Lab 07_01: Logging Configuration

Performance Checklist

Logging Configuration

Lab Overview:

In this exercise, you will define a **size-rotating-file-handler**.

Lab Resources/Configuration:

Lab Files Location:	*LABS/Lab07_01*
Application URL:	`http://192.168.0.xx:48080/LogTest/run`

Success Criteria: The LogTest application will successfully log events to your new handler.

Outcome: After completing this exercise, you will have a new size rotating file handler named **FILE_BY_SIZE_ROTATING**.

Lab Outline:

1. Configure the Handler
2. Configure the Logger
3. Run the Script
4. Verify the Logging Configuration
5. Deploy the LogTest Application

☐ 1. Configure the Handler

☐ 1.1. In your **machine1/domain** folder, make a new folder named **scripts**.

☐ 1.2. In your new **scripts** folder, define a new, empty text file named **add_sizerotating_log.cli**.

☐ 1.3. You are going to run a batch of commands, so the first line in your script needs to be:

```
batch
```

☐ 1.4. Change directories to the **logging** subsystem level of the **default** profile:

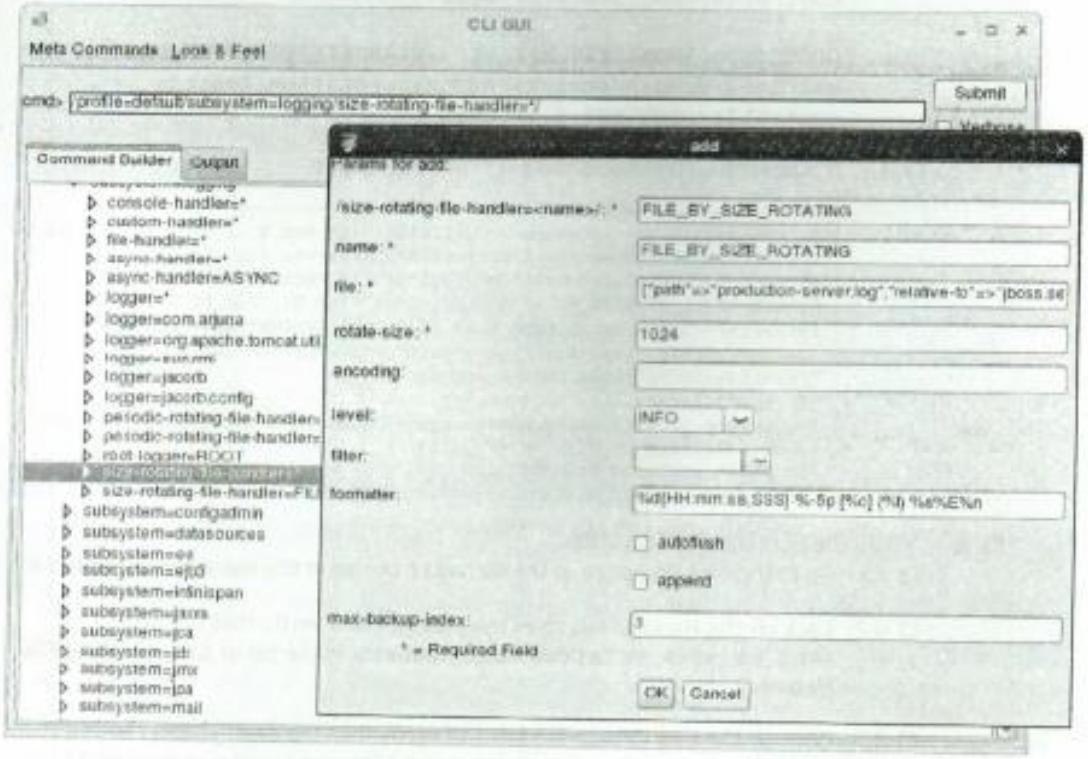
```
cd /profile=default/subsystem=logging
```

☐ 1.5. The handler is going to be a **size-rotating-file-handler**. You can define it in a single command (entered on a single line). Read the tip below before adding this to your script:

```
./size-rotating-file-handler=FILE_BY_SIZE_ROTATING:add(
    name=FILE_BY_SIZE_ROTATING,
    level=INFO,
    formatter="%d{HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n",
```

```
    max-backup-index=3,
    rotate-size=1024,
    file={
        "path"=>"production-server.log",
        "relative-to"=>"jboss.server.log.dir"
    }
)
```

TIP: Instead of typing this command directly into your **`add_sizerotating_log.cli`** file, use the CLI GUI tool to create it for you. Then copy-and-paste the command from the CLI GUI into your text file. You can copy-and-paste the value of **`formatter`** from the ***`LABS/Lab07_01/add_sizerotating_log.cli`*** solution file.



☐ 2. Configure the Logger

☐ 2.1. After the **`add`** operation from the previous step, add a command that defines a new logger named **`com.jboss.logtest`** with a log level of **`INFO`** and that uses the **`FILE_BY_SIZE`** handler. The command should look like the following (entered on a single line):

```
./logger=com.jboss.logtest:add(
    category=com.jboss.logtest,
    level=INFO,
    handlers=["FILE_BY_SIZE_ROTATING"]
)
```

☐ 2.2. Add the **`run-batch`** command to the end of the script:

```
run-batch
```

- ☐ 2.3. Save your changes to **add_sizerotating_log.cli**.

☐ 3. Run the Script

- ☐ 3.1. Open a terminal window (or command prompt on Windows) and change directories to your **jboss-eap-6.0.0/bin** folder.
- ☐ 3.2. To run the script, enter the following command:

  On RHEL: **./jboss-cli.sh -c --file=*STUDENT_HOME*/opt/machine1/domain/scripts/add_sizerotating_log.cli --controller=192.168.0.*xx*:9999**

  On Windows: **jboss-cli.bat -c --file=*STUDENT_HOME*/opt/machine1/domain/scripts/add_sizerotating_log.cli --controller=192.168.0.*xx*:9999**

- ☐ 3.3. If successful, you should see the following output:

```
$ ./jboss-cli.sh --connect --controller=192.168.0.xx:9999 --file=/home/
student/JB248/opt/machine1/scripts/add_sizerotating_log.cli
#1 /profile=default/subsystem=logging/size-rotating-file-
handler=FILE_BY_SIZE_ROTATING:add(name="FILE_BY_SIZE_ROTATING",level=INFO,
formatter="%d{HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n",max-backup-
index=3,rotate-size=1024,file={"path"=>"production-server.log",
"relative-to"=>"jboss.server.log.dir"})
#2 /profile=default/subsystem=logging/
logger=com.jboss.logtest:add(category="com.jboss.logtest",level=INFO,
handlers=["FILE_BY_SIZE_ROTATING"])
The batch executed successfully
```

☐ 4. Verify the Logging Configuration

- ☐ 4.1. Go to the **Logging** page of the **default** profile in the Management Console.
- ☐ 4.2. Click on the **Handler** tab, then the **Size** link and verify that the **FILE_BY_SIZE_ROTATING** handler appears in the list of **Size Rotating File Handlers**.
- ☐ 4.3. Click on the **Log Categories** tab and verify that the **com.jboss.logtest** category is using the **FILE_BY_SIZE_ROTATING** handler at the **INFO** level.
- ☐ 4.4. Look for a new, empty file named **production-server.log** in the **machine2/domain/servers/dev-server-one/log** folder. The server **log** folders of **dev-server-two** should also have a new, empty log file named **production-server.log**.

☐ 5. Deploy the LogTest Application

- ☐ 5.1. Deploy **LogTest.war**, found in your ***LABS*/Lab07_01/** folder, to the **dev-group** Server Group.

- ☐ 5.2. Point your browser to `http://192.168.0.xx:8080/LogTest/run` to view the LogTest application running on **`dev-server-two`**. You should see a simple web page explaining what the **`LogTest`** application does.
- ☐ 5.3. Refresh the **`/LogTest/run`** page in your web browser 2-3 times to generate a large batch of log events.
- ☐ 5.4. Check the **`machine2/domin/servers/dev-server-two/log`** folder. You should see multiple **`production-server.log`** files, but no more than 3 backup files and the current **`production-server.log`** file.