**cFailoverCluster Module – Windows PowerShell Desired State Configuration Resource Kit**

# **Introduction**

The **cFailoverCluster** module adds additional resources to the existing module provided in the DSC Resource Kit. For this initial release, this adds support for configuring the cluster networks in a Windows cluster.

**Like with Microsoft’s own modules, all of the resources in the are provided AS IS, and are not supported through any Prosum standard support program or service.** The “c” in **cFailoverCluster** stands for community, which means that these resources are released to the community for general consumption and are not commercial sold or supported.

If you would like to modify **cFailoverCluster** module**,** feel free. When modifying, please update the module name, resource friendly name, and MOF class name (instructions below). As specified in the license, you may copy or modify this resource as long as they are used on the Windows Platform.

For more information about Windows PowerShell Desired State Configuration, check out the blog posts on the [PowerShell Blog](http://blogs.msdn.com/b/powershell/) ([this](http://blogs.msdn.com/b/powershell/archive/2013/11/01/configuration-in-a-devops-world-windows-powershell-desired-state-configuration.aspx) is a good starting point). There are also great community resources, such as [PowerShell.org](http://powershell.org/wp/tag/dsc/), or [PowerShell Magazine](http://www.powershellmagazine.com/tag/dsc/). For more information on the DSC Resource Kit, check out [this blog post](http://go.microsoft.com/fwlink/?LinkID=389546).

# Installation

To install **cFailoverCluster** module

* Unzip the content under $env:ProgramFiles\WindowsPowerShell\Modules folder

**To confirm installation:**

* **Run Get-DSCResource to see that cClusterNetworking is among the DSC Resources listed**

# **Requirements**

This module requires the latest version of PowerShell (v4.0, which ships in Windows 8.1 or Windows Server 2012R2). It also requires failover clustering features. To easily use PowerShell 4.0 on older operating systems, [install WMF 4.0](http://www.microsoft.com/en-us/download/details.aspx?id=40855). Please read the installation instructions that are present on both the download page and the release notes for WMF 4.0.

# **Description**

# The **cFailoverCluster** module contains the **cClusterNetworking** DSC Resource. This DSC Resource allows for simple configuration of cluster networks. Using this resource, you can define the Network Name and Metric of each network that exists in the cluster. As Cluster networks are managed by the cluster service, they cannot be created or destroyed by this module.

# Details

**xClusterNetworking** resource has following properties:

* **NetworkSubnet:** The Network IP of the network (“192.168.1.0”)
* **NetworkPrefix:** Number of bits of the network subnet (“24”)
* **AddressFamily:** IPv4 or IPv6; defaults to IPv4 if not present
* **NetworkName:** Desired name of the Network
* **NetworkMetric**: Desired Metric of the Network
* **NetworkRole:** 1, 2, or 3; Determined the Network type as Private, Public, or Mixed.

# **Renaming** Requirement

1. Update the following names by replacing PRSM with your company/community name (e.g. the resource name should change from PRSM\_cClusterNetworking to Contoso\_cClusterNetworking):

* **Module name**
* **Resource Name**
* **Resource Friendly Name**
* **MOF class name**
* **Filename for the <resource>.schema.mof**

1. Update module and metadata information in the module manifest
2. Update any configuration that use these resources

# Versions

1.0.0.0

* Initial Release with the following resources
  + cClusterNetworking