

# Artigo: Envio de Logs



## Pré-Requisitos

Agent Instalado

Realizar clone de servidor SQL-LNX-01 para SQL-LNX-02  
Configurar o servidor **Secundário**, pós clone

No SQL Server Management Studio, alterar nome do servidor SQL Server

```
sp_dropserver 'SQL-LNX-01';  
GO  
sp_addserver 'SQL-LNX-02', local;  
GO  
--reinicia o banco e verifica novamente  
--no linux  
sudo systemctl restart mssql-server  
  
--SSMS  
select @@SERVERNAME
```

No linux

Alterar IP

```
sudo vim /etc/network/interfaces
```

alterar ip de 192.168.0.100 para 192.168.0.200

Alterar arquivos host e hostname

```
sudo vim /etc/hosts
```

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Alterar SQL-LNX-01 para **SQL-LNX-02**

```
sudo vim /etc/hostname
```

Alterar SQL-LNX-01 para **SQL-LNX-02**

## Alterar Porta SQL Server **primário**

**--Use mssql conf para alterar o diretório de dados padrão com o definir comando:**

```
sudo /opt/mssql/bin/mssql-conf unset network.tcpport
```

**--Use mssql conf para alterar o o limite de memória:**

```
sudo /opt/mssql/bin/mssql-conf set memory.memorylimitmb 2048
```

**--Reinicie SQLserver**

```
sudo systemctl restart mssql-server
```

## Alterar Porta SQL Server **Secundário**

**--Use mssql conf para alterar o diretório de dados padrão com o definir comando:**

```
sudo /opt/mssql/bin/mssql-conf unset network.tcpport
```

**--Use mssql conf para alterar o o limite de memória:**

```
sudo /opt/mssql/bin/mssql-conf set memory.memorylimitmb 2048
```

**--Reinicie SQLserver**

```
sudo systemctl restart mssql-server
```

## Configurar o servidor **primário**

**Instalar Samba (OBS Já instalado) apenas configurar**

```
sudo apt-get install samba
```

**Crie um diretório para armazenar os logs de envio de logs e dê mssql as permissões necessárias**

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```
mkdir /datafiles/tlogs  
sudo chown mssql:mssql /datafiles/tlogs  
sudo chmod 0700 /datafiles/tlogs
```

**Edite o arquivo /etc/samba/smb.conf (você precisa de permissões de raiz para que) e adicione a seção a seguir:**

```
sudo vim /etc/samba/smb.conf
```

```
[tlogs]
```

```
path=/datafiles/tlogs
```

```
available=yes
```

```
read only=yes
```

```
browsable=yes
```

```
public=yes
```

```
writable=no
```

**Criar um usuário mssql para Samba**

```
sudo smbpasswd -a mssql
```

**Reinicie os serviços Samba**

```
sudo systemctl restart smbd.service nmbd.service
```

```
--Verificar compartilhamento
```

```
testparm
```

## Configurar o servidor Secundário

**Instalar o cliente CIFS (Protocolo de compartilhamento)**

```
sudo apt-get install cifs-utils
```

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**Crie um arquivo para armazenar suas credenciais. Use a senha que recentemente definida para sua conta Samba mssql**

```
sudo vim /var/opt/mssql/.tlogcreds
#copie abaixo no arquivo .tlogcreds
```

```
username=mssql
domain=<domain>
password=<password>
```

**Execute os seguintes comandos para criar um diretório vazio para a montagem e definir a propriedade e permissão corretamente**

```
sudo mkdir /datafiles/tlogs
sudo chown root:root /datafiles/tlogs
sudo chmod 0550 /datafiles/tlogs
sudo chown root:root /var/opt/mssql/.tlogcreds
sudo chmod 0660 /var/opt/mssql/.tlogcreds
```

**Adicione a linha ao etc/fstab para manter o compartilhamento**

```
sudo vim /etc/fstab
```

**Exemplo**

```
//<ip_address_of_primary_server>/tlogs /datafiles/tlogs cifs
credentials=/var/opt/mssql/.tlogcreds,ro,uid=mssql,gid=mssql 0 0
```

**Configuração**

```
//192.168.0.100/tlogs /datafiles/tlogs cifs credentials=/var/opt/mssql/.tlogcreds,ro,uid=mssql,gid=mssql 0 0
```

**Montar os compartilhamentos**

```
sudo mount -a
```

```
df -h
```

## Instalação via T-SQL de envio de logs (servidor **primário**)

**Criar um banco de dados**

```
--servidor Primario
--cria database
CREATE DATABASE homolog
```

```
go
```

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```
USE homolog

go

--cria tabela
CREATE TABLE dados
(
    id    INT IDENTITY(1, 1),
    nome  VARCHAR (50)
)

--insere dados
INSERT INTO dados
VALUES      ('João'),
            ('Pedro'),
            ('Maria')
```

## Execute este script em seu servidor primário

\*\*\*\*\* Início: Script a ser executado no Primário: [192.168.0.100] \*\*\*\*\*

```
-- Executar as seguintes instruções no Primário para configurar o Envio de Logs
-- para o banco de dados [192.168.0.100].[homolog],
-- O script precisa ser executado no Primário, no contexto do banco de dados [msdb].
-----
-- Adicionando a configuração de Envio de Log

-- ***** Início: Script a ser executado no Primário: [192.168.0.100] *****
```

```
BACKUP DATABASE homolog
TO DISK = '/datafiles/tlogs/homolog_teste.bak'
GO
```

```
DECLARE @LS_BackupJobId    AS uniqueidentifier
DECLARE @LS_PrimaryId      AS uniqueidentifier
DECLARE @SP_Add_RetCode    As int
```

```
EXEC @SP_Add_RetCode = master.dbo.sp_add_log_shipping_primary_database
    @database = N'homolog'
    ,@backup_directory = N'/datafiles/tlogs'
    ,@backup_share = N'/datafiles/tlogs'
    ,@backup_job_name = N'LSBackup_homolog'
    ,@backup_retention_period = 4320
    ,@backup_compression = 2
    ,@backup_threshold = 60
    ,@threshold_alert_enabled = 1
    ,@history_retention_period = 5760
    ,@backup_job_id = @LS_BackupJobId OUTPUT
    ,@primary_id = @LS_PrimaryId OUTPUT
    ,@overwrite = 1
```

```
IF (@@ERROR = 0 AND @SP_Add_RetCode = 0)
```

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BEGIN

```
DECLARE @LS_BackUpScheduleUID      As uniqueidentifier
DECLARE @LS_BackUpScheduleID      AS int
```

```
EXEC msdb.dbo.sp_add_schedule
    @schedule_name = N'LSBackupSchedule'
    ,@enabled = 1
    ,@freq_type = 4
    ,@freq_interval = 1
    ,@freq_subday_type = 4
    ,@freq_subday_interval = 15
    ,@freq_recurrence_factor = 0
    ,@active_start_date = 20181017
    ,@active_end_date = 99991231
    ,@active_start_time = 0
    ,@active_end_time = 235900
    ,@schedule_uid = @LS_BackUpScheduleUID OUTPUT
    ,@schedule_id = @LS_BackUpScheduleID OUTPUT
```

```
EXEC msdb.dbo.sp_attach_schedule
    @job_id = @LS_BackupJobId
    ,@schedule_id = @LS_BackUpScheduleID
```

```
EXEC msdb.dbo.sp_update_job
    @job_id = @LS_BackupJobId
    ,@enabled = 1
```

END

```
EXEC master.dbo.sp_add_log_shipping_alert_job
```

```
EXEC master.dbo.sp_add_log_shipping_primary_secondary
    @primary_database = N'homolog'
    ,@secondary_server = N'192.168.0.200'
    ,@secondary_database = N'homolog'
    ,@overwrite = 1
```

```
-- ***** Fim: Script a ser executado no Primário: [192.168.0.100] *****
```

## Instalação via T-SQL de envio de logs (servidor Secundário)

```
-- Executar as seguintes instruções no Secundário para configurar o Envio de Logs
-- para o banco de dados [192.168.0.200].[homolog],
-- o script precisa ser executado no Secundário, no contexto do banco de dados [msdb].
-----
-- Adicionando a configuração de Envio de Log
```

```
-- ***** Início: Script a ser executado no Secundário: [192.168.0.200] *****
```

```
RESTORE DATABASE homolog FROM DISK = '/datafiles/tlogs/homolog_teste.bak '
WITH NORECOVERY;
```

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```
DECLARE @LS_Secondary__CopyJobId AS uniqueidentifier
DECLARE @LS_Secondary__RestoreJobId AS uniqueidentifier
DECLARE @LS_Secondary__SecondaryId AS uniqueidentifier
DECLARE @LS_Add_RetCode AS int

EXEC @LS_Add_RetCode = master.dbo.sp_add_log_shipping_secondary_primary
    @primary_server = N'192.168.0.100'
    ,@primary_database = N'homolog'
    ,@backup_source_directory = N'/datafiles/tlogs'
    ,@backup_destination_directory = N'/datafiles/tlogs'
    ,@copy_job_name = N'LSCopy_homolog'
    ,@restore_job_name = N'LSRestore_homolog'
    ,@file_retention_period = 4320
    ,@overwrite = 1
    ,@copy_job_id = @LS_Secondary__CopyJobId OUTPUT
    ,@restore_job_id = @LS_Secondary__RestoreJobId OUTPUT
    ,@secondary_id = @LS_Secondary__SecondaryId OUTPUT

IF (@@ERROR = 0 AND @LS_Add_RetCode = 0)
BEGIN

DECLARE @LS_SecondaryCopyJobScheduleUID AS uniqueidentifier
DECLARE @LS_SecondaryCopyJobScheduleID AS int

EXEC msdb.dbo.sp_add_schedule
    @schedule_name = N'DefaultCopyJobSchedule'
    ,@enabled = 1
    ,@freq_type = 4
    ,@freq_interval = 1
    ,@freq_subday_type = 4
    ,@freq_subday_interval = 15
    ,@freq_recurrence_factor = 0
    ,@active_start_date = 20181017
    ,@active_end_date = 99991231
    ,@active_start_time = 0
    ,@active_end_time = 235900
    ,@schedule_uid = @LS_SecondaryCopyJobScheduleUID OUTPUT
    ,@schedule_id = @LS_SecondaryCopyJobScheduleID OUTPUT

EXEC msdb.dbo.sp_attach_schedule
    @job_id = @LS_Secondary__CopyJobId
    ,@schedule_id = @LS_SecondaryCopyJobScheduleID

DECLARE @LS_SecondaryRestoreJobScheduleUID AS uniqueidentifier
DECLARE @LS_SecondaryRestoreJobScheduleID AS int

EXEC msdb.dbo.sp_add_schedule
    @schedule_name = N'DefaultRestoreJobSchedule'
    ,@enabled = 1
    ,@freq_type = 4
    ,@freq_interval = 1
    ,@freq_subday_type = 4
    ,@freq_subday_interval = 15
    ,@freq_recurrence_factor = 0
    ,@active_start_date = 20181017
    ,@active_end_date = 99991231
```

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```
        ,@active_start_time = 0
        ,@active_end_time = 235900
        ,@schedule_uid = @LS_SecondaryRestoreJobScheduleUID OUTPUT
        ,@schedule_id = @LS_SecondaryRestoreJobScheduleID OUTPUT

EXEC msdb.dbo.sp_attach_schedule
        @job_id = @LS_Secondary__RestoreJobId
        ,@schedule_id = @LS_SecondaryRestoreJobScheduleID

END

DECLARE @LS_Add_RetCode2    As int

IF (@@ERROR = 0 AND @LS_Add_RetCode = 0)
BEGIN

EXEC @LS_Add_RetCode2 = master.dbo.sp_add_log_shipping_secondary_database
        @secondary_database = N'homolog'
        ,@primary_server = N'192.168.0.100'
        ,@primary_database = N'homolog'
        ,@restore_delay = 0
        ,@restore_mode = 0
        ,@disconnect_users = 0
        ,@restore_threshold = 45
        ,@threshold_alert_enabled = 1
        ,@history_retention_period = 5760
        ,@overwrite = 1

END

IF (@@error = 0 AND @LS_Add_RetCode = 0)
BEGIN

EXEC msdb.dbo.sp_update_job
        @job_id = @LS_Secondary__CopyJobId
        ,@enabled = 1

EXEC msdb.dbo.sp_update_job
        @job_id = @LS_Secondary__RestoreJobId
        ,@enabled = 1

END

-- ***** Fim: Script a ser executado no Secundário: [192.168.0.200] *****

--Restaurar quando Necessário

RESTORE DATABASE homolog WITH RECOVERY;
```

Verifique se o envio de Log funciona (servidor **Primário**)



# Artigo: Envio de Logs

```
USE msdb;  
GO  
  
EXEC dbo.sp_start_job N'LSBackup_homolog' ;  
GO
```

Verifique se o envio de Log funciona (servidor **Secundário**)

```
USE msdb ;  
GO  
  
EXEC dbo.sp_start_job N'LSCopy_homolog' ;  
  
GO  
  
EXEC dbo.sp_start_job N'LSRestore_homolog' ;  
  
GO  
  
RESTORE DATABASE homolog WITH RECOVERY;
```

## EXTRAS

Deletar Jobs de Log Shipping

### Servidor Primário

```
use master  
go  
EXEC dbo.sp_delete_log_shipping_primary_secondary  
    @primary_database = N'homolog' ,  
    @secondary_server = N'192.168.0.200',  
    @secondary_database = N'homolog';  
  
GO  
  
EXEC sp_delete_log_shipping_primary_database @database = N'homolog';  
GO  
  
EXEC dbo.sp_delete_log_shipping_primary_database @database = N'homolog';  
GO
```

### Servidor Secundario

```
use master  
go  
EXEC sp_delete_log_shipping_secondary_primary  
    @primary_server='192.168.0.100',  
    @primary_database='homolog'  
  
Exec sp_delete_log_shipping_secondary_database  
@secondary_database =N'homolog'
```

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```
EXEC sp_delete_log_shipping_alert_job;
```

--Tabelas de consultas LOG Shipping

```
use msdb
go
select * from log_shipping_monitor_alert
select * from log_shipping_monitor_error_detail
select * from log_shipping_monitor_history_detail
select * from log_shipping_monitor_primary
select * from log_shipping_monitor_secondary
select * from log_shipping_primary_databases
select * from log_shipping_primary_secondaries
select * from log_shipping_secondary
select * from log_shipping_secondary_databases
```

```
--delete
use msdb
go
delete from log_shipping_monitor_alert
delete from log_shipping_monitor_error_detail
delete from log_shipping_monitor_history_detail
delete from log_shipping_monitor_primary
delete from log_shipping_monitor_secondary
delete from log_shipping_primary_databases
delete from log_shipping_primary_secondaries
delete from log_shipping_secondary
delete from log_shipping_secondary_databases
```