CONFIGURATION GUIDES › INSTALL, START & UPDATE

# SingleAgent Remote deployment in Windows using Powershell

Applicare 10.0 · Updated December 31, 2024 · singleagent, windows · **Pending technical review**

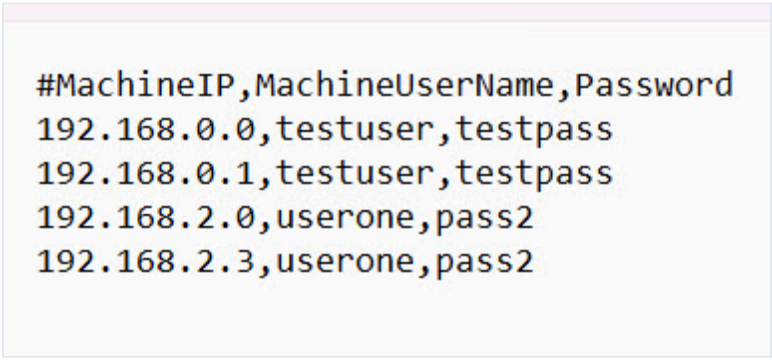
Applicare provides the capability to deploy agents remotely, ensuring a smooth and efficient setup process.

**Step 1: Download the machine_details.txt file** in the Host machine and **add the Machine IPs, Login Usernames and passwords.**

- Download the **machine_details.txt** from **here** and add the list of target machines with their IP addresses, login usernames and passwords.

**Example:**

```text
#MachineIP,MachineUserName,Password
192.168.0.0,testuser,testpass
192.168.0.1,testuser,testpass
192.168.2.0,userone,pass2
192.168.2.3,userone,pass2
```




**Step 2: Download the windows_agent_instalation_script.ps1 file** in the Host machine and **add Controller Protocol, IP, and Port.**

- Downlaod the **windows_agent_instalation_script.ps1** from **here** and configure the controller protocol, ip and port details in the script using the following variables.

**Template:**

```powershell
$env:PROTOCOL = 'Controller-protocol'
$env:IP = 'Controller-ip'
$env:PORT = 'Controller-port'
$ProgressPreference = 'SilentlyContinue'

# Download and execute the script
Invoke-WebRequest -Uri Controller-protocol://Controller-ip:Controller-
port/applicare/standalone?filename=windowsagentinstall.ps1 -OutFile
$pwd\windowsagentinstall.ps1
.\windowsagentinstall.ps1
```

**Example:**

```powershell
$env:PROTOCOL = 'http'
$env:IP = '192.168.0.154'
$env:PORT = '8880'
$ProgressPreference = 'SilentlyContinue'

# Download and execute the script
Invoke-WebRequest -Uri http://192.168.0.154:8880/applicare/standalone?
filename=windowsagentinstall.ps1 -OutFile $pwd\windowsagentinstall.ps1
.\windowsagentinstall.ps1
```




**Step 3: Enable the following PowerShell settings on both the host and remote machines to ensure proper communication and functionality**

**On the Host Machine:**

1. **Set Network Profile to Private**

   **Powershell**

   ```powershell
   Get-NetConnectionProfile | Set-NetConnectionProfile -NetworkCategory Private
   ```

***Explanation:*** Setting the network category to private allows trusted communication with other devices on the network and enables protocols like WinRM for remote management.

2. **Enable WinRM**

   **Powershell**

   ```
   TEXT
   winrm quickconfig -Force
   ```

   ***Explanation:*** WinRM (Windows Remote Management) is required for PowerShell remoting. This command ensures WinRM is enabled and ready to communicate with remote machines.

3. **Enable the ExecutionPolicy**

   **Powershell**

   ```
   POWERSHELL
   Set-ExecutionPolicy Unrestricted -Scope CurrentUser
   ```

   ***Explanation:*** PowerShell to execute scripts without any restrictions, but only for the current user.

**On the Remote Machine:**

1. **Set Network Profile to Private**

   **Powershell**

   ```
   POWERSHELL
   Get-NetConnectionProfile | Set-NetConnectionProfile -NetworkCategory Private
   ```

   ***Explanation:*** A private network category allows trusted communication with other devices in the network and enables protocols like WinRM for remote management.

2. **Enable PowerShell Remoting**

   **Powershell**

   ```
   TEXT
   Enable-PSRemoting -Force
   ```

   ***Explanation:*** This command configures the remote machine to accept PowerShell commands from the host.

3. **Allow Traffic on Port 5985** Ensure the firewall allows traffic on the **WinRM default port (5985) TCP.**

   ***Explanation:*** This opens the required port to enable communication via WinRM over HTTP.

4. **Machine IP, Login Username and Password** Ensure that the login user has **Administrator** privileges on the machine.

   ***Explanation:*** Administrator access is required to enable remote communication protocols, and execute scripts with elevated permissions.

**Step 4:** Open **PowerShell** in **Administrator mode** in the **Host machine** and navigate to the directory where the script is located and execute the following command

```powershell
.\windows_agent_instalation_script.ps1
```

**Note:** Ensure that both the **machine_details.txt** and **windows_agent_instalation_script.ps1** are located in the same directory before running the script.