

[Previous](#)[Contents](#)

## Appendix A

**Additional Security Information For Microsoft Windows****How to Secure a Password File on Microsoft Windows Systems**

For remote monitoring and management, password and access files are used to control security. How to set the file permissions for a password file is described for Solaris and Linux platforms in [Using Password and Access Files](#) in [Chapter 2, Monitoring and Management Using JMX Technology](#).

This appendix describes how to set the file permissions of the password file on a Windows system using a New Technology File System (NTFS) so that only the owner has read and write permissions on this file. If the file system is a File Allocation Table (FAT) 32 system, then security is not supported for this file system and the password file cannot be secured.

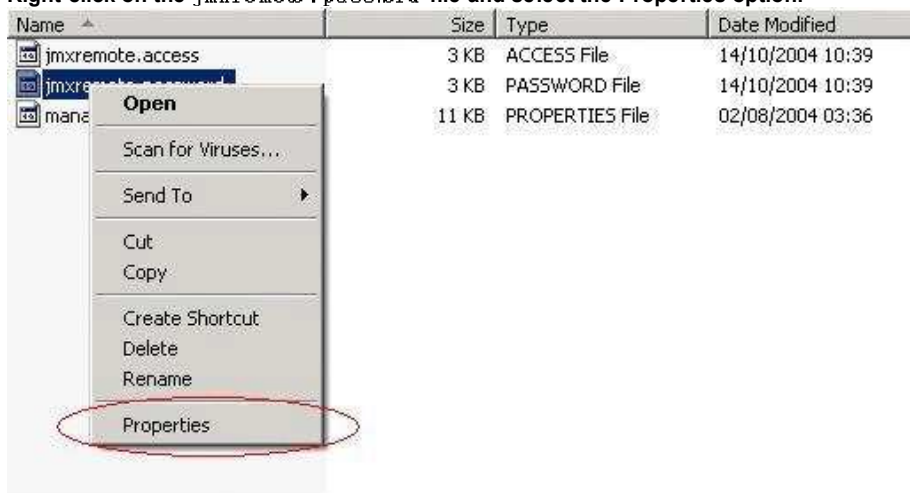
Securing a password file is done differently in the different versions of Windows XP. Solutions for both Windows XP Professional Edition and Windows XP Home Edition are provided in this appendix.

**▼ To Secure a Password File on Windows XP Professional Edition**

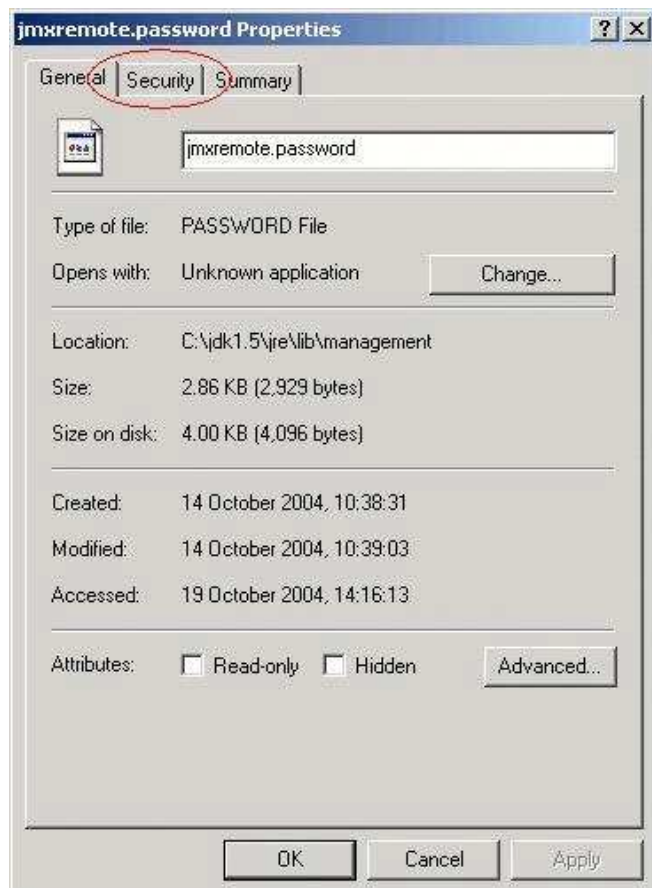
The procedure given below will not work if you are running Windows XP Home Edition, which does not allow you to change file permissions graphically. A solution is given in [To Secure a Password File on Windows XP Home Edition](#) below.

**Note** - The solution using the `cacls` command described in [To Secure a Password File on Windows XP Home Edition](#) can also be used on Windows XP Professional Edition, as a command-line alternative to using the graphical interfaces.

1. In Windows Explorer, navigate to the directory containing the `jmxremote.password` file.
2. Right-click on the `jmxremote.password` file and select the Properties option.

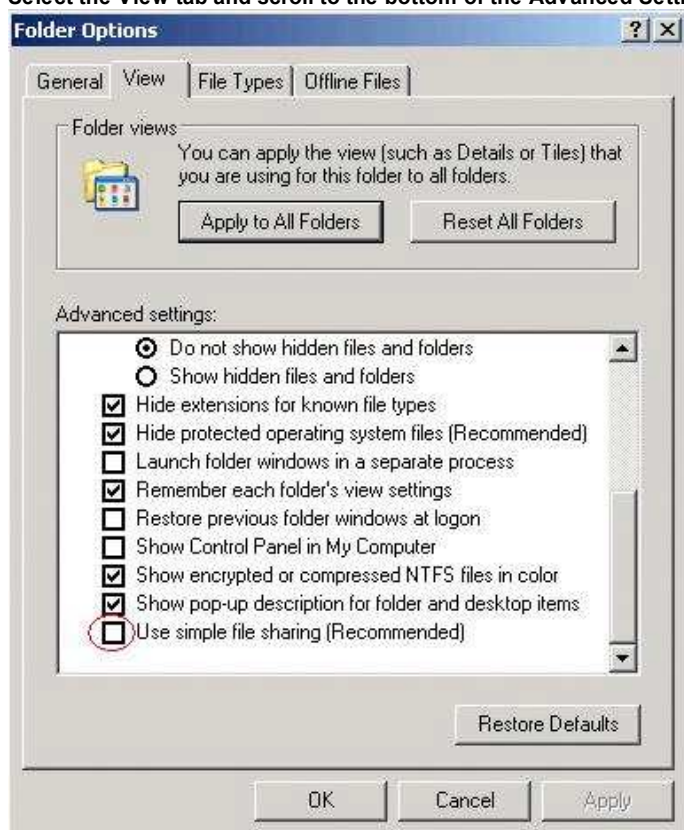


3. Select the Security tab



If you are using Windows XP Professional Edition and the computer is not part of a domain, then the Security tab will not be automatically visible. To reveal the Security tab, you must perform the following steps.

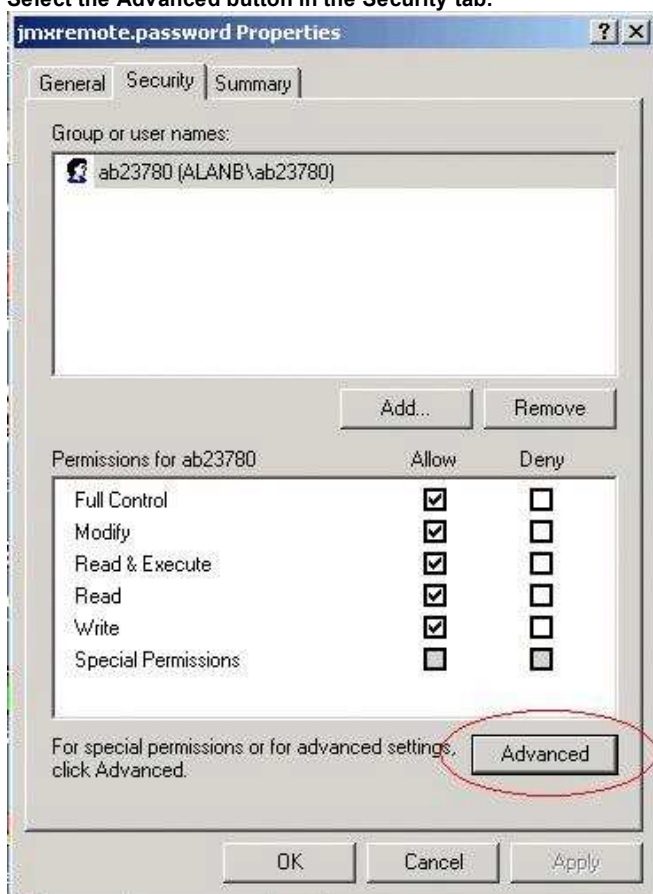
- Open Windows Explorer, and choose Folder Options from the Tools menu.**
- Select the View tab and scroll to the bottom of the Advanced Settings and clear the Use Simple File Sharing check box.**



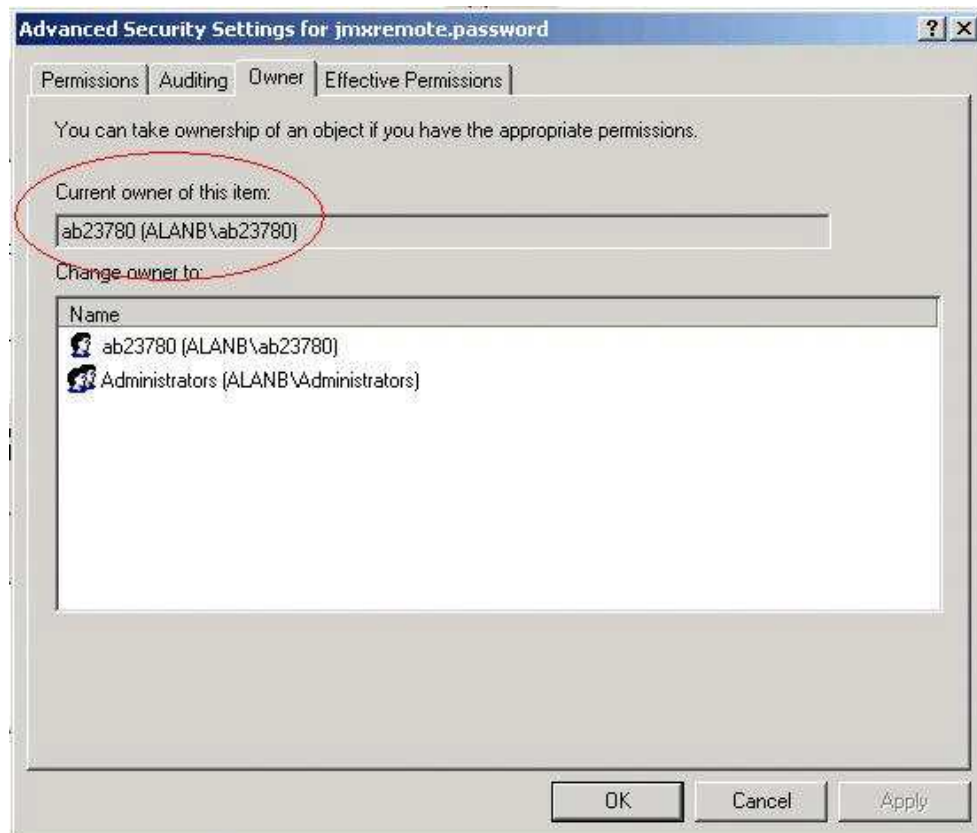
- c. Click OK to apply the change.
- d. Restart Windows Explorer.

The Security tab will now be visible

4. Select the Advanced button in the Security tab.

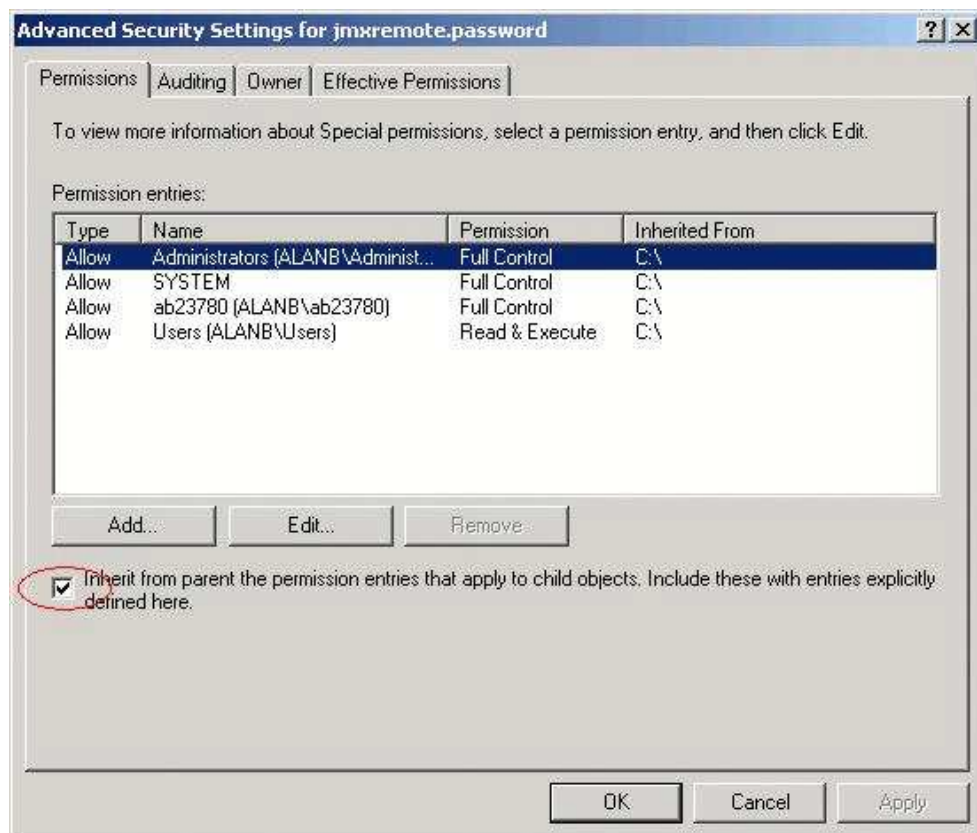


5. Select the Owner tab to check if the file owner matches the user under which the Java VM is running.

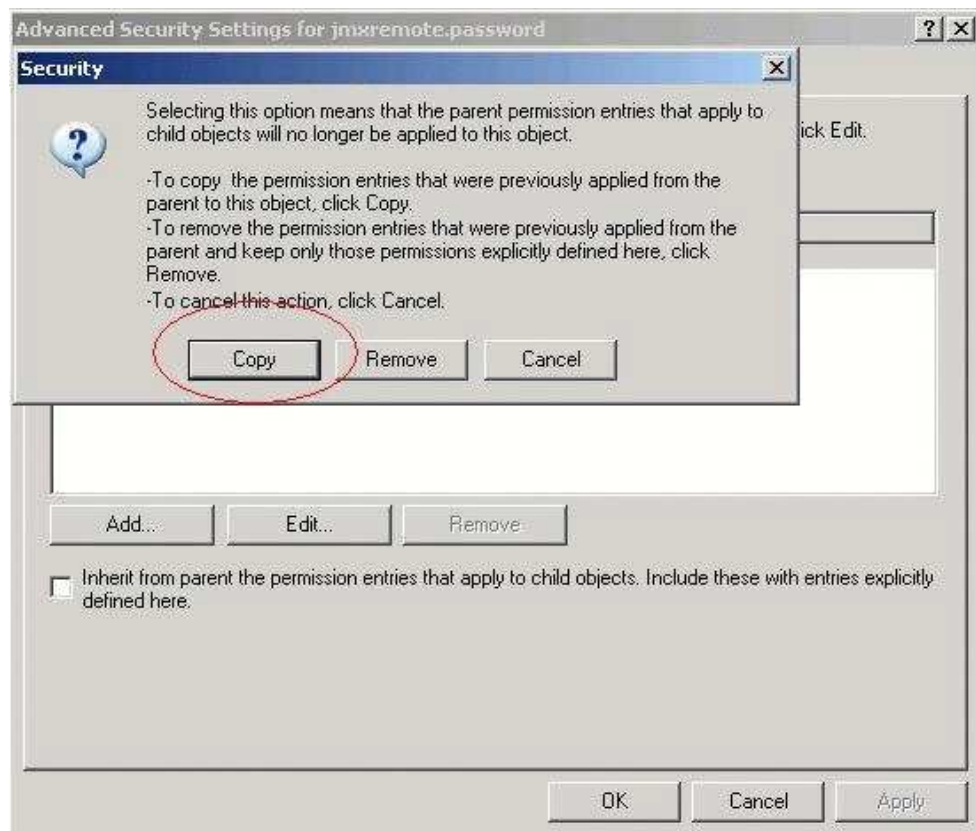


6. **Select the Permissions tab to set the permissions.**

If there are permission entries inherited from a parent directory that allow users or groups other than the owner access to the file, then clear the "Inherit from parent the permission entries that apply to child objects" checkbox.

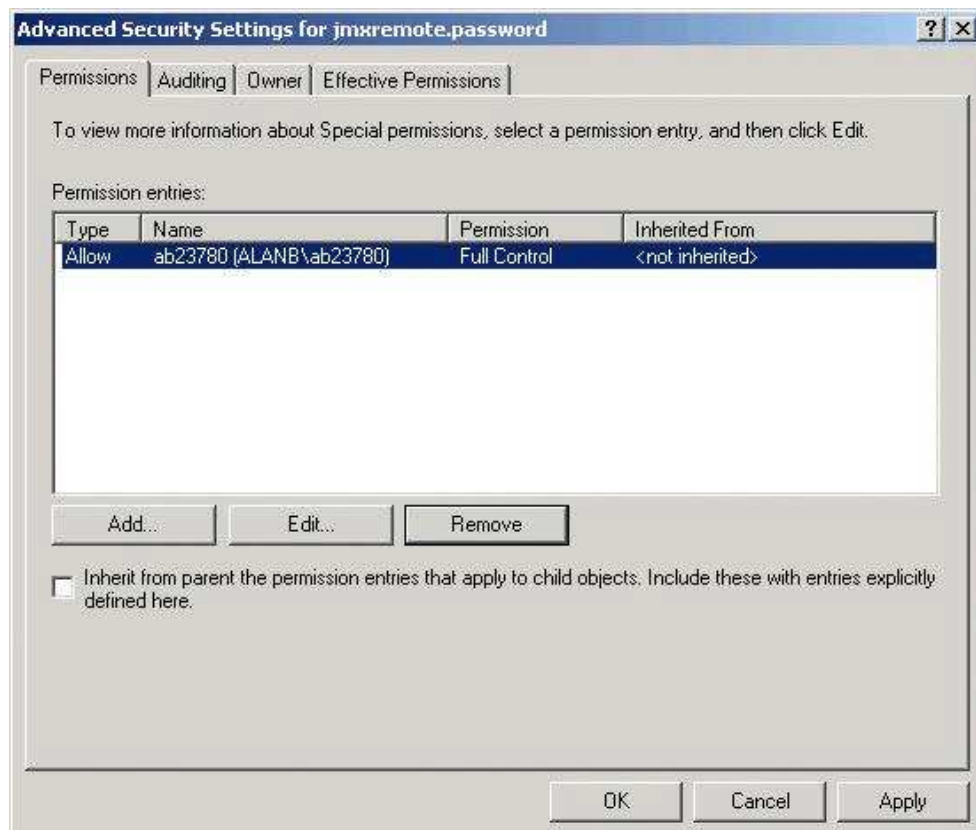


7. **A dialog box will ask if the inherited permissions should be copied from the parent or removed. Press the Copy button.**



8. **Remove all permission entries that grant access to users or groups other than the file owner.**

Do this by clicking the user or group and pressing the Remove button for all users and groups except the file owner.



Now there should be a single permission entry which grants Full Control to the owner.

9. **Press OK to apply the file security change.**

The password file is now secure and can only be accessed by the owner.

10. **Press OK in the `jmxremote.password` Properties dialog.**

▼ **To Secure a Password File on Windows XP Home Edition**

As stated above, Windows XP Home Edition does not allow you to set file permissions graphically. However, you can set permissions using the `cacls` command.

1. **Open a command prompt window.**
2. **Run the following command**

```
C:\MyPasswordFile>cacls jmxremote.password
```

This command displays the access control list (ACL) of the `jmxremote.password` file.

3. **Set the access rights so that only your username has read access.**

When no users have been configured on the machine the default username is usually `Owner`, or a localized translation of `Owner`.

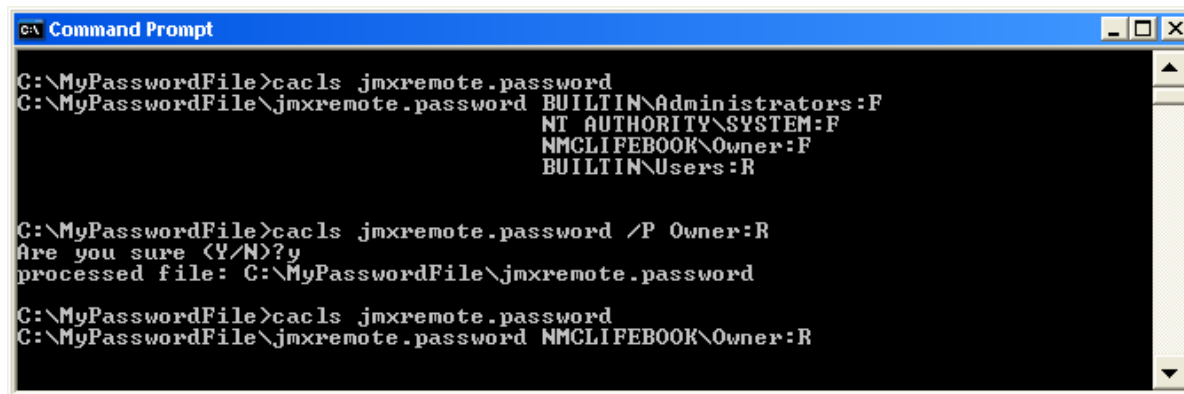
```
C:\MyPasswordFile>cacls jmxremote.password /P Owner:R
```

This command grants access to the user `Owner` with read-only permission, where `Owner` is the owner of the `jmxremote.password` file.

4. **Display the ACL again.**

```
C:\MyPasswordFile>cacls jmxremote.password
```

This time, you will see that only the Owner has access to the password file.



```
Command Prompt
C:\MyPasswordFile>cacls jmxremote.password
C:\MyPasswordFile\jmxremote.password BUILTIN\Administrators:F
                                     NT AUTHORITY\SYSTEM:F
                                     NMCLIFEBOOK\Owner:F
                                     BUILTIN\Users:R

C:\MyPasswordFile>cacls jmxremote.password /P Owner:R
Are you sure (Y/N)?y
processed file: C:\MyPasswordFile\jmxremote.password

C:\MyPasswordFile>cacls jmxremote.password
C:\MyPasswordFile\jmxremote.password NMCLIFEBOOK\Owner:R
```

[Previous](#)

[Contents](#)