

2.0	iASP introduction	4
2.1	iASP what is about?.....	4
2.2	iASP advantages	4
2.2.1	What can be achieved with PowerHA.....	5
2.3	IBM i and disk pools.....	5
2.4	iASP specification.....	6
2.5	Securing of iASP	6
2.6	Many iASP and namespace	7
2.7	iASP supported objects	7
2.8	System values	8
2.9	Libraries in an iASP.....	8
2.10	IFS in an IASP	8
3.0	Exercise 1 - Create an iASP.....	8
4.0	Migration to iASP	9
4.1	Libraries on iASP.....	9
4.2	IFS on iASP	10
4.3	iASP Migration	11
4.4	System libraries on iASP	12
5.0	Exercise 2 - Storage configuration.....	12
6.0	Connecting to iASP	13
6.0.1	Job initiation	15
6.0.2	Namespace assignment to a job.....	15
6.0.3	Namespace assignment to a subsystem	16
6.0.4	Errors when iASP not available	16
6.0.5	Commands which does need the namespace.....	16
6.0.6	Submitting jobs.....	16
6.0.7	JOBQs and iASP	17
6.0.8	Job scheduler	17
6.1	Accessing iASP.....	17
6.1.1	Accessing from SQL	19
6.1.2	Remote access	19
6.1.3	FTP connection.....	19
6.1.4	Access Client Solution	19
6.1.5	DDM.....	20
6.2	Working with spool files and iASP	20
7.0	Managing iASP	21
7.0.1	Vary on	21
7.0.2	Vary off	22
7.0.3	Show jobs using iASP	22
7.0.4	Suspend IO activity for iASP jobs	22
7.0.5	Exit programs	22
7.0.6	Journaling	22
7.0.7	User profiles and iASP	24
7.0.8	Reclaim storage and iASP	25
7.0.9	Capacity consideration	25
7.1	Saving objects on iASP.....	25
7.2	Restoring to iASP	26

8.0	PowerHA solutions and clustering introduction	26
8.1	Cluster heartbeat	27
8.2	IBM PowerHA editions	27
8.3	PowerHA licensing	27
8.4	PowerHA solutions and compatibility	28
9.0	Replication solutions and PowerHA elements.....	29
9.1	Geographic mirroring	29
9.2	Metro Mirror	30
9.3	Hyperswap	31
9.4	Global Mirror	32
9.5	LUN level switching.....	33
9.6	Full System Replication.....	34
9.7	Software replication.....	35
9.8	IBM DB2 Mirror.....	36
9.9	FlashCopy	37
9.10	Full System Copy Services Manager.....	38
9.11	Administrative domain	39
9.12	ASP copy descriptions	39
9.13	ASP sessions	39
10.0	Cluster.....	40
10.1	Prerequisites.....	41
10.2	Exercise 3 - Create Cluster	42
10.3	Exercise 4 - Switch MMIR	43
10.4	Exercise 5 - Switch MMIR and monitor MSGQ	43
10.5	Exercise 6 - Simulate cluster failover when IP communication fails	44
10.6	Exercise 7 - Simulate cluster failover when system outage.....	44
10.7	Cluster information	44
10.8	Commands which trigger automatic CRG failover	45
10.9	Cluster recovery.....	45
10.9.1	Cluster partition	46
10.9.2	Cluster partition caused by node failure.....	47
10.9.3	Cluster partition caused by communication failure.....	47
10.10	How to power off a cluster node correctly.....	47
10.11	Adding new nodes to the cluster.....	47
10.12	Removing nodes from the cluster	48
10.13	Deleting the cluster	48
10.14	Changing cluster version	48
11.0	Administrative Domain.....	49
12.0	Exercise 8 - Create Administrative Domain	50
13.0	PowerHA policies	50
14.0	PowerHA SQL Services	52
15.0	Storwize storage family	53
15.1	Thin provision.....	53
15.2	Compression	54

16.0	IBM DS8k storage family	54
16.1	Volumes on DS8k	54
16.2	Variable LUN size	55
16.3	Dynamic LUN expansion	55
17.0	Exercise 15 - Register PowerHA policy	55
18.0	Exercise 16 - Run PowerHA SQL Service	55
19.0	Exercise 17 - Recreate cluster environment with latest PTF	56
20.0	Exercise 18 - Create FlashCopy configuration	57