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SECTION A: Service Details

Service No.	KSP10	Date	12 April 2023
Name	Nik Alif	Location	Remote
Agency	Majlis Daerah Gerik		
Priority	[] High [X] Medium [] Low		
Time			
Types of Support Services	<p><i>Please mark [X], can be many :</i></p> <p>[] Operating System Software Maintenance Services, Software Components;</p> <p>[] Database Application System and Server Server Software;</p> <p>[] System Cleaning Maintenance Services;</p> <p>[] Basic System and Database Application Tuning Services;</p> <p>[X] System Usage Monitoring.</p> <p>Other, please specify : _____</p>		

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SECTION B: Corrective Maintenance

No action require



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SECTION C : Software Maintenance Checklist

Kindly refer **Appendix Section C (Screenshot)** for result details.

No	Service	Description	Item	Allocated	Usage (GB & %)	Balance (GB & %)	Status	Action	
1.	NAS SERVER	Monitor usage (over 75%)	CPU	100%	9%	91%	OK		
2.			RAM	100%	14%	86%	OK		
3.			STORAGE						
			Volume 1	324.70GB	256.37GB	68.33GB	NOT OK		
			Volume 2	167.21GB	11.10GB	156.11GB	OK		
			Volume 3	58.93GB	168.08MB	58.76GB	OK		
			Volume 4	1.25TB	500.19GB	749.81GB	OK		
4.	TOMCAT SERVER	Monitor usage (over 75%)	CPU	100%	0%	100%	OK		
5.			RAM	62GB	10GB	52GB	OK		



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6.			STORAGE					
			/	20GB	7.9GB	11GB	OK	
			/dev/shm	32GB	0	32GB	OK	
			/boot	477MB	75MB	373MB	OK	
			/opt	20GB	8.2GB	11GB	OK	
			/webdata	11GB	27MB	9.6GB	OK	
			/data/mysql	50GB	163MB	47GB	OK	
			/mysql_OLbkp	59GB	53MB	59GB	OK	
	DATABASE SERVER	Monitor usage (over 75%)	CPU	100%	0%	100%	OK	
			RAM	38GB	22GB	15GB	OK	
7.			STORAGE					



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			/	29GB	9.3GB	18GB	OK	
			/tmp	7.8GB	147MB	7.3GB	OK	
			/boot	190MB	24MB	158MB	OK	
			/dev/shm	20GB	0	20GB	OK	
			/oracle	50GB	7.4GB	40GB	OK	
			/oradata1	30GB	4.2GB	24GB	OK	
			/oradata2	30GB	6.3GB	22GB	OK	
			/oradata3	30GB	4.2GB	24GB	OK	
			/epbt	60GB	27GB	30GB	OK	
			/ora_bkp	325GB	257GB	68GB	OK	

Section D : Check Backup Database

Last Backup Date : 11 April 2023

Name	Size	File Type	Modified Date
<input type="checkbox"/> MDG_20230411-2000.log	246 KB	LOG File	4/11/2023, 8:07:03 PM
<input checked="" type="checkbox"/> MDG_20230411-2000.dm...	333.4 MB	GZ File	4/11/2023, 8:07:03 PM
<input type="checkbox"/> MDG_20230410-2000.log	246 KB	LOG File	4/10/2023, 8:07:03 PM
<input checked="" type="checkbox"/> MDG_20230410-2000.dm...	333.3 MB	GZ File	4/10/2023, 8:07:03 PM
<input type="checkbox"/> MDG_20230407-2000.log	246 KB	LOG File	4/7/2023, 8:06:13 PM
<input checked="" type="checkbox"/> MDG_20230407-2000.dm...	333.3 MB	GZ File	4/7/2023, 8:06:13 PM
<input type="checkbox"/> MDG_20230406-2000.log	246 KB	LOG File	4/6/2023, 8:05:47 PM
<input checked="" type="checkbox"/> MDG_20230406-2000.dm...	333.3 MB	GZ File	4/6/2023, 8:05:47 PM
<input type="checkbox"/> MDG_20230405-2000.log	246 KB	LOG File	4/5/2023, 8:05:57 PM
<input checked="" type="checkbox"/> MDG_20230405-2000.dm...	333.3 MB	GZ File	4/5/2023, 8:05:57 PM
<input type="checkbox"/> MDG_20230404-2000.log	246 KB	LOG File	4/4/2023, 8:05:29 PM
<input checked="" type="checkbox"/> MDG_20230404-2000.dm...	333.2 MB	GZ File	4/4/2023, 8:05:29 PM
<input type="checkbox"/> MDG_20230403-2000.log	246 KB	LOG File	4/3/2023, 8:06:55 PM
<input checked="" type="checkbox"/> MDG_20230403-2000.dm...	333.2 MB	GZ File	4/3/2023, 8:06:55 PM

Section E : Note to PBT

No note or remark to PBT

Appendix Section C (Screenshot)



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C.1 NAS Server - CPU and RAM



C.3 NAS Server- Storage

	Volume 1 - Normal Located on Disk Group 1, RAID 1, ext4	256.37 GB / 324.70 GB	▼
	Volume 2 - Normal Located on Disk Group 1, RAID 1, ext4	11.10 GB / 167.21 GB	▼
	Volume 3 - Normal Located on Disk Group 1, RAID 1, ext4	168.08 MB / 58.93 GB	▼
	Volume 4 - Normal Located on Disk Group 1, RAID 1, ext4	500.19 GB / 1.25 TB	▼



C.4 Tomcat Server- CPU

```
top - 01:53:35 up 8 days, 17:15, 1 user, load average: 0.22, 0.06, 0.06
Tasks: 238 total, 1 running, 237 sleeping, 0 stopped, 0 zombie
Cpu(s):  0.0%us,  0.0%sy,  0.0%ni, 99.9%id,  0.0%wa,  0.0%hi,  0.0%si,  0.0%st
Mem: 65698664k total, 10784472k used, 54914192k free, 232436k buffers
Swap: 10485756k total, 0k used, 10485756k free, 1300032k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
49048	root	20	0	17292	2156	1728	R	0.7	0.0	0:00.03	top
5745	root	20	0	29.2g	8.1g	16m	S	0.3	12.9	45:10.21	java
1	root	20	0	23556	2424	2092	S	0.0	0.0	0:05.12	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.05	ksoftirqd/0
5	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
6	root	20	0	0	0	0	S	0.0	0.0	0:04.84	kworker/u256:0
7	root	20	0	0	0	0	S	0.0	0.0	0:48.01	rcu_sched
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	20	0	0	0	0	S	0.0	0.0	0:33.46	rcuos/0
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcuob/0
11	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
12	root	RT	0	0	0	0	S	0.0	0.0	0:02.94	watchdog/0
13	root	RT	0	0	0	0	S	0.0	0.0	0:02.75	watchdog/1
14	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/1
15	root	20	0	0	0	0	S	0.0	0.0	0:00.12	ksoftirqd/1
17	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/1:0H

C.5 Tomcat Server- RAM

```
[root@V-PRKMDG-ePBTApp ~]# free -h
              total        used         free       shared    buffers       cached
Mem:           62G         10G         52G          196K        226M         1.2G
-/+ buffers/cache:      8.8G         53G
Swap:           9G           0B           9G
```

C.6 Tomcat Server- Storage

```
[root@V-PRKMDG-ePBTApp ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/vg_root-rootvol
                20G   7.9G   11G   44% /
tmpfs           32G   0      32G   0%  /dev/shm
/dev/xvda1      477M   75M   373M  17% /boot
/dev/mapper/vg_root-optvol
                20G   8.2G   11G   45% /opt
/dev/mapper/vg_root-webdatavol
                11G   27M   9.6G   1% /webdata
/dev/mapper/vg_data-datavol
                50G  163M   47G   1% /data/mysql
10.60.20.29:/volume3/mysql_OLbkp
                59G   53M   59G   1% /mysql_OLbkp
```




C.7 DATABASE Server- CPU

```
top - 09:31:47 up 11 days, 53 min, 1 user, load average: 0.05, 0.01, 0.00
Tasks: 463 total, 1 running, 460 sleeping, 0 stopped, 2 zombie
Cpu(s): 0.0%us, 0.1%sy, 0.0%ni, 99.9%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 40298152k total, 23697780k used, 16600372k free, 370744k buffers
Swap: 29360112k total, 0k used, 29360112k free, 21605144k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
7194	root	20	0	15084	1464	872	R	1.0	0.0	0:00.30	top
3417	oracle	20	0	9785m	46m	42m	S	0.3	0.1	14:21.95	oracle
1	root	20	0	12428	740	616	S	0.0	0.0	0:07.79	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.03	kthreadd
3	root	RT	0	0	0	0	S	0.0	0.0	0:00.05	migration/0
4	root	20	0	0	0	0	S	0.0	0.0	0:00.13	ksoftirqd/0
5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/0
6	root	RT	0	0	0	0	S	0.0	0.0	0:00.07	migration/1
7	root	20	0	0	0	0	S	0.0	0.0	0:00.11	ksoftirqd/1
8	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/1
9	root	RT	0	0	0	0	S	0.0	0.0	0:00.25	migration/2
10	root	20	0	0	0	0	S	0.0	0.0	0:00.26	ksoftirqd/2
11	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/2
12	root	RT	0	0	0	0	S	0.0	0.0	0:00.22	migration/3
13	root	20	0	0	0	0	S	0.0	0.0	0:00.14	ksoftirqd/3
14	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/3
15	root	RT	0	0	0	0	S	0.0	0.0	0:00.08	migration/4

C.8 DATABASE Server- RAM

```
[root@V-PRKMDG-ePBTDB ~]# free -g
```

	total	used	free	shared	buffers	cached
Mem:	38	22	15	0	0	20
-/+ buffers/cache:		1	36			
Swap:	27	0	27			

You have new mail in /var/spool/mail/root

```
[root@V-PRKMDG-ePBTDB ~]#
```

C.9 DATABASE Server- Storage

```
[root@V-PRKMDG-ePBTDB ~]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/mapper/rootdg-rootvol	29G	9.3G	18G	35%	/
/dev/mapper/rootdg-tmpvol	7.8G	147M	7.3G	2%	/tmp
/dev/xvda1	190M	24M	158M	13%	/boot
tmpfs	20G	0	20G	0%	/dev/shm
/dev/mapper/oradg-oracle	50G	7.4G	40G	16%	/oracle
/dev/mapper/oradg-oradata1	30G	4.2G	24G	15%	/oradata1
/dev/mapper/oradg-oradata2	30G	6.3G	22G	23%	/oradata2
/dev/mapper/oradg-oradata3	30G	4.2G	24G	15%	/oradata3
/dev/mapper/oradg-epbt	60G	27G	30G	47%	/epbt
10.60.20.29:/volumel/ora_bkp	325G	257G	68G	80%	/ora_bkp

```
[root@V-PRKMDG-ePBTDB ~]#
```