

Lab 10.2: Configuring a Backup Job

IN719 Systems Administration

Introduction

In the last lab we performed a simple backup and restore to familiarise ourselves with the Bacula tools and processes. Configuring a “real” backup job is a bit more involved, however. Much of the necessary configuration required involves getting the various components to communicate over the network¹.

In this lab we will configure a job to backup files on our **mgmt** servers. After completing this lab you should be ready to configure backup jobs on all of your Linux servers.

1 Configure Bacula-fd on mgmt

1. Install the **bacula-client** package on **mgmt**.
2. Modify the configuration file **/etc/bacula/bacula-fd.conf**.
 - (a) In the *Director* section, change the name to **backup-dir** (or whatever your Bacula Director’s name is configured to be). Change the password value to something you can remember and copy accurately later.
 - (b) In the *FileDaemon* section, change the **FDAddress** to the IP address of your **mgmt** server. If your hosts file is set up properly, then you may be able to use your server’s fully qualified name instead.
 - (c) In the *Messages* section, change the name of the name of the director.
3. Restart the **bacula-fd** service after modifying the configuration.
4. Create the directory **/home/bacula/restores** and make sure that it is owned by bacula.

2 Configure Bacula-sd on backup

Right now our Bacula storage daemons are not configured to listen on the network. We need to make one small change to **/etc/bacula/bacula-sd.conf** on our **backup** servers.

In the *Storage* section, change the **SDAddress** to the ip address or hostname of your **backup** server. Restart the **bacula-sd** service.

3 Configure the Bacula director on backup

Make the following changes in **/etc/bacula/bacula-dir.conf**.

1. Find the *Storage* section that defines your **File** storage. Modify the **Address** property to use the IP address or hostname of your backup server.
2. Create a new Client definition for your **mgmt-fd** file daemon. The **Name** value should be **textttmgmt-fd**, the **Address** should match your **mgmt** server address, and the **Password** should match the password value from the **bacula-fd.conf** file on your **mgmt** server.
3. Create a new *FileSet* definition to identify the files you want backed up on **mgmt**. Set the **File** property to **/etc/puppet** so that your Puppet configuration is backed up. You can add additional **File** properties to the set as well.

¹You will need to have your hosts files properly set up in order for this lab to work.

4. Create a new *Job* definition for a backup job on `mgmt`. Set the `JobDefs` property to `DefaultJob` to inherit the default properties. Then you just need to override the ones that need to change. Override the `Name`, `FileSet`, and `Client` properties to give your new job a unique name, to use the new `FileSet` you defined, and to use the `mgmt-fd` client.
5. Restart the `bacula-director` service after changing the configuration.

4 Try your new backup job

Using `bconsole` on `backup`, try running your new backup job to be sure that it works. Then try a restore of that backup. Note that the restore process will copy the restored files to `/home/bacula/restores` on *the server from which the files were backed up* by default with our configuration.

Once this is done you are prepared to create backup jobs on all of your Linux servers following the same process described here.