

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