

# Windows 2012 R2 Core Survival Guide

Useful PowerShell commands in Windows 2012 R2 Server Core.

## Basic operations

Task	Command
Shutdown	Stop-Computer
Reboot	Restart-Computer
Task Manager	<Ctrl-Shift-Escape> or Start-Process Taskmgr
Get environment variable	Get-Content env:VARIABLE
e.g. hostname	Get-Content env:Computername
Set host name	Rename-Computer -NewName NEWNAME -restart

## Localization

Task	Command
Get the date	Get-Date
Set date/time	Set-Date "MM/DD/YYYY hh:mm:ss PM"
Get timezone	tzutil /g
Set timezone (Brussels)	tzutil /s "Romance Standard Time"
Set keyboard layout	Set-WinUserLanguageList nl-BE -force

## Network interfaces

Task	Command
List adapters	Get-NetAdapter
Get connection profiles	Get-NetAdapter   Get-NetConnectionProfile
Get IP addresses	Get-NetIPAddress
Get routing table	Get-NetRoute
DNS servers	Get-DnsClientServerAddress
"netstat"	Get-NetTCPConnection
Troubleshooting	<a href="#">Test-NetConnection</a>

## Services

Task	Command
List all services	Get-Service   Format-Table -autosize
View single SERVICE	Get-Service   Where name -eq SERVICE   Format-list
Start SERVICE	Start-Service -name SERVICE

Task	Command
Stop SERVICE	Stop-Service -name SERVICE
All service startup types	Get-WmiObject win32_service   Format-Table -autosize
SERVICE startup type	Get-WMIObject Win32_Service   where Name -eq SERVICE
Enable SERVICE at boot	Set-Service -name SERVICE -StartupType Automatic
Disable SERVICE at boot	Set-Service -name SERVICE -StartupType Disabled

## Firewall

Task	Command
Get FW state	netsh advfirewall show currentprofile
Disable firewall	netsh advfirewall set currentprofile state off
Enable firewall	netsh advfirewall set currentprofile state on
Set default policy	netsh advfirewall set currentprofile firewallpolicy blockinboundalways,allowoutbound
Get FW rules	Get-netfirewallrule   format-table name,displaygroup,action,direction,enabled -autosize
Allow inbound ping	netsh advfirewall firewall add rule name="Allow ICMP" dir=in protocol=ICMPv4 action=allow
Allow WinRM HTTPS	netsh advfirewall firewall add rule name="Allow WinRM HTTPS" dir=in localport=5986 protocol=TCP action=allow

TODO: netsh is the "old" way of manipulating firewall settings and may be removed in later Windows versions. There are CmdLets for the same tasks.

## Miscellaneous

Task	Command
Finding files	Get-ChildItem -Path c:\ -Filter PATTERN -Recurse
Get Registry value	Get-ItemProperty -Path "HKLM:\PATH\TO\PROP"
Set Registry value	Set-ItemProperty -Path "PATH" -Name NAME -Value VALUE
SHA-256 checksum	Get-FileHash FILE
MD5 checksum	Get-FileHash -Algorithm MD5 FILE Also works for SHA1, SHA256

## Resources

- Bruce Adamczak, 2014. **Windows 2012 Core Survival Guide**, TechNet Blogs, Retrieved on 2014-08-30 from [http://blogs.technet.com/b/bruce\\_adamczak/](http://blogs.technet.com/b/bruce_adamczak/)
- Microsoft, 2014. **Scripting with Windows PowerShell**, TechNet Library, Retrieved on 2014-08-31 from <http://technet.microsoft.com/en-us/library/bb978526.aspx>