

Cheatsheet Desired State Configuration

1. PS C:\Scripts> InstallScript
2. Start-DscConfiguration -Wait -Verbose -Path .\InstallScript

Basic template

```
Configuration InstallScript
{
    # A Configuration block can have zero or more Node blocks
    Node "Server001"
    {
        # Next, specify one or more resource blocks
    }
}
```

Resource Blocks

Source

Provider	Description
DSC Archive Resource	Unpacks archive (.zip) files at specific paths on target nodes.
DSC Environment Resource	Manages system environment variables on target nodes.
DSC File Resource	Manages files and directories on target nodes.
DSC Group Resource	Manages local groups on target nodes.
DSC Log Resource	Logs configuration messages.
DSC Package Resource	Installs and manages packages, such as Windows Installer and setup.exe packages, on target nodes.
DSC WindowsProcess Resource	Configures Windows processes on target nodes.
DSC Registry Resource	Manages registry keys and values on target nodes.
DSC WindowsFeature Resource	Adds or removes Windows features and roles on target nodes.
DSC Script Resource	Runs Windows PowerShell script blocks on target nodes.
DSC Service Resource	Manages services on target nodes.
DSC User Resource	Manages local user accounts on target nodes.

Manage Windows feature

```
WindowsFeature MyRoleExample
{
    Ensure = "Present" # To uninstall the role, set Ensure to "Absent"
    Name = "Web-Server"
}
```

Services

```
Service virtualDiskService
{
    Name = 'vds'
    State = 'Running'
    StartupType = 'Automatic'
    BuiltInAccount = '' # LocalService / LocalSystem / NetworkService
}
```

Copy file

- File is a built-in resource you can use to manage files and directories

- This example ensures files from the source directory are present in the destination directory

File MyFileExample

```
{
  Ensure = "Present" # You can also set Ensure to "Absent"
  Type = "Directory" # Default is "File"
  Recurse = $true
  SourcePath = "\\dc1\websitefiles" # This is a path that has web files
  DestinationPath = "C:\inetpub\wwwroot" # The path where we want to ensure the web files are present
  Force = $true # overwrite
}
```

Log

- Log is located Windows Logs \ Application and Services Log \ Microsoft \ Windows \ Desired State Configuration \ Analytic

- needs to be enabled

```
Log loggingInfo
{
  Message = "Windows Environment variable set successfully."
}
```

Environment

Environment serveRackInfo

```
{
  Ensure = 'Present'
  Name = "ServerRack"
  Value = "Rack2 U9"
}
```

Manage Builtin groups

- Group is a built-in resource that you can use to manage local Windows groups
- This example ensures the existence of a group with the name specified by \$MyGroupName

Group testGroup

```
{
  Ensure = 'Present'
  GroupName = 'AmanTestGroup'
  Members = 'root'
  Description = "This group is created by PowerShell DCS script"
}
```