

## PKI setup fails during Parallels Mac Management installation (CA is installed on Windows Server 2008)

- Parallels Device Management

### Symptoms

Unable to complete Parallels Mac Management installation with a following error:

### Cause

Invalid provider type specified for certificate template.

### Resolution

To enable connection of Macs to HTTPS-enabled SCCM infrastructure those Macs should obtain certificates from Certificate Authority (CA) trusted by SCCM. PKI certificates secure the communication between the Mac computers and the Configuration Manager site by using mutual authentication and encrypted data transfers.

## 1. Creating a Certificate Template for Parallels Configuration Manager Proxy

1. Open **Certification Authority console** by click Start Administrative Tools Certification Authority.
2. Right click on **Certificate Templates** in Certification Authority (Local) and click **Manage**.
3. Right click on **Web Server certificate template** in templates list in Certificate Templates Console and click **Duplicate Template** in opened context menu.
4. Choose **Windows Server 2003 Enterprise** and click **OK** in opened Duplicate Template dialog.
5. Type name in Template display name field in **General tab** of Properties of New Template dialog.
6. Ensure that Minimum key size is **2048** and check **Allow private key to be exported** in **Request Handling** tab of Properties of New Template dialog.
7. Ensure that **Supply in the request** is chosen and check **Use subject information from existing certificates for autoenrollment renewal requests** in **Subject Name** tab of Properties of New Template dialog.
8. Add **Client Authentication** to **Description of Application Policies** in **Extensions** tab of Properties of New Template dialog.
9. Add computer, where CM Proxy is installed, and user, under which CM Proxy is being ran to **Group or user names** and grant them **Enroll** and **Autoenroll** permissions in **Security** tab of Properties of New Template dialog. **Note:** if user, under which CM Proxy is being ran, is **LocalSystem** - only computer name must be added.
10. Click **OK** in Properties of New Template dialog
11. Right click on **Certificate Templates** in **Certification Authority (Local)** and click **New Certificate Template to Issue** in opened context menu
12. Select just created template for **CM Proxy** (PMM CM Proxy certificate) and click **OK** in Enable Certificate Templates dialog

# Creating a Certificate Template for Mac Computers

1. Open **Certification Authority** console by click Start Administrative Tools Certification Authority.
  2. Right click on **Certificate Templates** in **Certification Authority (Local)** and click **Manage**.
  3. Right click on **Workstation Authentication** certificate template in templates list in **Certificate Templates Console** and click **Duplicate Template** in opened context menu.
  4. Choose **Windows Server 2003 Enterprise** and click **OK** in opened Duplicate Template dialog.
  5. Type name in **Template display name** field in **General** tab of Properties of New Template dialog.
  6. Ensure that **Minimum key size** is **2048** and check **Allow private key to be exported** in **Request Handling** tab of Properties of New Template dialog.
  7. Click on **CSPs...** button and select **Requests must use one of the following CSPs: Microsoft DH SChannel Cryptographic Provider** and **Microsoft RSA SChannel Cryptographic Provider**:
  
  8. Choose **Supply in the request** in **Subject Name** tab of Properties of New Template dialog and click **OK** in appeared Certificate Templates message.
  9. Check **Use subject information from existing certificates for autoenrollment renewal requests** in **Subject Name** tab of Properties of New Template dialog.
  10. Ensure that there is **Client Authentication** in **Description of Application Policies** in **Extensions** tab of Properties of New Template dialog.
  11. Add user, under which CM Proxy service is being ran and computer, where CM Proxy is installed (if user is **Local System** – add only computer), to **Group or user names** and grant them **Enroll** and **Autoenroll** permissions in **Security** tab of Properties of New Template dialog.
  12. Click **OK** in Properties of New Template dialog.
  13. Right click on **Certificate Templates** in **Certification Authority (Local)** and click **New Certificate Template to Issue** in opened context menu.
  14. Select just created template for CM Proxy (PMM Client certificate) and click **OK** in **Enable Certificate Templates** dialog.
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