

README for Domain Connectivity Check Scripts

Overview

check_domains_win.ps1 and check_domains_lin.sh are PowerShell and Bash scripts, respectively, designed to verify network connectivity to specific domains over HTTPS (Port 443). These scripts are useful for confirming whether certain domains are accessible from your network, which can help troubleshoot connectivity issues.

Scripts

1. check_domains_win.ps1

Description This PowerShell script checks the connectivity to a predefined list of domains by attempting to establish a TCP connection on Port 443. The result of each connection attempt (Success or Failed) is displayed in the console.

Prerequisites Windows OS with PowerShell 5.0 or later Network connectivity and permissions to access the specified domains Administrator privileges may be required for full functionality

Usage

1. Open PowerShell with necessary permissions.
2. Run the script:

```
.\check_domains_win.ps1
```

3. The script outputs a "Success" message for each reachable domain and a "Failed" message for unreachable domains, along with an error description.

Code Breakdown

- \$urls: Defines the list of domains to check.
- Test-NetConnection: PowerShell cmdlet used to test connectivity to each domain.
- Write-Output: Prints the result of each connection attempt to the console.

2. check_domains_lin.sh

Description This Bash script checks the connectivity to a predefined list of domains over Port 443 using the nc (netcat) command. It outputs the status of each connection attempt to the console, indicating success or failure.

Prerequisites

- Linux OS or a compatible Unix-like environment with Bash support
- nc (netcat) command installed
- Network connectivity and permissions to access the specified domains

Usage

1. Open a terminal with necessary permissions.
2. Make the script executable (if not already):

```
chmod +x check_domains_lin.sh
```

3. Run the script:

```
./check_domains_lin.sh
```

4. The script outputs "Success" for each reachable domain and "Failed" for unreachable domains.

Code Breakdown

- `hosts`: Defines the list of domains to check.
- `nc -z -w 5`: `nc` command to test connectivity on Port 443 with a 5-second timeout.
- `if [$? -eq 0]`: Evaluates the exit code from `nc` to determine success or failure.

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Customization To modify the list of domains to be checked:

- PowerShell script: Edit the `$urls` array.
- Bash script: Edit the `hosts` array.

To test a different port, update the `port` variable in each script.

Notes

- Ensure that necessary network permissions are in place for accurate results.
- Adjustments may be necessary for environments with firewall restrictions or proxy settings.
- For troubleshooting issues with specific domains, additional network diagnostic tools may be required.