

LAB 02

It23464032

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Start

```
skiladurasi@Akiles-MacBook-Pro ~ % chmod 400 Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem
skiladurasi@Akiles-MacBook-Pro ~ % ssh -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem ec2-user@13.61.3.244
Last login: Mon Aug  4 10:27:18 2025 from 124.43.289.177
[ec2-user@ip-172-31-32-236 ~]$
```

From local to EC2 (part 02)

```
skiladurasi@Akiles-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem file.txt ec2-user@13.61.3.244:~
scp: stat local 'file.txt': No such file or directory
skiladurasi@Akiles-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem Desktop/SLIIT/Y3S1/PC/Labs/ANS/tilt/a003/tilt/a003/file.txt ec2-user@13.61.3.244:~
file.txt
skiladurasi@Akiles-MacBook-Pro ~ % ssh -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem ec2-user@13.61.3.244
Last login: Mon Aug  4 10:28:43 2025 from 124.43.289.177
[ec2-user@ip-172-31-32-236 ~]$ ls
file.txt 12337728 12337728.s  my_hello my_hello.c start.c
[ec2-user@ip-172-31-32-236 ~]$
```

From local to EC2 directory (part 02)

```
skiladurasi@Akiles-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem -r Desktop/SLIIT/Y3S1/PC/Labs/ANS/public-ip:/myproject/
rsh: no such file or directory: public-ip
skiladurasi@Akiles-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem -r Desktop/SLIIT/Y3S1/PC/Labs/ANS/Lab00/myproject/ ec2-user@13.61.3.244:/myproject/
rsh: no such file or directory: Lab00/myproject
rsh: no such file or directory: Lab00/myproject/lab02/myproject/to-/myproject/
rsh: no such file or directory: Lab00/myproject/lab02/myproject/to-/myproject/
skiladurasi@Akiles-MacBook-Pro ~ % ssh -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem ec2-user@13.61.3.244
Last login: Mon Aug  4 10:30:34 2025 from 124.43.289.177
[ec2-user@ip-172-31-32-236 ~]$ ls
connection to 13.61.3.244 closed.
[ec2-user@ip-172-31-32-236 ~]$ exit
rsh: connection to 13.61.3.244 closed.
[ec2-user@ip-172-31-32-236 ~]$ ssh -i Desktop/SLIIT/Y3S1/PC/Labs/ANS\ key/PC01.pem ec2-user@13.61.3.244:/myproject/
[ec2-user@ip-172-31-32-236 ~]$ ls
[ec2-user@ip-172-31-32-236 ~]$
```

From EC2 to Local (part 02)

```
skillerdars@Akillas-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/AW51_key/PC01.pem ec2-user@13.61.3.244:/l23372726 ./downloaded_1
skillerdars@Akillas-MacBook-Pro ~ % scp download_it23372726/c not a regular file
skillerdars@Akillas-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/AW51_key/PC01.pem ec2-user@13.61.3.244:/l23372726.c ./downloaded_1
skillerdars@Akillas-MacBook-Pro ~ % ls -l downloaded_output.txt
ls: downloaded_output.txt: No such file or directory
skillerdars@Akillas-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/AW51_key/PC01.pem ec2-user@13.61.3.244:/l23372726.c ./downloaded_1
skillerdars@Akillas-MacBook-Pro ~ % scp -i Desktop/SLIIT/Y3S1/PC/Labs/AW51_key/PC01.pem ec2-user@13.61.3.244:/l23372726.c ./Desktop/SLIIT/Y3S1/PC/Labs/lab09/downloaded_it23372726.c
skillerdars@Akillas-MacBook-Pro ~ % ls
skillerdars@Akillas-MacBook-Pro ~ %
```

Lab02

- start
- file.txt
- myproject
- downloaded_it23372726.c

from local to EC2
from local to EC2
directory

From EC2 to Local directory (part 02)

SFTP (part 03)

```
skilaudara@Akilas-MacBook-Pro ~ % sftp -oidentityFile="$HOME/Desktop/SLIIT/Y3S1/PC/Labs/AWS\ key/PC01.pem" ec2-user@13.61.3.244 <<< $'ls /home/ec2-user

Connected to 13.61.3.244.
sftp> ls /home/ec2-user/
/home/ec2-user/.done          /home/ec2-user/.file.txt
/home/ec2-user/.it23372726    /home/ec2-user/.it23372726.c
/home/ec2-user/.myproject      /home/ec2-user/.omp_hello
/home/ec2-user/.omp_hello.c    /home/ec2-user/.otest.o
skilaudara@Akilas-MacBook-Pro ~ %
```

```
skilaunder@AkiLies-MacBook-Pro ~ % sftp -o IdentityFile="Desktop/BLII7/Y9S3/PC/Labs/WS1/key/PC01.pem" -oC2-user@Y9S3.61.7.244

Connected to 13.41.3.744.
sftp> ls
done      file.txt    it239372726  it239372726.c myproject  omp_hello  omp_hello.c  otest.o
sftp> put file.txt
stat file.txt: No such file or directory
sftp> put ./Desktop/BLII7/Y9S3/PC/Labs/Lab03/file.txt
Uploading ./Desktop/BLII7/Y9S3/PC/Labs/Lab03/file.txt to /home/ec2-user/file.txt
file.txt
sftp> get output.txt
File "/home/ec2-user/output.txt" not found.
sftp> get output.txt
File "/home/ec2-user/output.txt" not found.
sftp> put omp_hello.c
Fetching /home/ec2-user/omp_hello.c to omp_hello.c
omp_hello.c
sftp> exit
sftp>
```

Checking Remote Directories without SS Hinge (part 04)

```
akilaudara@Akilas-MacBook-Pro ~ % ssh -i "Desktop/SLIIT/Y3S1/PC/Labs/AWS key/PC01.pem" ec2-user@13.61.3.244 "ls -lh /home/ec2-user/"
total 52K
drwxr-xr-x. 3 ec2-user ec2-user 24 Jul 30 08:04 done
-rw-r--r--. 1 ec2-user ec2-user 4 Aug 4 11:04 file.txt
drwxr-xr-x. 3 ec2-user ec2-user 43 Jul 30 14:44 it23372726
-rw-r--r--. 1 ec2-user ec2-user 263 Jul 29 04:02 it23372726.c
drwxr-xr-x. 3 ec2-user ec2-user 23 Aug 4 10:48 myproject
-rw-r--r--. 1 ec2-user ec2-user 17K Jul 28 16:52 omp_hello
-rw-r--r--. 1 ec2-user ec2-user 226 Jul 28 16:52 omp_hello.o
-rw-r--r--. 1 ec2-user ec2-user 17K Jul 29 04:02 otest.o
akilaudara@Akilas-MacBook-Pro ~ %
```

Part05

```
akilaudara@Akilas-MacBook-Pro ~ % rsync -avz -e "ssh -i '/Users/akilaudara/Desktop/SLIIT/Y3S1/PC/Labs/AWS key/PC01.pem'" ./Desktop/SLIIT/Y3S1/PC/Labs/Lab02/myproject ec2-user@13.61.3.244:-/myproject/
Transfer starting: 3 files
myproject/
myproject/.DS_Store
myproject/test.txt

sent 494 bytes received 76 bytes 1018 bytes/sec
total size is 6152 speedup is 10.79
akilaudara@Akilas-MacBook-Pro ~ %
```

Part06

```
ss: Could not resolve hostname 13.61.3.244:77. hostname not sevname provided, or not known
akilaudara@Akilas-MacBook-Pro ~ % ssh -i Desktop/SLIIT/Y3S1/PC/Labs/AWS\ key/PC01.pem ec2-user@13.61.3.244
#_
#_ _###_ Amazon Linux 2023
#_ \###\
#_ \###|
#_ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
#_ V~' `:>
#_ /
#_ ._. /
#_ /_/
#_ /m'

Last login: Mon Aug 4 10:49:01 2025 from 124.43.209.177
[ec2-user@ip-172-31-32-236 ~]$ nano parallel_add.c
[ec2-user@ip-172-31-32-236 ~]$ gcc -fopenmp parallel_add.c -o parallel_add
[ec2-user@ip-172-31-32-236 ~]$ ./parallel_add
Running with 4 threads.
Completed computation. Sample result: C[100] = 250.000000
Time taken: 0.000196 seconds
[ec2-user@ip-172-31-32-236 ~]$
```

Part07

```
[ec2-user@ip-172-31-32-236 ~]$ sudo yum install make -y
Last metadata expiration check: 1:28:08 ago on Mon Aug 4 10:04:07 2025.
Package make-1:4.3-5.amzn2023.0.2.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-32-236 ~]$ nano main.c
[ec2-user@ip-172-31-32-236 ~]$ nano utils.c
[ec2-user@ip-172-31-32-236 ~]$ nano Makefile
[[ec2-user@ip-172-31-32-236 ~]$ make
gcc -Wall -c main.c
gcc -Wall -c utils.c
gcc -Wall -o myapp main.o utils.o
[[ec2-user@ip-172-31-32-236 ~]$ ./myapp
Hello from main
Hello from utils
[ec2-user@ip-172-31-32-236 ~]$ make clean
rm -f *.o myapp
[[ec2-user@ip-172-31-32-236 ~]$ make -j4
gcc -Wall -c main.c
gcc -Wall -c utils.c
gcc -Wall -o myapp main.o utils.o
[ec2-user@ip-172-31-32-236 ~]$
```

Main.c in makefile

```
#include <stdio.h>
void util_function();

int main() {
    printf("Hello from main\n");
    util_function();
    return 0;
}
```

Utils.c

```
#include <stdio.h>

void util_function() {
    printf("Hello from utils\n");
}
```