

Note: We first **found the flag the non-intended way** with the same password to ftp as ssh.

We continued on the ip **10.162.20.88:8282** (tomcat server) in **/manager**, where we could **upload a war file**. We noticed that when **trying** to make a **reverse shell** we could **not get a netcat connection** to it when listening and it gave **no response**. We **could deploy .war files** to the **manager** and we tried **different versions** of a **reverse shell without success**. We thought **maybe outbound connections were blocked**. We **searched online** for some other **shell code executables** and **found a webshell**.

From here we got their code

<https://gist.github.com/nikallass/5ceef8c8c02d58ca2c69a29a92d2f461> and used the commands **nano index.js** and **pasted** the code. Then **compiled** the code **into a .war file** with:

```
mkdir webshell
```

```
cp index.js webshell
```

```
cd webshell
```

```
jar -cvf ../webshellP1.war *
```

We **uploaded the war file** in the **tomcat server** and **deployed** it.

When going into **http://10.162.20.88:8282/webshell** here we **got a webshell** we could **execute commands remotely** on the **target machine** and **display the output on the website**. Next we **stacked two commands** so that the **webshell displayed all the directories** with the command:

```
cd C:\ & dir /s /b /o:gn
```

This **dumps all the files on the system** and **displays them on the webpage**. We then found the flag by doing **Ctrl+F "flag"** and got the **flags 4,5 and 6**.

Flag 6 we found was:

```
flag{cd699a4b257eb56c70b1037cc9ebeab7091b76a3a8d427}
```