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Get-WindowsOptionalFeature

Get-WindowsOptionalFeature -Online

Installing Pre-Reqs for WSL

```
Installing, this may take a few minutes...  
WslRegisterDistribution failed with error: 0x80004005  
Error: 0x80004005 Unspecified error
```

Fix: wsl --update

Virtual Machine Platform

Enable-windowsoptionalfeature -online -featurename VirtualMachinePlatform

Windows Hypervisor Platform

Enable-WindowsOptionalFeature -online -featurename HypervisorPlatform

Microsoft Hyper-V

Enable-WindowsOptionalFeature -online -featurename Microsoft-Hyper-V-All

Windows Subsystem for Linux

enable-windowsoptionalfeature -online -featurename Microsoft-Windows-Subsystem-Linux

Install Linux Distro

Wsl --install -d kali-linux

Install Windows Sandbox

Enable-WindowsOptionalFeature -FeatureName "Containers-DisposableClientVM" -Online
-NoRestart

Installing PowerShell

```
winget install "Microsoft.PowerShell"
```

Installing WSL from MSStore

```
winget install "Windows Subsystem for Linux" -s msstore
```

Installing Python from MSStore

```
winget install "Python 3.12" -s msstore
```

Install Visual Studio Code

```
Winget install "Microsoft.VisualStudioCode"
```

VSCode Default Extensions

Prettier

```
code --install-extension esbenp.prettier-vscode
```

VSCode-Icons

```
code --install-extension vscode-icons-team.vscode-icons
```

LUA

```
code --install-extension sumneko.lua
```

IntelliCode

```
code --install-extension VisualStudioExptTeam.vscodeintellicode
```

C#

```
code --install-extension ms-dotnettools.csharp
```

PowerShell

```
code --install-extension "ms-vscode.powershell"
```

Python

```
code --install-extension "ms-python.python"
```

YAML

```
code --install-extension "redhat.vscode-yaml"
```

WSL

```
code --install-extension "ms-vscode-remote.remote-wsl"
```

Jupyter

```
code --install-extension "Ms-toolsai.jupyter"
```

Teams Toolkit

```
code --install-extension "TeamsDevApp.ms-teams-vscode-extension"
```

Power Platform Tools

```
code --install-extension "microsoft-lsvExpTools.powerplatform-vscode"
```

Install in One Line

```
code --install-extension esbenp.prettier-vscode --install-extension  
vscode-icons-team.vscode-icons --install-extension sumneko.lua --install-extension  
VisualStudioExptTeam.vscodeintellicode --install-extension ms-dotnettools.csharp  
--install-extension ms-toolsai.jupyter --install-extension ms-vscode.powershell --install-extension  
ms-python.python --install-extension ms-vscode-remote.remote-wsl --install-extension  
redhat.vscode-yaml --install google.gemini-code-assist
```

Install RSAT using PowerShell

Get Available RSAT tools

```
Get-WindowsCapability -Name "RSAT*" -Online | FT Name,DisplayName,State -Quto -Wrap
```

Install

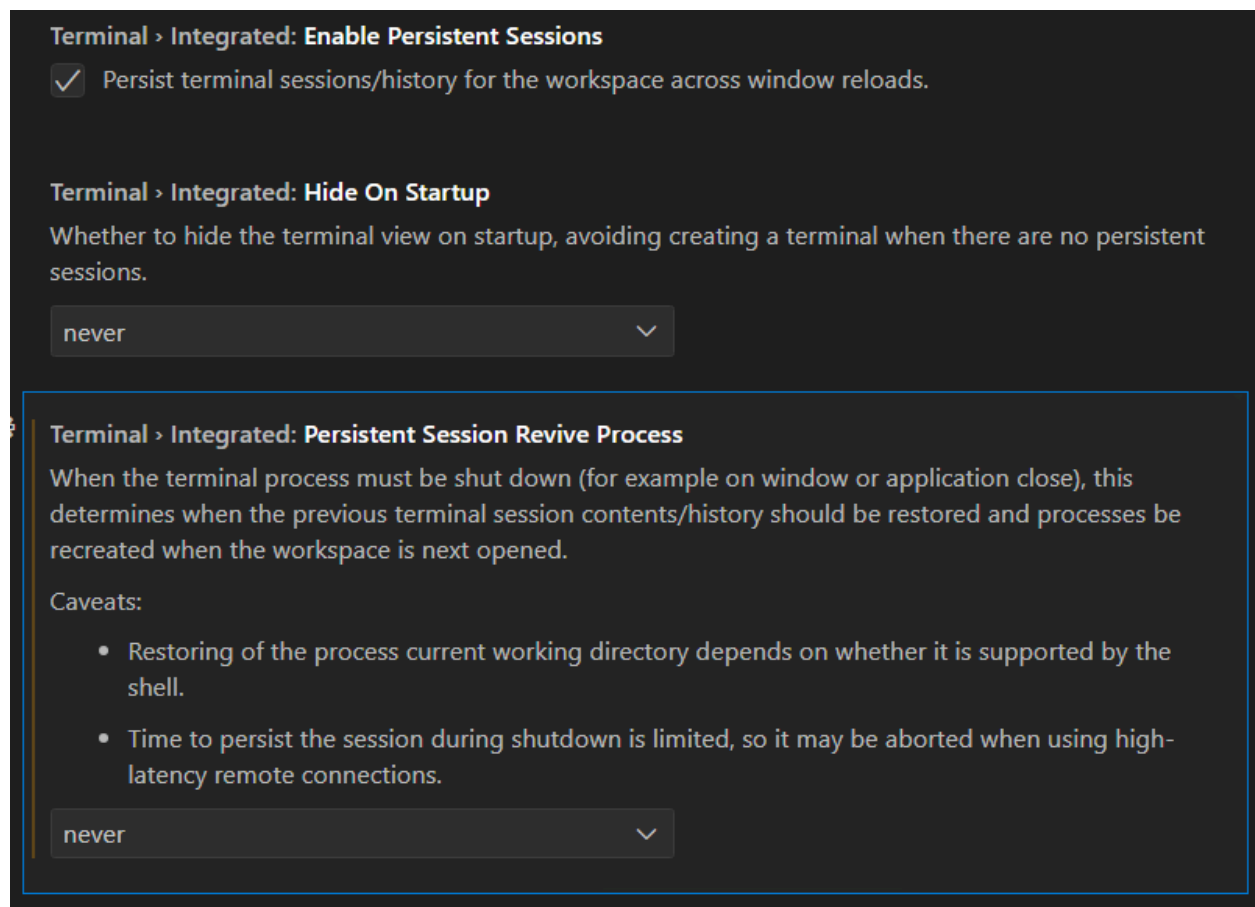
```
$rsat_tools = @(
    "Rsat.ActiveDirectory.DS-LDS.Tools~~~~0.0.1.0",
    "Rsat.DHCP.Tools~~~~0.0.1.0",
    "Rsat.Dns.Tools~~~~0.0.1.0",
    "Rsat.GroupPolicy.Management.Tools~~~~0.0.1.0",
    "Rsat.ServerManager.Tools~~~~0.0.1.0"
)

foreach ($rsat_tool in $rsat_tools) {
    Add-WindowsCapability -Online -Name $rsat_tool
}
```

VSCode: Turn off Persistent Session

Terminal > Integrated: Persistent Session Review Process -- never

Terminal > Integrated: Enable Persistent Sessions -- off



Ubuntu

VSCode install

```
sudo apt install code
```

PowerShell Install

```
#####
```

```
# Prerequisites
```

```
# Update the list of packages
```

```
sudo apt-get update
```

```
# Install pre-requisite packages.
```

```
sudo apt-get install -y wget apt-transport-https software-properties-common
```

```
# Get the version of Ubuntu
```

```
source /etc/os-release
```

```
# Download the Microsoft repository keys
```

```
wget -q
```

```
https://packages.microsoft.com/config/ubuntu/$VERSION_ID/packages-microsoft-prod.deb
```

```
# Register the Microsoft repository keys
```

```
sudo dpkg -i packages-microsoft-prod.deb
```

```
# Delete the the Microsoft repository keys file
```

```
rm packages-microsoft-prod.deb
```

```
# Update the list of packages after we added packages.microsoft.com
```

```
sudo apt-get update
```

```
#####
```

```
# Install PowerShell
```

```
sudo apt-get install -y powershell
```

```
# Start PowerShell
```

```
pwsh
```