



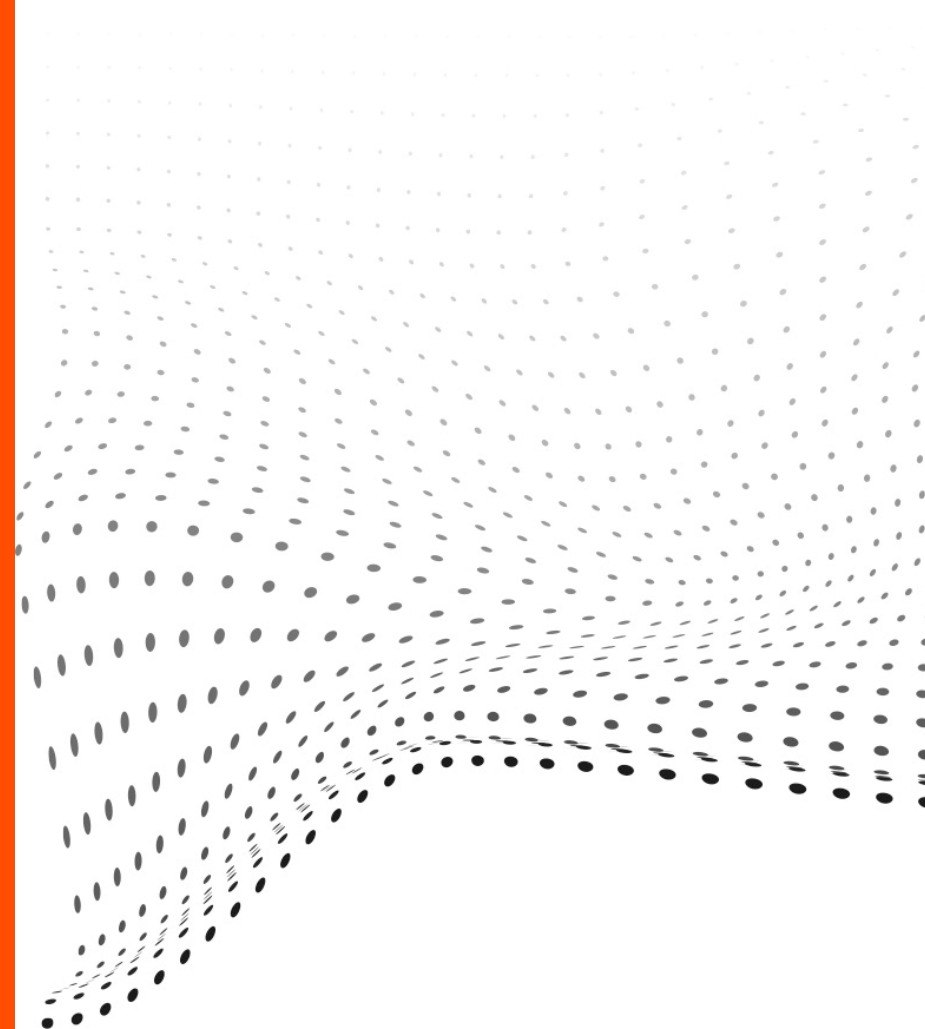
SOLUÇÕES
EM GERENCIAMENTO
DE DADOS

Zero to Hero in 16 Hours: HADR on SQL Server



Module 0: Introduction

What will we learn and goals



Meet your High Availability instructor



Marcelo Gonçalves Adade

Data P. Specialist at DBBITS
and Microsoft Data Platform Lead Consultant at Pythian

Sp_helpDBA

Marcelo is a Principal Database Consultant at The Pythian Group and an MS Data Platform instructor. He is currently a Microsoft MVP and holds the MCSE, MCT and MCSA Microsoft Certifications and also the Oracle OCP.

- <https://linktr.ee/marceloadade>
- PASS (ex) User Group
SQLMANIACS co-leader
<http://www.sqlmaniacs.com.br>
- Blogger at DBBITS
www.dbbits.com.br
- www.pythian.com



GOALS



By the end of this course, you should be able to:

Create a **Log shipping** environment;

Create a **Database Mirroring** Environment;

Create an AO **Failover Cluster Instance** with 2 nodes;

Create an AO **Availability Group** with 2 and 3 nodes.

Extra:

Create an AO **Failover Cluster Instance** with 3 or 4 nodes across different subnets;

Create a **Distributed Availability Group**.

Remember to enable the Virtual environment!

Contents

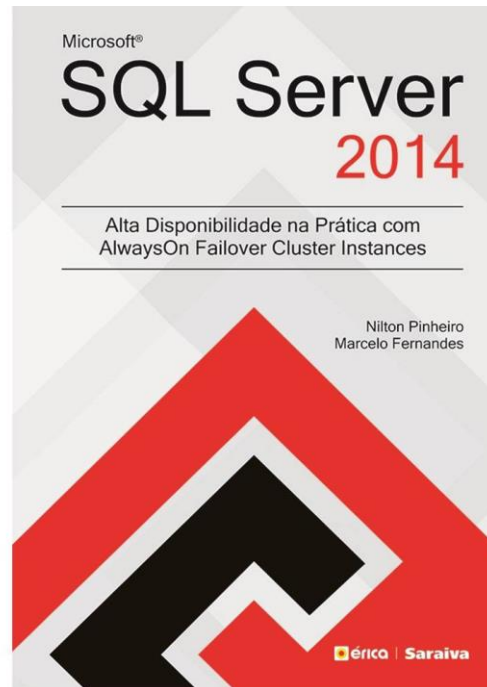


- **Intro to HADR**
- **Log, Backup and Restore**
- **Log Shipping**
- **Windows Cluster**
- **Always On Failover Cluster Instances**
- **Always On Availability Groups**

Resources and references



Book: Microsoft SQL SERVER 2014: Alta Disponibilidade na prática com Failover Cluster Instances – Nilton Pinheiro e Marcelo Fernandes;



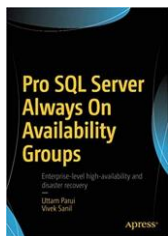
Resources and references



- Book: SQL SERVER Always On Revealed – Peter A. Carter



- Book: Pro SQL Server Always On Availability Groups – Uttam Parui



Prerequisites



- Basic SQL SERVER administration
- Basic SQL SERVER querying
- Basic infrastructure knowledge: Storage, Network, Operating System, Server architecture

Prerequisites - optional

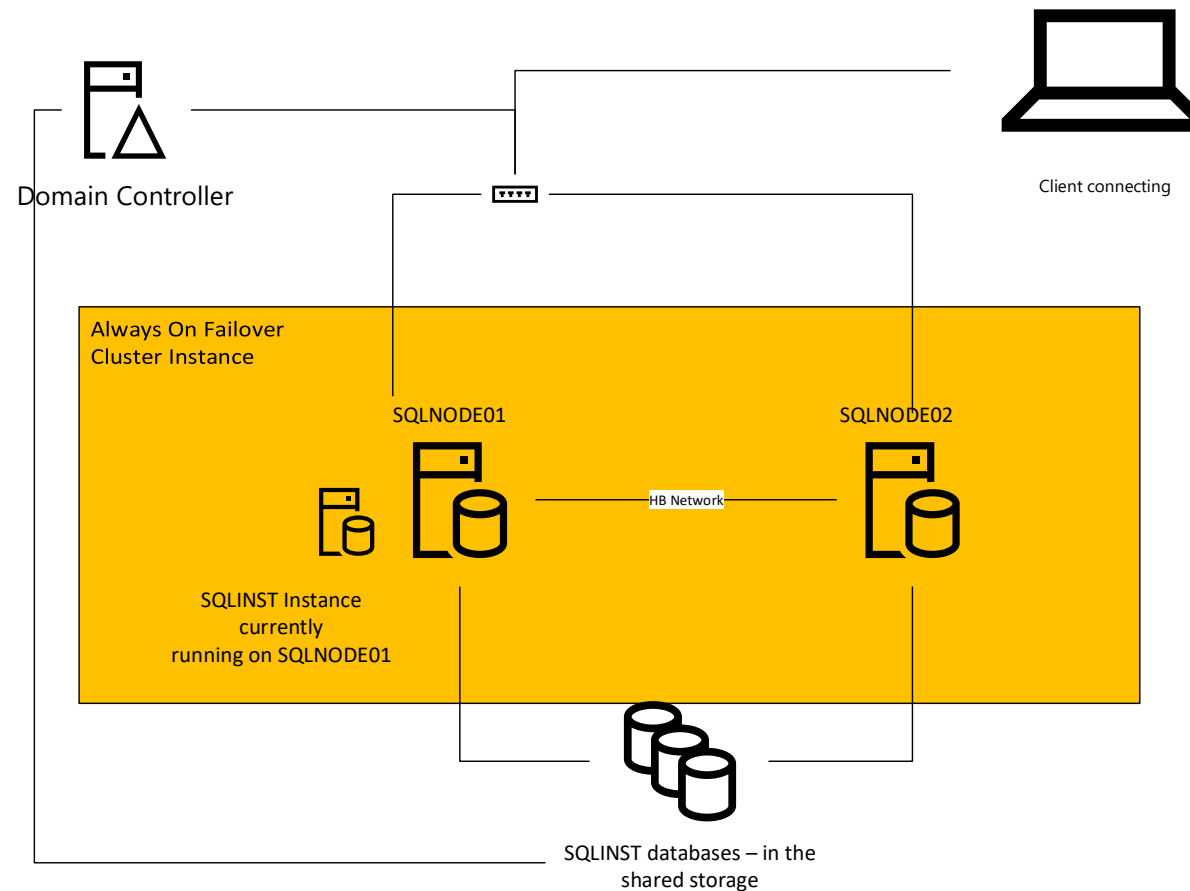


- Windows 10 (or Server) or equivalent with Hyper-V feature enabled;
- 16 GB of RAM;
- SSD disk with at least 200 GB of free space;
- Windows Server 2019 Evaluation edition: <https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-20169>
- SQL SERVER 2019 Evaluation edition: <https://www.microsoft.com/en-us/evalcenter/evaluate-sql-server-2019-rtm>
- AdventureWorks database
- AdventureWorks enlarging scripts

How our Virtual environment will look like



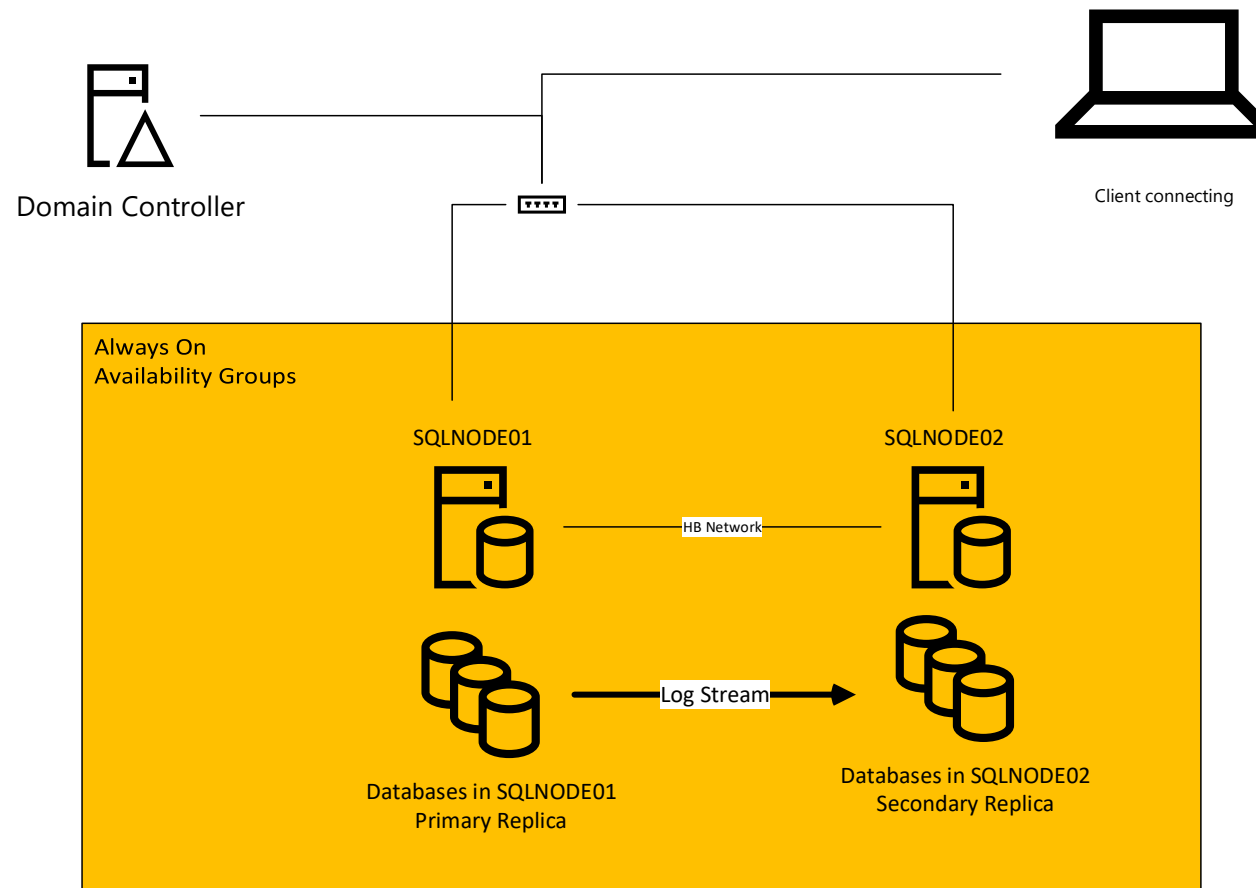
Failover Cluster instance



How our Virtual environment will look like



Always On Availability Group



Fim do módulo

