

appzero 



AppZero

How to Create a MySQL Server 5.1 VAA

November 2009

Copyright © 2007-09 AppZero. All rights reserved.

Notice: All information contained herein is the property of AppZero Corp. No part of this document (whether in hardcopy or electronic form) may be reproduced or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of AppZero Corp. This document is protected by copyright and distributed under a license restricting its duplication, distribution and use. No part of this guide may be reproduced, adapted, or translated in any form by any means without the prior written consent of AppZero. Please consult the license under which this document was acquired in order to review all of the applicable restrictions.

AppZero and the AppZero logo are trademarks or registered trademarks of AppZero Corp. and may be registered in certain jurisdictions. Other AppZero graphics and logos are trademarks or trade dress of AppZero. Red Hat and all Red Hat-based trademarks and logos are trademarks or registered trademarks of Red Hat, Inc. in the United States and other countries. Linux is a registered trademark of Linus Torvalds in the U.S. and other countries. UNIX is a registered trademark of The Open Group. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Other company, product, and service names may be trademarks, registered trademarks, or service marks of their respective owners.

This publication and the information contained herein are subject to change without notice and are provided pursuant to the terms of the software license agreement to which it relates. All works provided by AppZero herein are provided on an "as is" basis and there are no warranties, representations or conditions, express or implied, written or oral, arising by statute, operation of law, course of dealing, usage of trade or otherwise, regarding them by AppZero (including its affiliates, licensors, suppliers, subcontractors and distributors). AppZero including its affiliates, licensors, suppliers, subcontractors and distributors disclaim any implied warranties or conditions of quality, merchantability, durability, fitness for a particular purpose and non-infringement.

AppZero Corp.

750 Palladium Dr., Suite 210
Ottawa, ON K2V 1C7
+1-613-254-5432
+1-866-980-2770

300 Brickstone Square, Suite 200
Andover, MA 01810
+1-617-830-9327
+1-866-980-2770

support@appzero.com
<http://www.appzero.com>

Table of Contents

About This Document	1
Additional Information	1
What's Ahead	2
Software and hardware prerequisites.....	2
Creating the VAA.....	3
Moving the VAA.....	8
Testing the VAA.....	9
Appendix A: Installing MySQL Server 5.1	10

About This Document

AppZero is an application virtualization solution for the data center that turns Windows applications into discrete, movable objects called AppZero virtual application appliances (VAA).

This document describes the steps for creating a MySQL Server 5.1 VAA.

Additional Information

The resources in this table can help you learn more about AppZero.

To more learn about	See
Creating and managing AppZero virtual application appliances (VAA). Among other things, this guide describes installing AppZero and using VAA Creator.	AppZero User Guide
Important and late breaking information	AppZero Release Notes
Other services and products	www.appzero.com

What's Ahead

In this document, you will use AppZero VAA Creator to create a VAA that contains MySQL Server 5.1.

In the prerequisites section, you will learn what software needs to be installed before you begin.

Throughout the remainder of the document, you will follow these steps:

- Create the VAA
- Move the VAA
- Test the VAA

Appendix A provides the steps for installing MySQL Server 5.1.

Software and hardware prerequisites

Before you create the VAA, you will need to install AppZero 4.1 32-bit on both the source and target host computers. The source host is the computer upon which the VAA is created; the target host is the computer upon which the VAA is deployed and used.

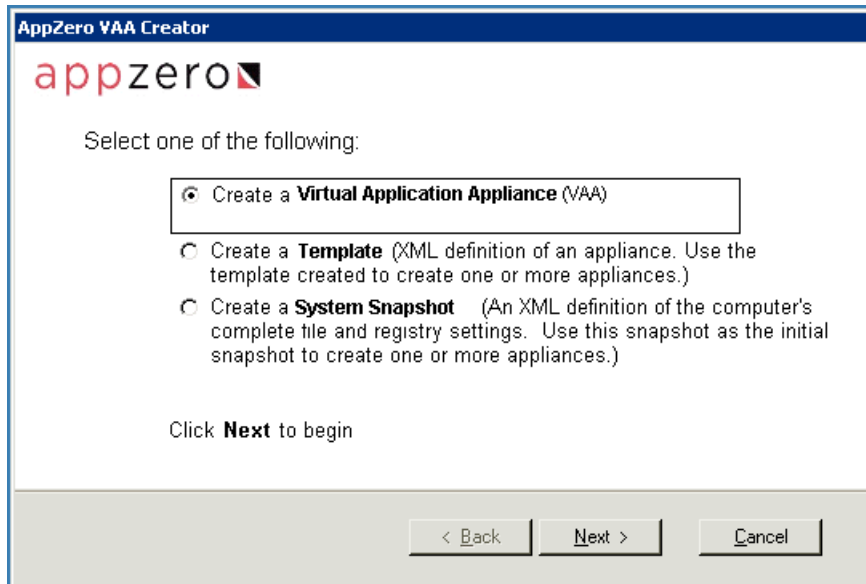
Note: *You must make sure that the version of AppZero and the platform are both 32-bit.*

Also, it is recommended that you start with a clean source computer; that is, a computer where MySQL Server 5.1 has never been installed. In doing so, you avoid the chance of missing files and registry settings or including unnecessary files or registry settings in the VAA.

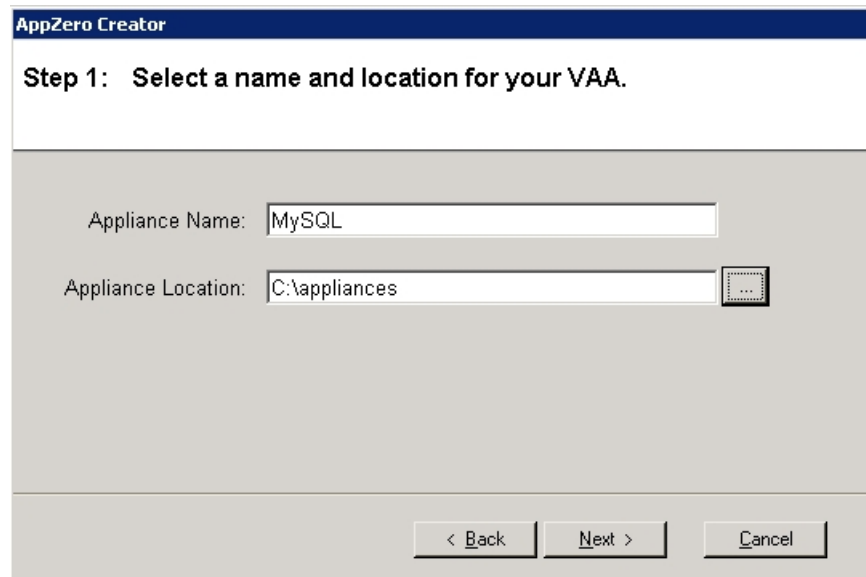
For information about supported platforms and installing AppZero 4.1, see the *AppZero User Guide*.

Creating the VAA

1. On the source host, start VAA Creator, select **Create a Virtual Application Appliance**, and then click **Next**.



2. Enter the name and location for the VAA, and then click **Next**.



3. Select **Snapshot** as the source to create the VAA, and then click **Next**.

The screenshot shows the 'AppZero Creator' window at 'Step 2: Select a source to create the appliance'. It features three radio button options: 'Snapshot' (selected), 'Appliance', and 'Template'. Each option has a descriptive text box. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

AppZero Creator

Step 2: Select a source to create the appliance

- Snapshot:** Create an appliance by comparing an initial and final snapshot of the operating system. The appliance's components (files, registry entries, and services) are defined by the differences between the two snapshots.
- Appliance:** Duplicate an appliance. The duplicate appliance is assigned a unique identifier ("CID") to distinguish it from the original appliance.
- Template:** Create an appliance from a template. The application's components must be already installed on this computer.

< Back Next > Cancel

4. Select **Create a new initial system snapshot**, and then click **Next**.

The screenshot shows the 'AppZero Creator' window at 'Step 3: Select the initial snapshot'. It includes a text box explaining that users can either create a new snapshot or use an existing one. There are two radio button options: 'Create a new initial system snapshot.' (selected) and 'Select a saved snapshot'. The 'Create a new initial system snapshot.' option has a sub-section with a 'Save snapshot' checkbox and two text input fields for 'Snapshot File Name' and 'Snapshot File Location'. The 'Select a saved snapshot' option has a text input field. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

AppZero Creator

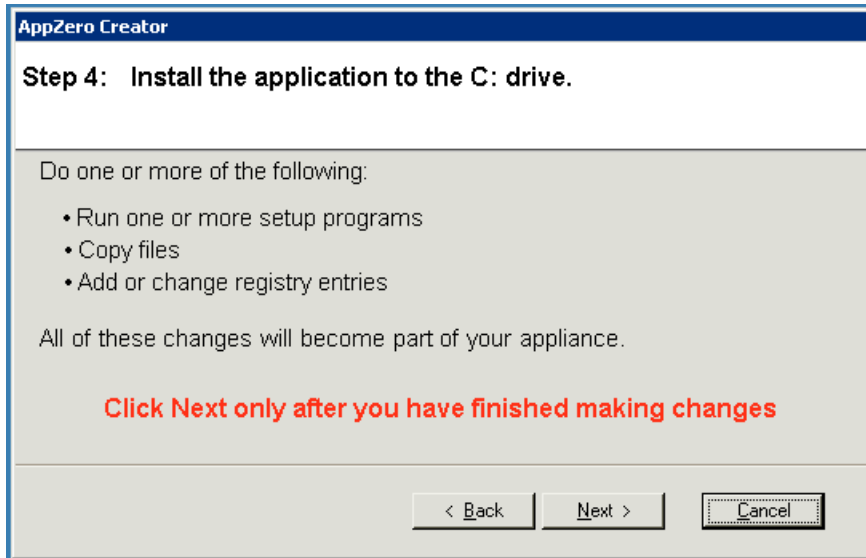
Step 3: Select the initial snapshot

You can either create a snapshot or use an existing one for the initial snapshot.

- Create a new initial system snapshot.**
 - Save snapshot
 - Snapshot File Name:
 - Snapshot File Location: ...
- Select a saved snapshot** ...

< Back Next > Cancel

The initial snapshot is created and the following window appears:



Important: Do not click Next or close this window. This window must remain open while you install MySQL Server 5.1.

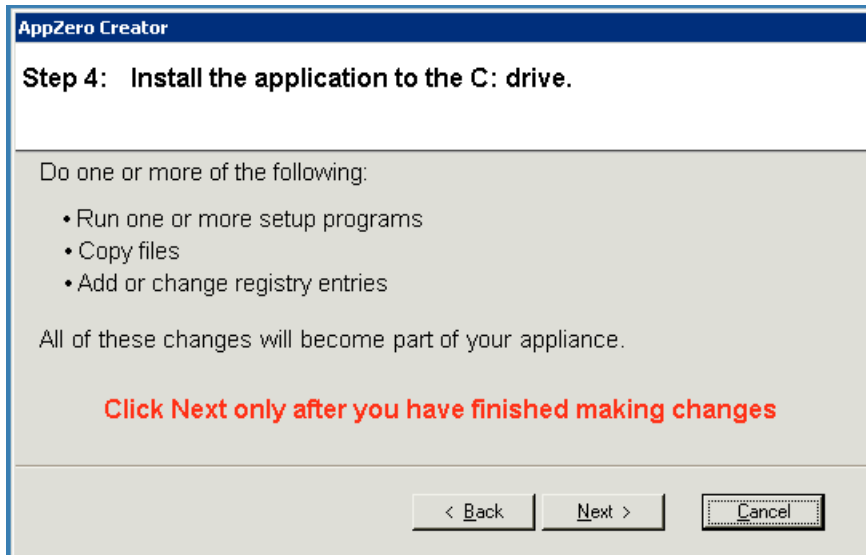
All of the changes that you make from this point will become part of the VAA.

5. Install MySQL Server 5.1 on the source computer's C: drive.

For information about installing MySQL Server 5.1, see Appendix A.

Once the MySQL Server 5.1 installation is complete, you are ready to create the final snapshot.

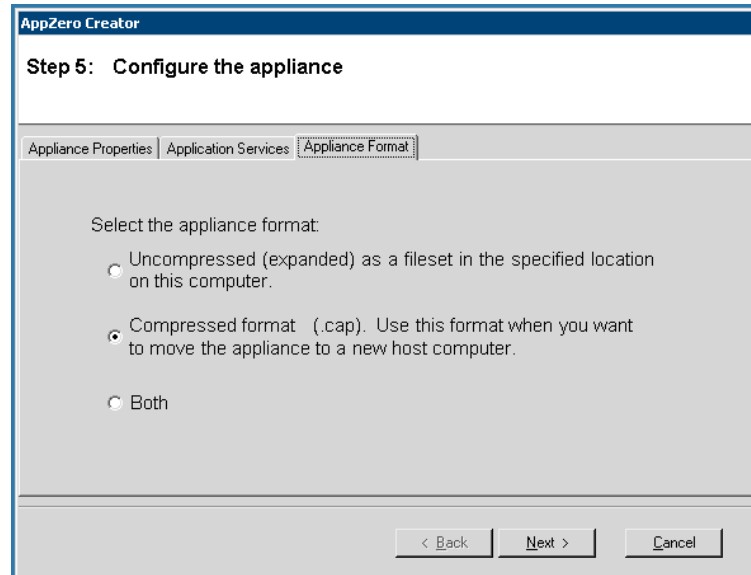
6. Locate the AppZero window, and then click **Next**.



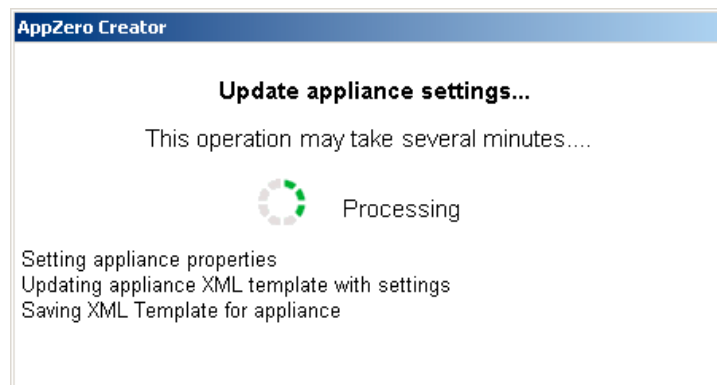
VAA Creator takes the final snapshot and compares the initial and final snapshots to create the VAA.

Important: Do not change or add files to the computer while this process is running. This includes using the web browser.

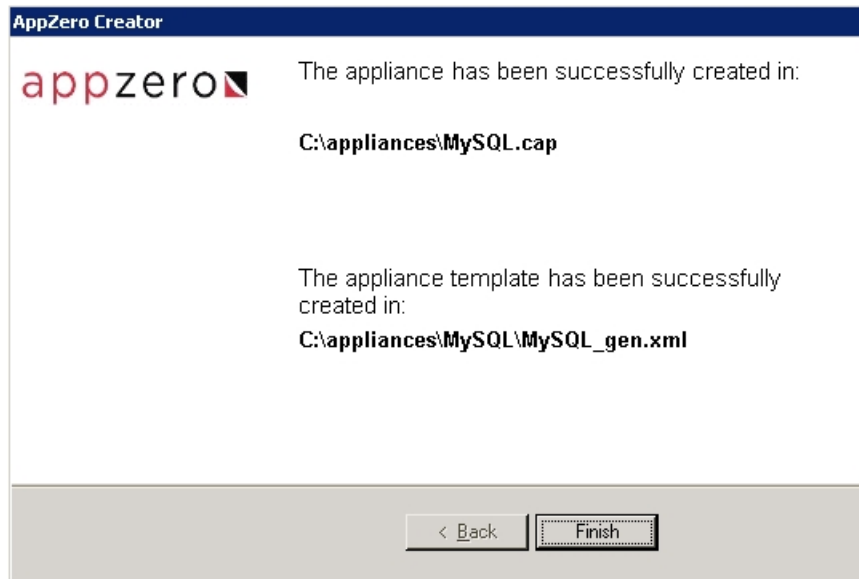
7. In the Appliance Format tab of the Configure the Appliance window, select **Compressed format** to save the VAA as a .cap file so that you can easily move the VAA to the target host.



8. Click **Next**. Wait for AppZero to finish processing the VAA.



When the processing is completed, the following window appears:



9. Click **Finish**.

Moving the VAA

To move a VAA to the target host, you must move the compressed VAA (MySQL.cap). Then, you must uncompress the file to begin using the VAA. One of the reasons for compressing the VAA is to preserve the short file names of the files in the VAA as they exist on the source computer.

Note: Do not use a third party file compression application to compress the VAA.

1. Move the MySQL.cap file to the C:\appliances directory on the target host.
2. In the Command Prompt window, change to the AppZero folder.

```
cd C:\Program Files\AppZero
```

3. Uncompress the .cap file.

```
uncompress C:\appliances\MySQL.cap
```

Testing the VAA

Before you test the VAA, make sure that the environment on the target host where you will be running the test is configured to meet the configuration requirements of MySQL Server 5.1 in the VAA.

To test the VAA

1. At the command prompt, type the following:

```
dock C:\appliances\MySQL
```

2. At the command prompt, type the following:

```
appzstart C:\appliances\MySQL
```

3. At the command prompt, open a new SQL command prompt window (within the MySQL appliance):

```
appzrun C:\appliances\MySQL C:\WINDOWS\system32\cmd.exe
```

4. At the command prompt, connect to the MySQL Command Line Client:

```
"C:\Program Files\MySQL\MySQL Server 5.1\bin\mysql.exe" -uroot -pappzero
```

Note: *The root password is the one as selected in Step 10 in Appendix A.*

5. To test MySQL Server 5.1, enter the following commands in the MySQL Command Line Client:

```
Connect test;
```

```
Create table t(c char(20));
```

```
Insert into t values('John');
```

```
Insert into t values('Peter');
```

```
Select * from t;
```

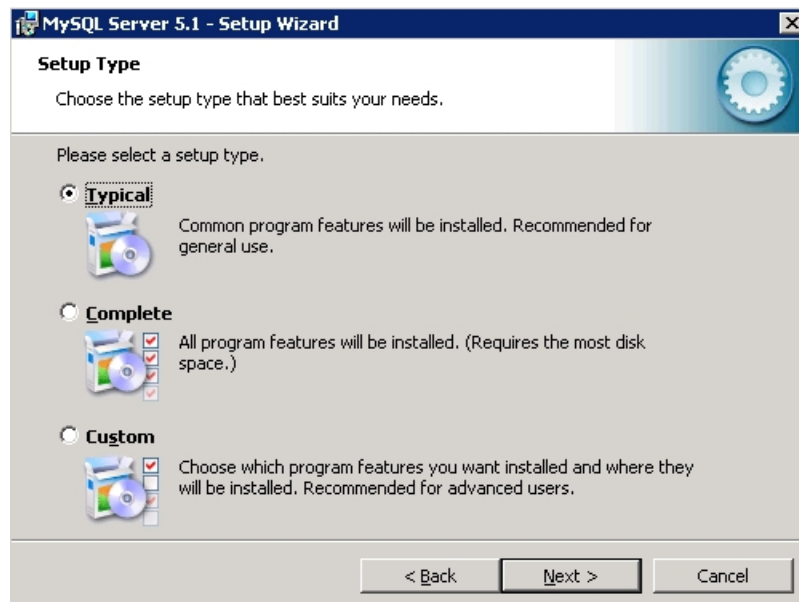
```
Exit
```

Appendix A: Installing MySQL Server 5.1

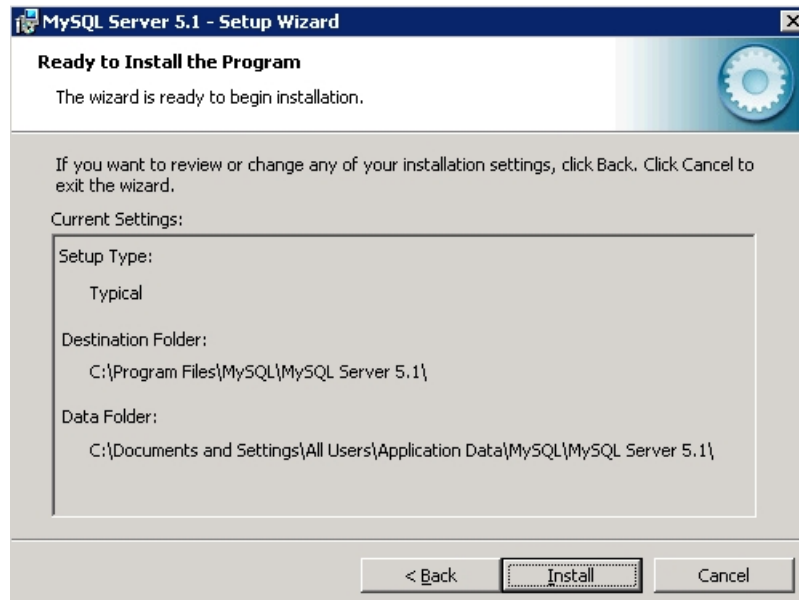
1. Start the MySQL Server 5.1 installer, and then click **Next**.



2. Click **Next**.



3. Click **Install**.



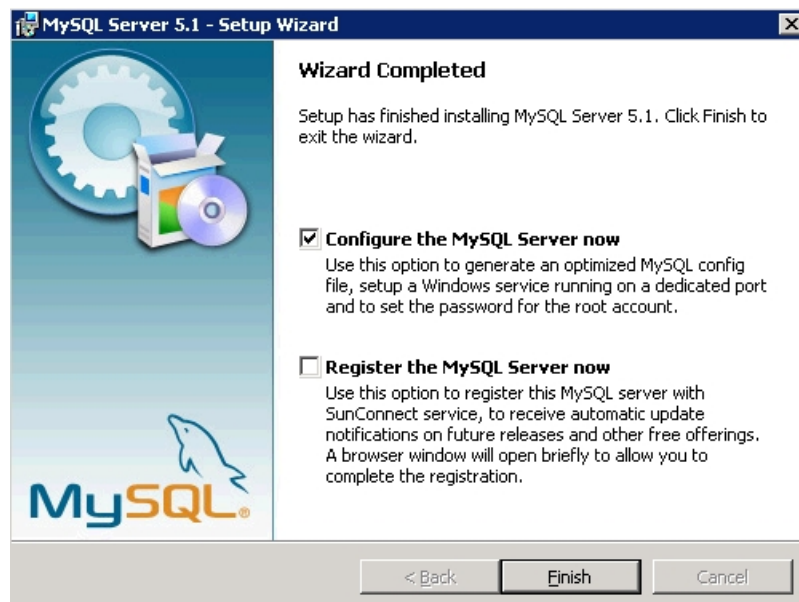
4. Click **Next**.



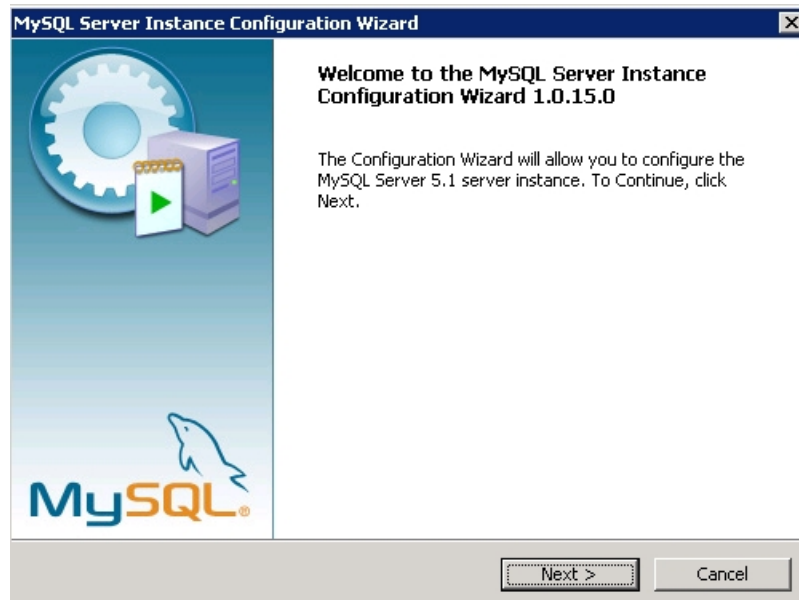
5. Click **Next**.



6. Deselect **Register the MySQL Server Now**, and then click **Finish**.



7. Click **Next**.



8. Select **Standard Configuration**, and then click **Next**.



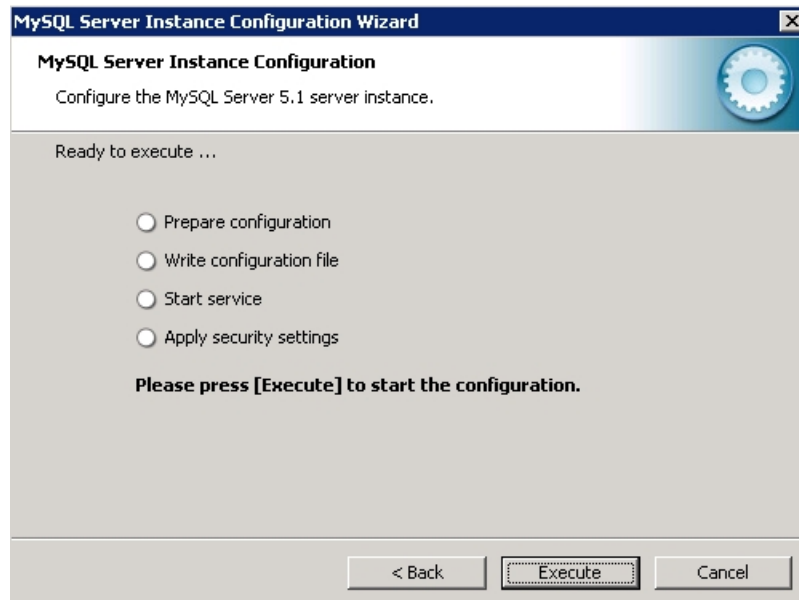
9. Click **Next**.



10. Enter a root password (i.e. appzero), select **Enable root access from remote machines**, and then click **Next**.



11. Click **Execute**.



12. Click **Finish**.

