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The Local Configuration Manager (LCM) is the engine by which DSC facilitates the interaction between resources and configurations. The LCM regularly polls the system using the control flow implemented by resources to ensure that the state defined by a configuration is maintained. If the system is out of state, the LCM makes calls to the code in resources to "make it so" according to the configuration. See Also. DSC Configurations; DSC Resources

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A single configuration that defines an environment means that developers can encode their requirements into a configuration and check that configuration into source control. Operations teams can then deploy code without going through error-prone manual processes.

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With PowerShell Desired State Configuration, you can greatly simplify the deployment and configuration of servers and workstations with configure your OSs as code. DSC first appeared in PowerShell 4.0 (a version of the Windows Management Framework introduced in Windows Server 2012 R2).

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A PowerShell Desired State Configuration script is nothing more than a PS1 script that we're all used to having in our environment. However, it defines a special keyword called Configuration. That Configuration is where you're gonna go and define what the desired state for your environment is gonna be.

[Desired State Configuration \(DSC\) - Get Started - Nedim's ...](#)
Microsoft Windows PowerShell DSC (Desired State Configuration) Desired State Configuration (DSC) is a feature in PowerShell 4.0 and above that helps administrators to automate the configuration of Windows and Linux operating systems (OSes). DSC provides a set of PowerShell language extensions, cmdlets and a process called declarative scripting.

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Windows PowerShell Desired State Configuration (DSC) provides a configuration platform built into Windows that is based on open standards. DSC is flexible enough to function reliably and consistently in each stage of the deployment lifecycle (development, test, pre-production, production), as well as during scale-out, which is required in the cloud world.

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In short, LCM is the engine of Windows PowerShell Desired State Configuration (DSC), and it runs on every target node. Whenever we send the DSC configuration document to a node, it's LCM's job to parse it and call appropriate resources which will put the machine in the desired state.

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To set up DSC in the portal: Go to a VM. Under Settings, select Extensions. In the new page that's created, select + Add, and then select PowerShell Desired State Configuration. Click Create at the bottom of the extension information page.

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PowerShell is a task automation and configuration management framework from Microsoft, consisting of a command-line shell and the associated scripting language. Initially a Windows component only, known as Windows PowerShell, it was made open-source and cross-platform on 18 August 2016 with the introduction of PowerShell Core. The former is built on the .NET Framework, the latter on .NET Core.

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