBU/Name	:
Contact Number	:

Verify by

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Name





Backup LAN Ready

Test: DR Web server	Type of Test: Backup LAN	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This standard test for backup LAN configuration to ensure all production servers are configured in Backup LAN				
Pre-requisites	Backup LAN configured				
Test Procedures	a. Logon to the kfhib13b. Ping each of the servers				
Expected Result	All servers are ping able				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

:

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Verify by

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Name





Application Server Readiness

System Specification Ready

Test: DR Application Server	Type of Test: Server Spec	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To verify the server specification				
Pre-requisites	The system has been configured				
Test Procedures	Execute specific command eg: g) Prtdiag h) Cat /et/release i) Prtconf grep Memory j) Format k) Ifconfig –a l) Netstat -rn				
Expected Result	All specification matches with expected result.				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number : Verify by :

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name : Signature :





Power Redundancy Ready

Test: DR Application Server	Type of Test: Power redundancy	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	Test power redundancy for each of servers				
Pre-requisites	All servers should connected to the power				
Test Procedures	Unplug one cable on each system				
Expected Result	The system should stay powered up and working fine				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

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Verify by

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Name :
Signature :



NIC Teaming Ready

Test: DR Application Server	Type of Test: Network	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To test the NIC teaming configuration				
Pre-requisites Test Procedures	 NIC team configured a. Logon any system b. Open terminal and ping any servers c. Unplug one of the network cable from the system d. The ping process should show the connection is ok 				
	e. Plug back and try another cable				
Expected Result	The connection should stay connected				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number :

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Verify by

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Name





Software RAID Ready

Test: DR Application server	Type of Test: System Reboot Integrity	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This test is to demonstrate the successful normal boot of the system				
Pre-requisites	System has been configured with RAID 1				
Test Procedures	 a. Connect to the system using the management console b. Shut down any application or database running on this system c. Shut down the server d. Boot the system again 				
Expected Result	The system should successful boot from the mirror disk without any error				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

:

SBU/Name	:
Contact Number	:

Verify by

I, Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name

Signature

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Backup LAN Ready

Test: DR Application server	Type of Test: Backup LAN	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This standard test for backup LAN configuration to ensure all production servers are configured in Backup LAN				
Pre-requisites	Backup LAN configured				
Test Procedures	c. Logon to the kfhib14d. Ping each of the servers				
Expected Result	All servers are ping able				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :SBU/Name:Contact Number:

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Verify by

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I ,Hereby co successfully	nfirm that the above Pre-Disaster Recovery Plan verification test have been completed.
Name	:
Signature	:





Integration/Authentication Server Readiness

System Specification Ready

Test: Integration/Authentication Server	Type of Test: Server Spec	Testi ng time	Status Ok or not	Action by /Initial	Remarks
Test Description	To verify the server specification				
Pre-requisites	The system has been configured				
Test Procedures	Execute specific command eg: m) Prtdiag n) Cat /et/release o) Prtconf grep Memory p) Format q) Ifconfig –a r) Netstat -rn				
Expected Result	All specification matches with expected result.				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number : Verify by :

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name : Signature :





Power Redundancy Ready

Test: DR Integration/Authentication Server	Type of Test: Power redundancy	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	Test power redundancy for each of servers				
Pre-requisites	All servers should connected to the power				
Test Procedures	Unplug one cable on each system				
Expected Result	The system should stay powered up and working fine				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

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Verify	by		
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I, Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

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NIC Teaming Ready

Test: DR Integration/Authen tication Server	Type of Test: Network	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To test the NIC teaming configuration				
Pre-requisites	NIC team configured				
Test Procedures	 a. Logon any system b. Open terminal and ping any servers c. Unplug one of the network cable from the system d. The ping process should show the connection is ok e. Plug back and try another cable 				
Expected Result	The connection should stay connected				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number :

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Verify by

I, Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Software RAID Ready

Test: DR Integration/Authentication Server	Type of Test: System Reboot Integrity	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This test is to demonstrate the successful normal boot of the system				
Pre-requisites	System has been configured with RAID 1				
Test Procedures	 a. Connect to the system using the management console b. Shut down any application or database running on this system c. Shut down the server d. Boot the system again 				
Expected Result	The system should successful boot from the mirror disk without any error				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

:

SBU/Name : Contact Number :

Verify by

I ,Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name

Signature

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Backup LAN Ready

Test: DR Integration/Authentication Server	Type of Test: Backup LAN	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This standard test for backup LAN configuration to ensure all production servers are configured in Backup LAN				
Pre-requisites	Backup LAN configured				
Test Procedures	e. Logon to the kfhib15f. Ping each of the servers				
Expected Result	All servers are ping able				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

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Verify by

I, Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Database Server Readiness

System Specification Ready

Test: DR DataBase Server	Type of Test: Server Spec	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To verify the server specification				
Pre-requisites	The system has been configured				
Test Procedures	Execute specific command eg: s) Prtdiag t) Cat /et/release u) Prtconf grep Memory v) Format w) Ifconfig –a x) Netstat -rn				
Expected Result	All specification matches with expected result.				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number : Verify by :

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name : Signature :





Power Redundancy Ready

Test: DR DataBase Server	Type of Test: Power redundancy	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	Test power redundancy for each of servers				
Pre-requisites	All servers should connected to the power				
Test Procedures	Unplug one cable on each system				
Expected Result	The system should stay powered up and working fine				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

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Verify by

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.
Name :
Signature :



NIC Teaming Ready

Test: DR DataBase Server	Type of Test: Network	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To test the NIC teaming configuration				
Pre-requisites Test Procedures	 NIC team configured a. Logon any system b. Open terminal and ping any servers c. Unplug one of the network cable from the system d. The ping process should show the connection is ok e. Plug back and try another cable 				
Expected Result	The connection should stay connected				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :SBU/Name:Contact Number:

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Verify by

I, Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Software RAID Ready

Test: DR DataBase Server	Type of Test: System Reboot Integrity	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This test is to demonstrate the successful normal boot of the system				
Pre-requisites	System has been configured with RAID 1				
Test Procedures	 a. Connect to the system using the management console b. Shut down any application or database running on this system c. Shut down the server d. Boot the system again 				
Expected Result	The system should successful boot from the mirror disk without any error				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name : Contact Number : Verify by :

:

:

I ,Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Backup LAN Ready

Test: DR Database Server	Type of Test: Backup LAN	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This standard test for backup LAN configuration to ensure all production servers are configured in Backup LAN				
Pre-requisites	Backup LAN configured				
Test Procedures	g. Logon to the kfhib17h. Ping each of the servers				
Expected Result	All servers are ping able				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

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Verify by

I, Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Veritas Netbackup Server

System Specification Ready

Test: DR Veritas Netbackup Server	Type of Test: Server Spec	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To verify the server specification				
Pre-requisites	The system has been configured				
Test Procedures	Execute specific command eg: y) Prtdiag z) Cat /et/release aa) Prtconf grep Memory bb) Format cc) Ifconfig –a dd) Netstat -rn				
Expected Result	All specification matches with expected result.				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge : SBU/Name : Contact Number :

Verify by	:
I ,Here by cor successfully o	nfirm that the above Pre-Disaster Recovery Plan verification test have been completed.
Name Signature	:





Power Redundancy Ready

Test: DR Veritas Netbackup Server	Type of Test: Power redundancy	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	Test power redundancy for each of servers				
Pre-requisites	All servers should connected to the power				
Test Procedures	Unplug one cable on each system				
Expected Result	The system should stay powered up and working fine				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

:

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Verify by

I, Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name



NIC Teaming Ready

Test: DR Veritas Netbackup Server	Type of Test: Network	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	To test the NIC teaming configuration				
Pre-requisites	NIC team configured				
Test Procedures	 a. Logon any system b. Open terminal and ping any servers c. Unplug one of the network cable from the system d. The ping process should show the connection is ok e. Plug back and try another cable 				
Expected Result	The connection should stay connected				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :SBU/Name:Contact Number:

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Verify by

I ,Here by confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Software RAID Ready

Test: DR Veritas Netbackup Server	Type of Test: System Reboot Integrity	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This test is to demonstrate the successful normal boot of the system				
Pre-requisites	System has been configured with RAID 1				
Test Procedures	 a. Connect to the system using the management console b. Shut down any application or database running on this system c. Shut down the server d. Boot the system again 				
Expected Result	The system should successful boot from the mirror disk without any error				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

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:

SBU/Name : Contact Number : Verify by :

I, Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





Backup LAN Ready

Test: DR Veritas Master Server	Type of Test: Backup LAN	Testing time	Status Ok or not	Action by /Initial	Remarks
Test Description	This standard test for backup LAN configuration to ensure all production servers are configured in Backup LAN				
Pre-requisites	Backup LAN configured				
Test Procedures	i. Logon to the kfhib18j. Ping each of the servers				
Expected Result	All servers are ping able				
Date					
Performed by					
Actual Result	Passed / Failed / Waived / Postponed				
Notes					

Name of person in charge :

SBU/Name	:
Contact Number	:

:

:

Verify by

I, Hereby confirm that the above Pre-Disaster Recovery Plan verification test have been successfully completed.

Name





2.2 Acceptance Signoff

KFHMB and Penril Datability S/B hereby acknowledge, by signing in the appropriate fields below that they have successfully completed the UAT System & Hardware Procedure contained in this document.

(uwait Finance House بيت التموير الكوية

Kuwait Finance House (M) Berhad Representative



Penril Datability Sdn Bhd Representative

Name	:	Name	:	
Designation	:	Designation	:	
Time	:	Time	: -	
Date	:	Date	: _	
Signature	:	Signature	:	
			_	
Company Stamp	:	Company Stamp	_	