

SQL Server “AlwaysOn” setup on ObserveIT environment

Overview

ObserveIT can be easily installed on a SQL Server AlwaysOn environment.

The AlwaysOn is part of Microsoft SQL Server Enterprise Edition and should be deployed in a Windows Cluster environment.

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Document versions

Creator/Contributor/Editor	Date	Version
Zeev Cohen	July 28, 2016	1.0

This document uses screenshots and procedures written for Windows Server 2012 R2 and SQL Server 2014.

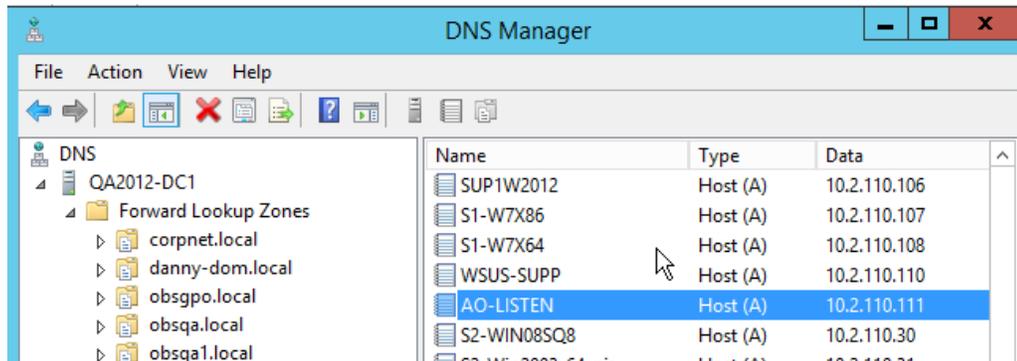
Prerequisites and assumptions for this document

- This document assumes a Custom Installation is performed and the prerequisites from the document “Perform Custom Installation” are met as well.
- Windows Cluster setup is required between 2 or more NODEs that will participate in the AlwaysOn environment, up to 8 NODEs are supported.
- Port 1433 For SQL Server connectivity needs to be opened on the firewall on all NODEs
- Port 5022 For SQL Server Always-On replication needs to be opened on the firewall on all NODEs

Create a DNS Entry for the AG-Listener

The AG-Listener (Availability Group) is the DNS Name that is used as the SQL Server Name during the installation of the Web-Console and Application Server(s).

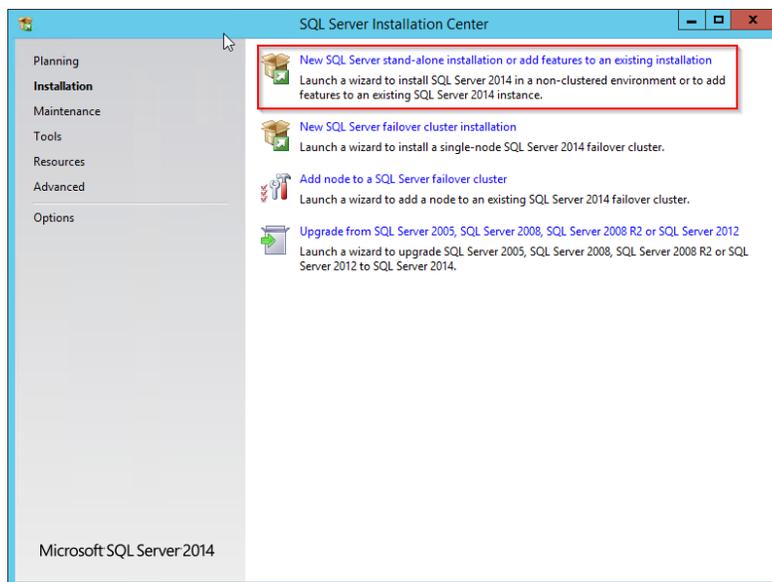
The DNS record we use is of type “A” – Address and has a IP Address assigned to it.



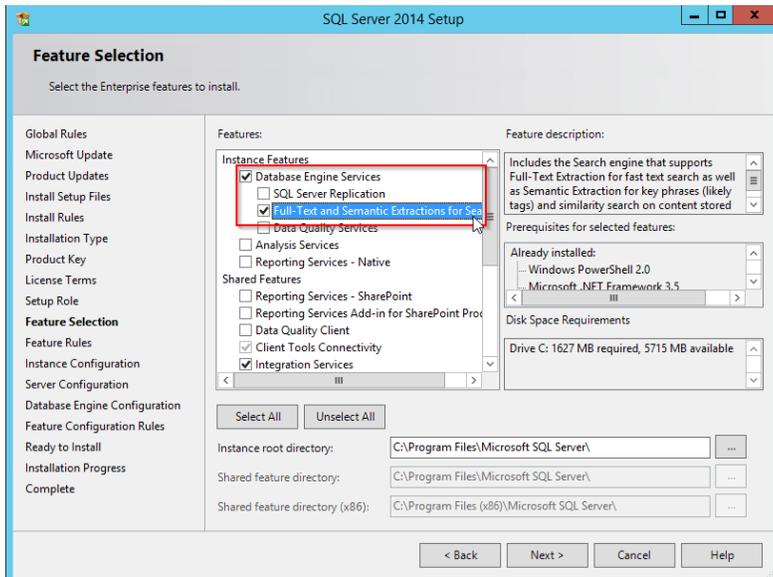
Install a SQL Server as a new install or as a new Named-Instance

Install a new SQL Server stand-alone Enterprise Edition or install a new Named-Instance, again using an Enterprise Edition of SQL Server; same Server Collation should be selected

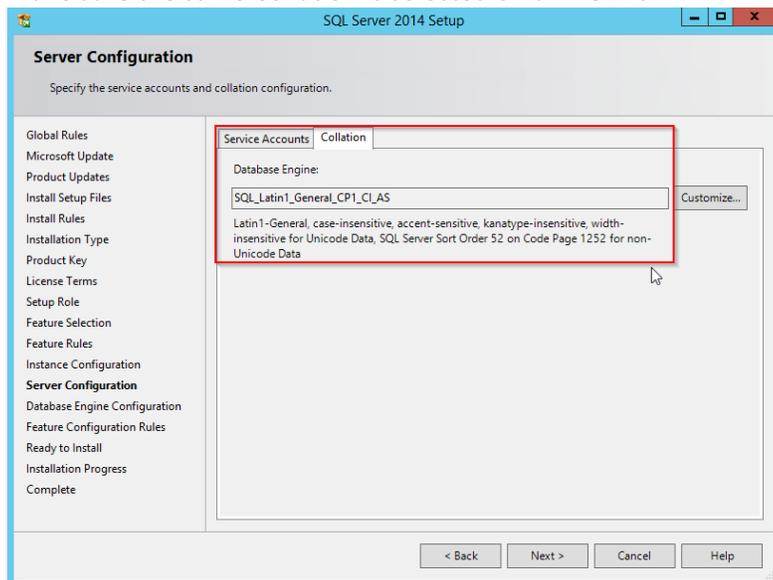
-NOTE: The following should be done on all the SQL Server NODEs on each of the Windows Cluster NODEs.



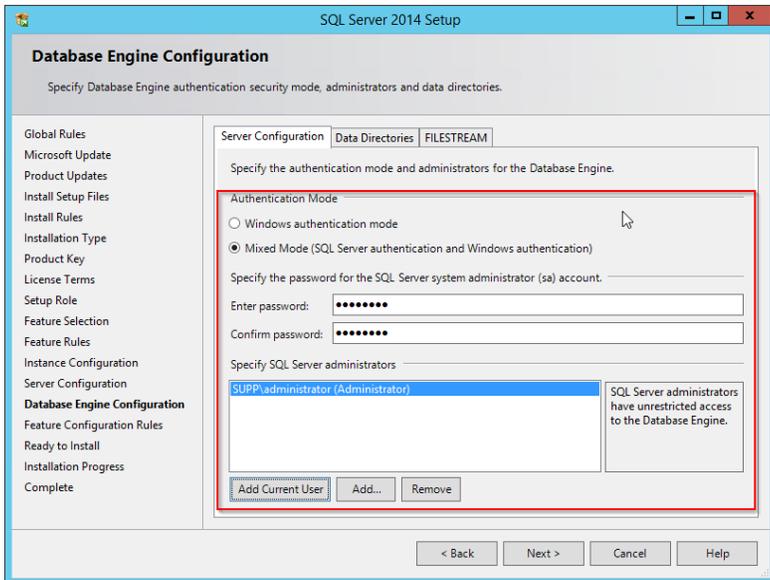
Select the Full-Text Search Feature



Make sure the same Collation is selected on all NODES



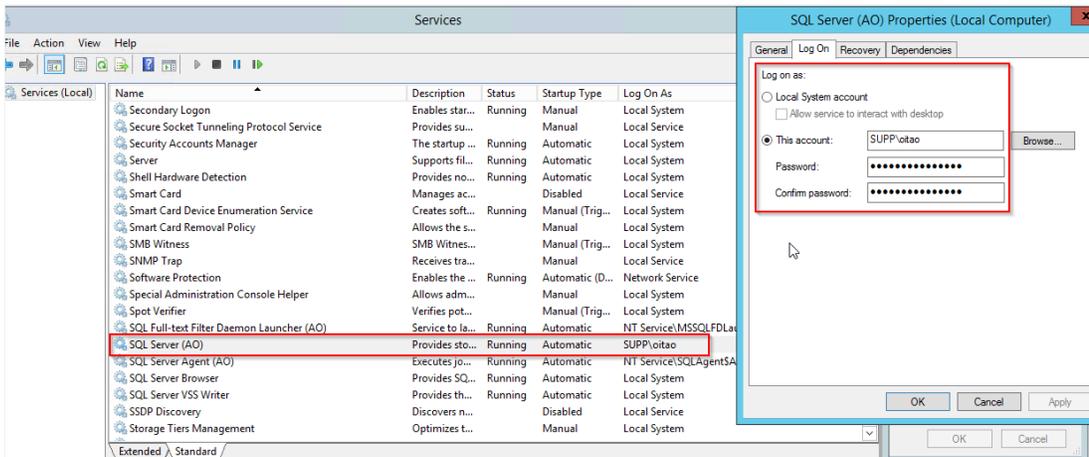
Choose Mixed-Mode for the Authentication Mode



Update the SQL Server Service to Log-On as the Service Account

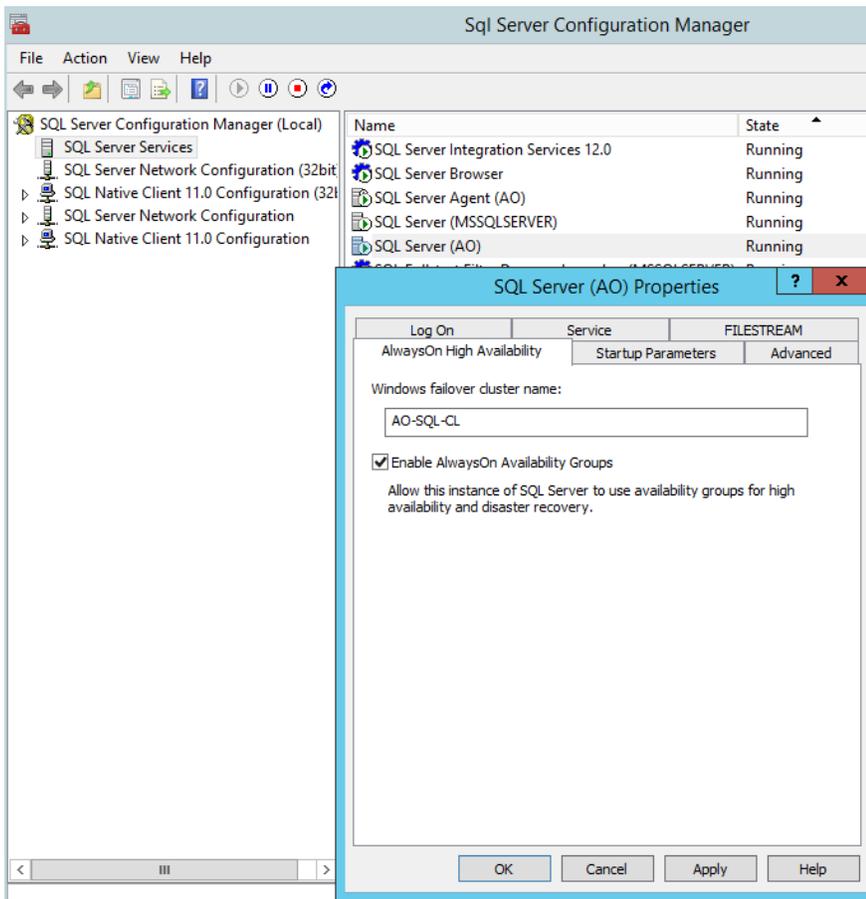
The following should be done on all the Windows Cluster NODEs for each of the SQL Server Service

All the nodes should be configured to run with the same service account.



Enable the Always-On feature from the SQL Server Configuration Manager

Open the SQL Server Configuration Manager, select the new SQL Server or new Named-Instance installation and check the 'Enable AlwaysOn Availability Groups', do this on all NODEs of the Windows Cluster.



Perform Custom Installation of ObserveIT Databases on NODE1

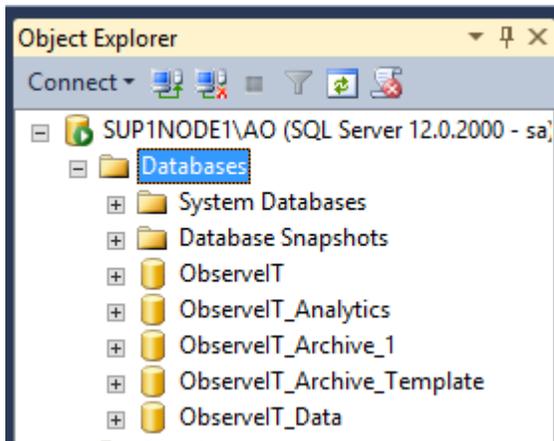
Please follow the instructions on the document "Perform Custom Installation" under the section "Installing the ObserveIT databases".

This should be done only on NODE1 of the Windows Cluster, the Active NODE.

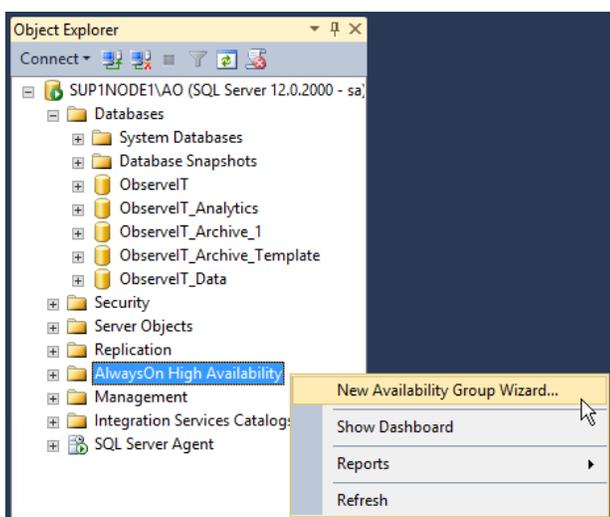
Later the databases will be replicated to the rest of the NODEs automatically.

Configure the AlwaysOn Availability Group

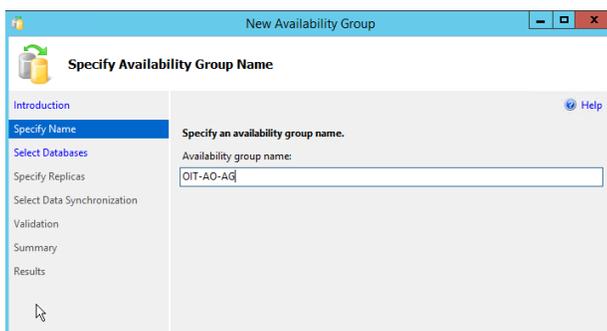
Take full backup of ObservelT's databases, this is a requirement before you can proceed



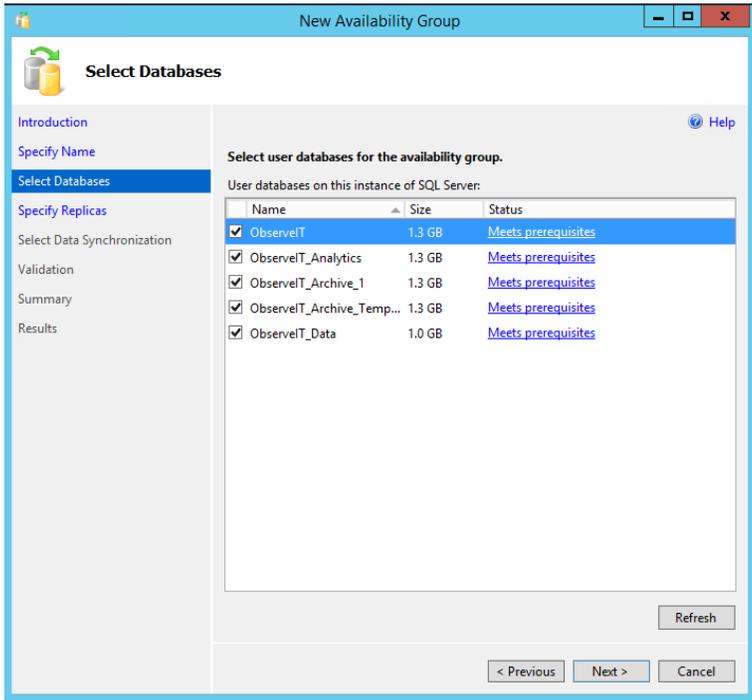
Right-Click and select 'New Availability Group Wizard...'



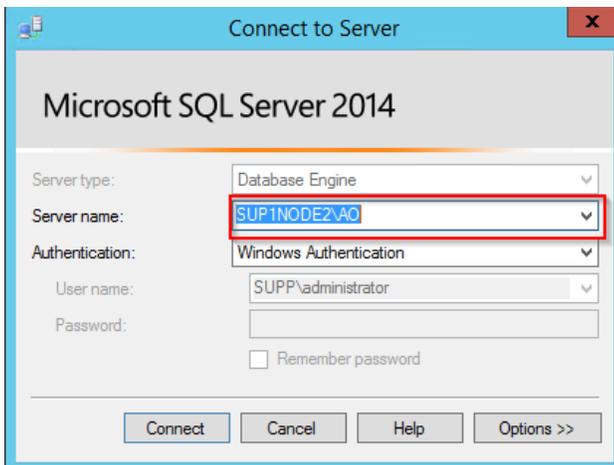
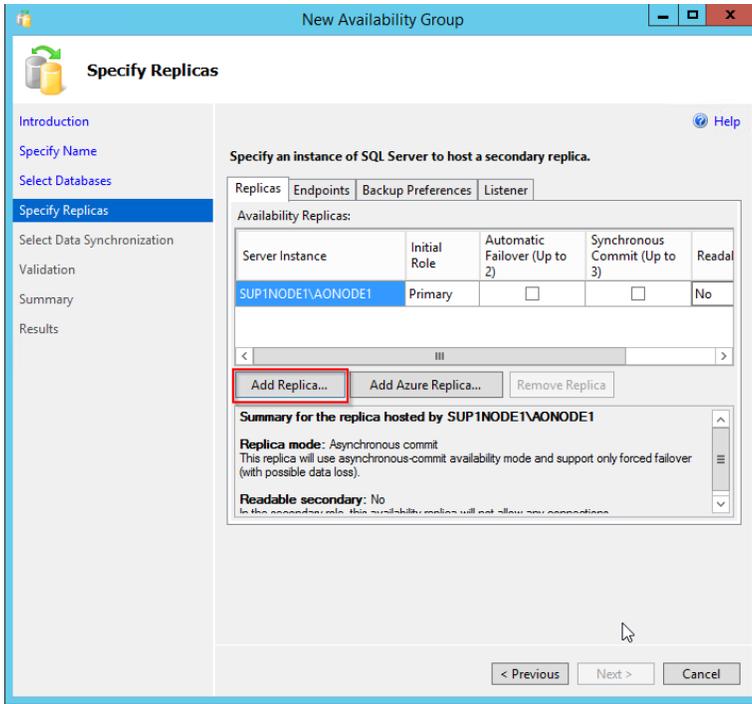
Name the Availability Group



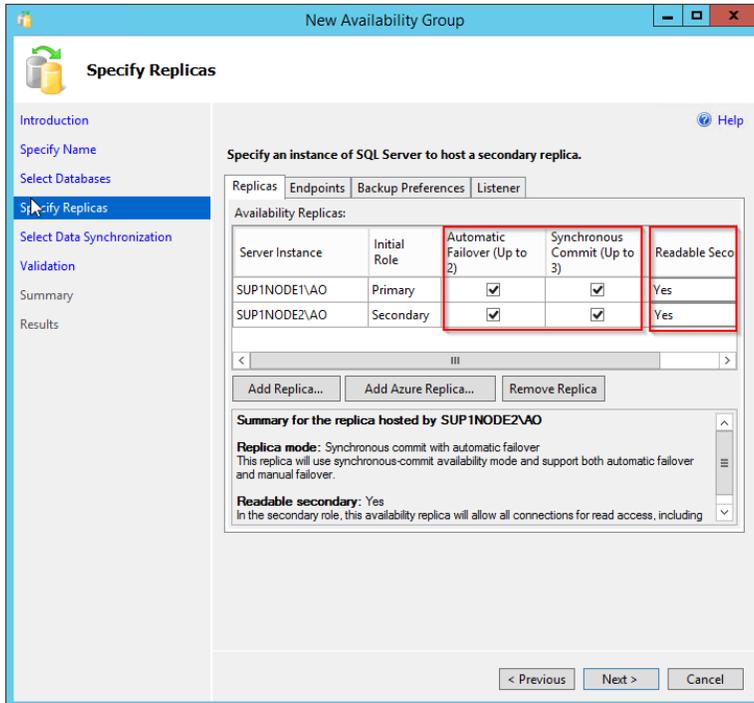
Select the ObservelT Databases



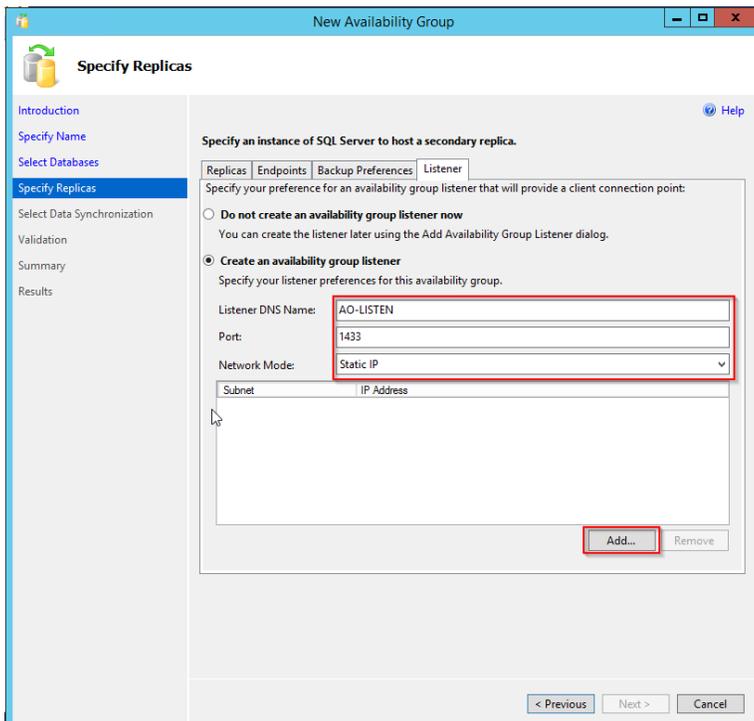
Click 'Add Replica', add the second or more NODEs, Click 'Connect'



Make sure the 'Automatic Failover' are checked and the 'Readable Secondary' are configured to 'Yes', and click 'Listener'



Add the Listener: Type the Name, port and click 'Add' to add the IP Address



Enter the IP Address and click 'OK'

Subnet: 10.2.0.0/16

Address:

IPv4 Address: 10.2.110.111

Subnet Mask: 255.255.0.0

IPv6 Address:

OK Cancel Help

Click 'Next'

Specify Replicas

Specify an instance of SQL Server to host a secondary replica.

Replicas | Endpoints | Backup Preferences | Listener

Specify your preference for an availability group listener that will provide a client connection point:

Do not create an availability group listener now
You can create the listener later using the Add Availability Group Listener dialog.

Create an availability group listener
Specify your listener preferences for this availability group.

Listener DNS Name: AO-LISTEN

Port: 1433

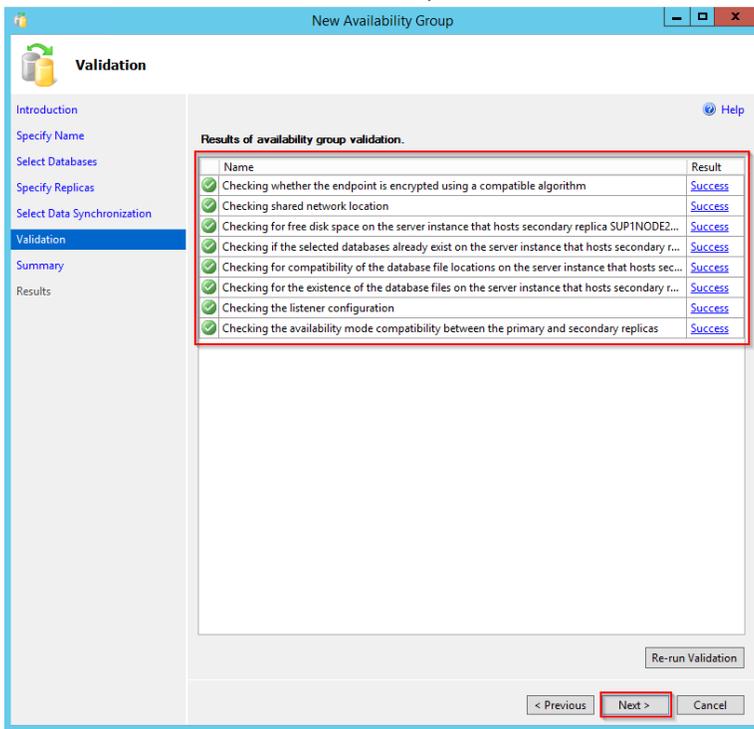
Network Mode: Static IP

Subnet	IP Address
10.2.0.0/16	10.2.110.111

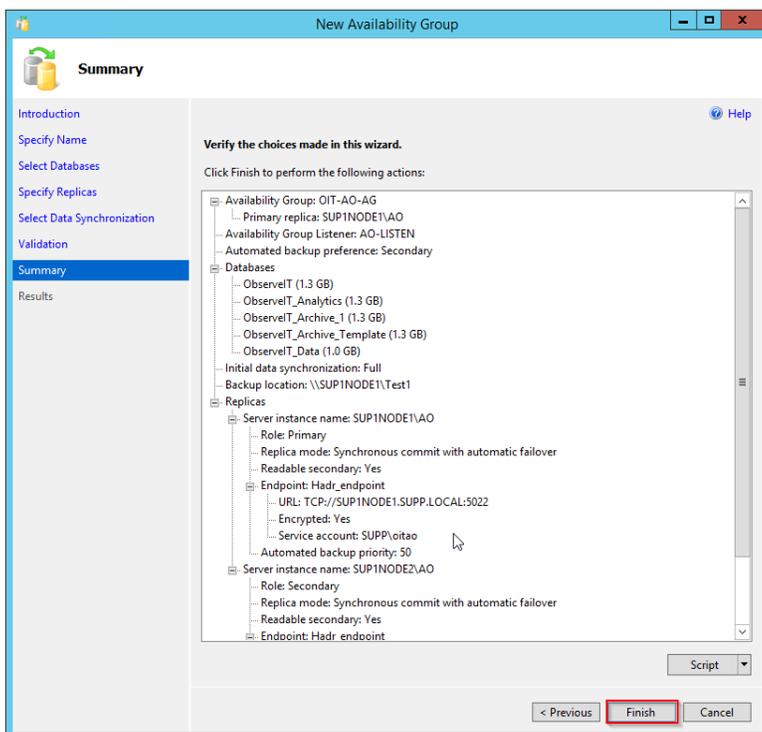
Add... Remove

< Previous Next > Cancel

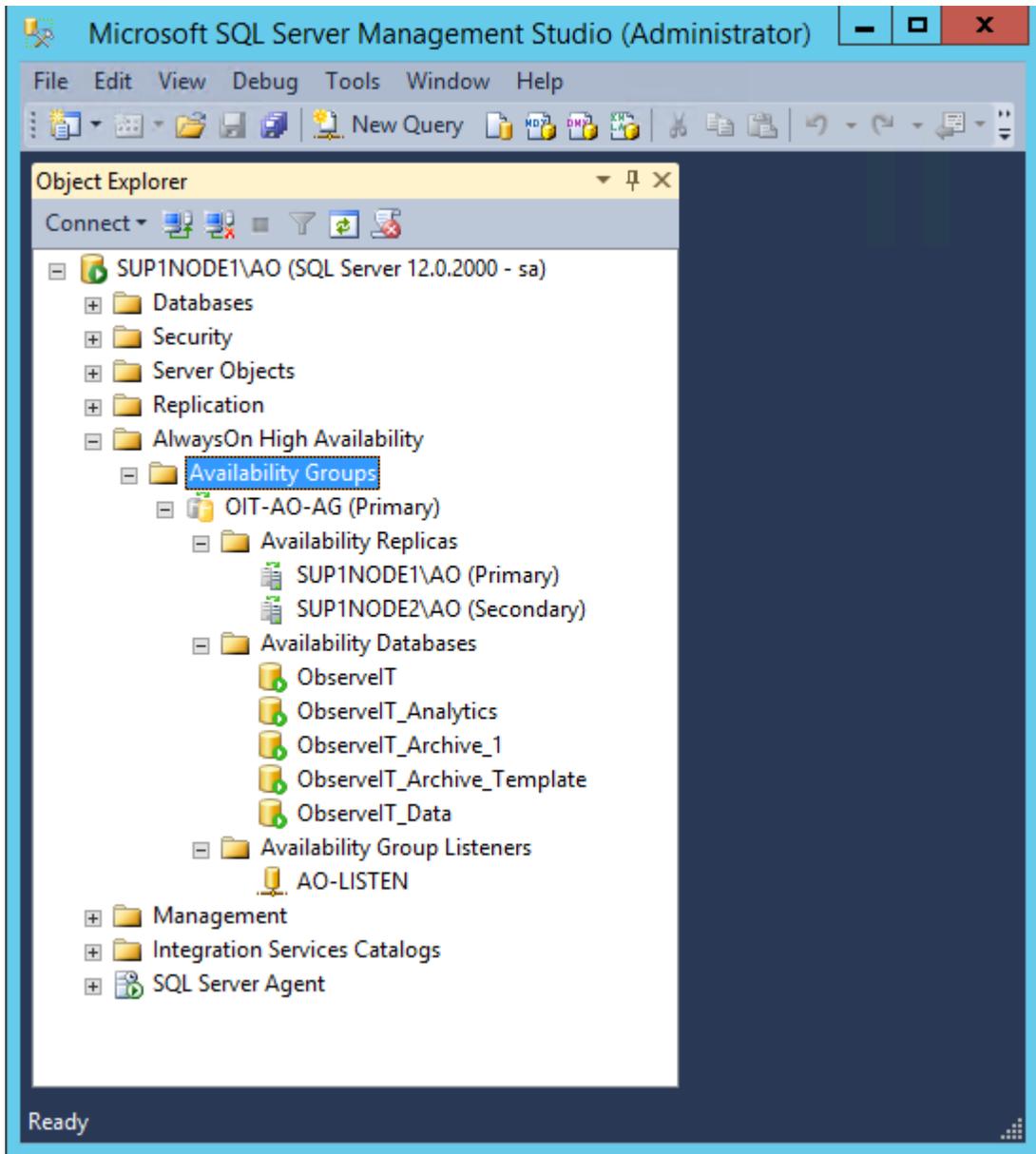
All validations should 'Success' and press 'Next'



Click 'Finish'



Summary, this is how it should look with all components



ObserveIT components installation

Continue the installation following the 'Perform Custom Installation' document.

You will need to use:

For the database the AG-Listener DNS Name.

For the Application Server(s) use the Load-Balancer NODE name.