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System Intelligence Report

SQL Server Diagnostic & Performance Report

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System Diagnostic Report Analysis

1. Overall Health Summary

- **Database States:** All databases are online with a mix of recovery models (SIMPLE and FULL).
- **CPU Usage:** SQL Server process CPU utilization is consistently at 0%. High system idle indicates minimal database activity.
- **Memory Usage:** Committed memory (8035 MB) is below available physical memory (16383 MB), indicating no immediate memory pressure.
- **TempDB Usage:** Free space available (approx. 95 MB), which is critical; consider increasing TempDB data files if high usage is expected.

ected.

- **Waits:** Significant waits recorded for several types, notably `HADR_FILESTREAM_IOMGR_IOCOMPLETION` and ``SP_SERVER_DIAGNOSTICS_SLEEP``, indicating potential IO-related blocking or inefficiencies.

P`, indicating potential IO-related blocking or inefficiencies.

- **Backups:** Critical issue—most databases lack recent backups (LastBackupFinishDate is None). This poses a significant risk for data

recovery.

2. Performance Issues and Bottlenecks

- **CPU:** Over the last hour, the SQL Server CPU showed 0% usage; thus, no CPU bottleneck is present.
- **Memory:** While there is no immediate memory pressure, the TempDB is critically low on free space, which can lead to performance de

gradation.

- **IO:** Long wait times primarily associated with `HADR_FILESTREAM_IOMGR_IOCOMPLETION` and `DIRTY_PAGE_POLL`, indicating potential IO

issues.

- The significant wait times on `DIRTY_PAGE_POLL` suggest that the system is experiencing delays in writing dirty pages to disk, pot

entially from disk latency or high write operations.

- **Blocking:** No information on current blocking or deadlocks provided but consider looking into wait stats related to blocking once

high activity resumes.

- **Backups:** Critical databases have no backups, indicating severe operational risk for potential data loss.

3. Immediate and Long-term Recommendations

Immediate Actions:

- **Backup all databases** urgently to mitigate the risk of data loss. Set up a scheduled backup process immediately.
- **Monitor TempDB usage** closely; consider increasing the number of data files to improve performance and prevent contention in the s

hort term.

Long-term Strategies:

- **Review and optimize queries** that contribute to high wait times. Implement missing index suggestions to improve performance in frequently accessed tables.
- **Implement resource governance** policies to control TempDB space and prevent exhaustion.
- **Set up maintenance plans** for regular database backups, integrity checks, and index maintenance.

4. TODO List for Each Database

- **backup-ribeira-pombal-07-06-2023:**

```
BACKUP DATABASE [backup-ribeira-pombal-07-06-2023] TO DISK =  
N'path_to_backup\backup-ribeira-pombal-07-06-2023.bak';
```

- **bancario_valenca_25112022:**

```
BACKUP DATABASE [bancario_valenca_25112022] TO DISK =  
N'path_to_backup\bancario_valenca_25112022.bak';
```

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- **base_texto_main:**

```
BACKUP DATABASE [base_texto_main] TO DISK = N'path_to_backup\base_texto_main.bak';
```

- **carta_servico:**

```
BACKUP DATABASE [carta_servico] TO DISK = N'path_to_backup\carta_servico.bak';
```

- **Install missing indexes** for optimal performance once backups are secured; for example:

```
CREATE INDEX [IX_IO_CONTADOR_cod_cliente] ON [transparencia].[dbo].[IO_CONTADOR]  
([cod_cliente]) INCLUDE ([des_data]);  
CREATE INDEX [IX_tb_sig_salario2_cod_importacao_imp] ON [sig].[dbo].[tb_sig_salario2]  
([cod_importacao_imp]);
```

This report outlines a clear path to stabilize the SQL Server environment, ensuring data protection and improving performance efficiency.

Immediate action on backups is critical to maintaining availability and compliance.

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