

**NFS v4 on 7 Mode**

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# Introduction

## Management Summary

This document details the process used to configure NFS v4 in 7 Mode. At this time the use of NFS v4 is a standard only for use with MQ deployments in Thomson Reuters.

## Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Ver** | **Date** | **Author** | **Key Changes** |
| 0.1 | February 2016 | Ian Daniel | Initial Version |
| 0.2 | February 2016 | Ian Daniel | Added MQ to management summary |
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## Distribution List

|  |  |
| --- | --- |
| **Name** | **Role** |
| Storage Engineering | Reviewer |
| Storage Delivery | Reviewer |
| Storage Architecture | Reviewer |

## Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| 7 Mode | Data ONTAP |
| vfiler | A logical storage virtual server, which contains Interfaces, Volumes, and configuration information such as access control details. |

# NFS v4 Configuration

## Pre-requisites

* Confirm the target aggregate has sufficient capacity
* Confirm the target filer has an NFS license
* Make a note of required accounts on the client systems so they can be created on the vfiler.
* Make a note of required groups on the client systems so they can be created on the vfiler.
* Confirm there is network connectivity between the client and the filer.
* Make a note of the required NFS v4 Domain.

## ****Vfiler Setup****

### Enable NFS v4

ssh <controller> options nfs.v4.enable on

### Set NFS v4 Domain

ssh <controller> options nfs.v4.id.domain *int.westgroup.com*

## ****Account and Group Creation****

### Mount Vfiler /etc Directory

mount <vfiler\_ip>:/etc /mnt

### Add UID/GID

Create a passwd file if one doesn’t exist (won’t exist on a vfiler)

Add the following line to the /etc/passwd file for the UID that requests access.

**Example**

mqm::3987:5801:MQM User:/:

Create a group file if one doesn’t exist (won’t exist on a vfiler) and add the GID to the group file.

**Example**

mqm:\*:5801:

## ****Export Creation****

### ****Exports File****

You need to export the volume and qtree separately.

**Example**

/vol/ct\_jdg\_mq\_nosnap -sec=sys,rw=ctmq0004-12:ctmq0002-08,anon=0

/vol/ct\_jdg\_mq\_nosnap/j2012qa01 -sec=sys,rw=ctmq0004-12:ctmq0002-08,anon=0