**Nginx Logging**

**Practicing Spring Boot Log Monitoring**

**1. Create a Dummy Spring Boot Log File**

#### mkdir -p logs

#### nano logs/spring.log

**2.** Log Commands

* + View latest log lines

#### tail logs/spring.log

* + Follow log in real time

#### tail -f logs/spring.log

* + View specific number of lines from bottom

#### tail -n 10 logs/spring.log

* + Search for specific keyword

#### grep ERROR logs/spring.log

* + Highlight and search with context

#### grep -A 2 -B 2 "ERROR" logs/spring.log

#### -A 2: After 2 lines

#### -B 2: Before 2 lines

* + Search case-insensitively

#### grep -i "payment" logs/spring.log

**3. Check for Specific Errors in Real Deployments**

#### grep "Exception" logs/spring.log

#### grep "at " logs/spring.log

To list only unique errors:

#### grep "ERROR" logs/spring.log | cut -d']' -f2 | sort | uniq

### **4. Useful Combination**

Get the last 100 lines, filter only error logs:

#### tail -n 100 logs/spring.log | grep ERROR

**Basic JAR File Handling**

### **Step 1:** Create a Practice Directory

#### mkdir ~/jar-practice

#### cd ~/jar-practice

**Step 2:** Create Dummy Files and Directory Structure

#### touch NSPay.jar NSPay\_stable.jar

#### mkdir -p BOOT-INF/classes

#### echo "dummy=config" > BOOT-INF/classes/application.properties

**Step 3:** Update JAR File With Configuration File

#### jar uf NSPay.jar BOOT-INF/classes/application.properties

**Step 4:** Rename or Move JAR Files

#### mv NSPay.jar NSPay\_stable.jar

#### mv NSPay\_stable.jar NSPay.jar

**Managing the Java Service**

**1.** Restart the Service

#### sudo systemctl restart nsb-app.service

**2.** Check the Service Status

#### sudo systemctl status nsb-app.service

**Viewing and Following Logs**

**1.** File Listing & Management

* ls -ltr

-l: long listing format (permissions, owner, size, date)

-t: sorted by modification time (newest first)

-r: reverse order (oldest first)

* mv old\_name new\_name

#### mv NSBPay.jar NSBPay\_stable.jar

#### mv /home/asela/NSBPay-1.0.0-SNAPSHOT.jar NSPay.jar

**2.** Navigate to Your Log Directory

#### cd /opt/nsb/logs # Replace path

**2**. Live Log Monitoring

#### tail -f spring.log

**3**. PRACTICE Tail Commands

* 1. Create Dummy Logs

#### mkdir ~/log-practice

#### cd ~/log-practice

#### echo "Log line 1" > mylog.txt

#### echo "Log line 2" >> mylog.txt

#### echo "Log line 3" >> mylog.txt

* 1. Show Last 2 Lines

#### tail -n 2 mylog.txt

* 1. Show Live Logs

#### tail -f mylog.txt

