**Capstone Project: Creating and Deploying MSIX (Notepad++)**

**Objective:**

To convert a setup.exe (Notepad++) into an MSIX package with a signed certificate and deploy it using PSADT and SCCM/ICBM.

**Step 1: Capturing and Repackaging the Setup.exe**

* **Goal:** Capture the installation process of Notepad++ to create an MSI package.
* **Process:**
  1. Installed **Notepad++** .exe on VM.
  2. Repackaged the installation using **repack.exe**, following the same steps as for 7-Zip:
     + Captured **before & after snapshots**.
     + Created and edited **IRP file** to remove unnecessary files.
  3. Created **ISM project file** from the IRP.
  4. Built **MSI file** from ISM using Advanced Installer.

**Step 2: Converting MSI to MSIX**

* **Goal:** Create a modern MSIX package for deployment.
* **Process:**
  1. Opened **Advanced Installer** and converted the MSI into an **MSIX package**.
  2. Signed the MSIX using a **certificate** built within Advanced Installer.
  3. Exported the certificate for deployment.

**Step 3: Managing the Certificate**

* **Goal:** Ensure MSIX package can be trusted and installed on client PCs.
* **Process:**
  1. Opened **Certificate Management** on Windows.
  2. Navigated to **Trusted Root Certification Authorities → Certificates**.
  3. Located the **Notepad++ certificate**.
  4. Exported the certificate as a .cer file.
  5. Imported the certificate manually on the client VM to allow MSIX installation.

**Step 4: Deployment Using PSADT**

* **Goal:** Automate installation of MSIX and its certificate.
* **Process:**
  1. Added both **MSIX package** and **certificate** to PSADT deployment folder.
  2. Wrote **install scripts** in PSADT:
     + Installed the certificate first.
     + Installed the MSIX package.
  3. Verified installation worked successfully using PowerShell.

**Step 5: Deployment Using SCCM/ICBM**

* **Goal:** Deploy MSIX and certificate across multiple client machines.
* **Process:**
  1. Created **SCCM/ICBM package** for the certificate.
  2. Created **programs** for deployment, distributed content, and deployed the certificate.
  3. Deployed the **Notepad++ MSIX** package using the same process.
  4. Ensured deployment completed successfully on all target PCs.

**Step 6: Outcome**

* Notepad++ .exe captured, repackaged, and converted to **MSIX**.
* Certificate exported and trusted on client machines.
* PSADT scripts automated installation of both certificate and MSIX.
* Successfully deployed package via SCCM/