Description	Direct SSH Commands	SSH Shell Commands
Connect as a specific user.	**ssh [username]@[hostname_or_IP]**	**N/A**
Connect using a non-standard port number.	**ssh -p [port] [username]@[hostname_or_IP]**	**N/A**
Generate SSH keys to streamline authentication.	**ssh-keygen -t rsa**	**N/A**
Copy local SSH public key to remote server.	**ssh-copy-id [username]@[hostname_or_IP]**	**N/A**
Copy file from local machine to remote directory.	**scp [filename] [username]@[hostname_or_IP]:/remote/directory**	**N/A**
Copy file from remote server to local machine.	**scp [username]@[hostname_or_IP]:/remote/file/path /local/directory**	**N/A**
Recursively copy local directory to remote server.	**scp -r /local/directory [username]@[hostname_or_IP]:/remote/destination**	**N/A**
Transfer files between systems via SFTP.	**sftp [username]@[hostname_or_IP]**	**N/A**
Compress and transfer directory from local to remote server.	**tar -czf - /path/to/local/directory | ssh [username]@[hostname_or_IP] 'tar -xzf - -C /path/to/remote/directory'**	**N/A**
Compress and transfer remote directory to local machine.	**ssh [username]@[hostname_or_IP] 'tar -czf - /path/to/remote/directory' | tar -xzf - -C /path/to/local/directory**	**N/A**
Synchronize files from remote to local server.	**rsync -avz -e ssh [username]@[hostname_or_IP]:/remote/file.name /local/file.name**	**N/A**
Synchronize files from local to remote server.	**rsync -avz -e ssh /local/file.name [username]@[hostname_or_IP]:/remote/file.name**	**N/A**
List the contents of a remote directory.	**ssh [username]@[hostname_or_IP] 'ls -l /remote/directory'**	**ls -l /remote/directory**
Move or rename file on remote server.	**ssh [username]@[hostname_or_IP] 'mv /path/source/file /path/destination/directory'**	**mv [filename] /path/destination/directory**
Create a new directory on the remote server.	**ssh [username]@[hostname_or_IP] 'mkdir /path/new_directory_name'**	**mkdir /path/new_directory_name**
Delete a file on the remote server.	**ssh [username]@[hostname_or_IP] 'rm /path/to/file'**	**rm /path/to/file**
Change file permissions.	**ssh [username]@[hostname_or_IP] "chmod [permission] /path/to/file_or_directory"**	**chmod [permission] /path/to/file_or_directory**
Change file ownership.	**ssh [username]@[hostname_or_IP] "chown new_owner:group /path/to/file_or_directory"**	**chown new_owner:group /path/to/file_or_directory**
Check disk space usage on the remote server.	**ssh username@hostname_or_IP 'df -h'**	**df -h**
Monitor syslog file on remote server in real-time.	**ssh username@hostname_or_IP 'tail -f /var/log/syslog'**	**tail -f /var/log/syslog**
Monitor remote system performance using **htop**.	**ssh [username]@[hostname_or_IP] "htop"**	**htop**
Set up local port forwarding.	**ssh -L local_port:destination_server_ip:remote_port [username]@[hostname_or_IP]**	**N/A**
Set up remote port forwarding.	**ssh -R remote_port:localhost:local_port [username]@[hostname_or_IP]**	**N/A**
Set up dynamic port forwarding.	**ssh -D [local_port] [username]@[hostname_or_IP]**	**N/A**
Mount remote directory on local machine via SSHFS.	**sshfs [username]@[hostname_or_IP]:/path/to/remote/directory /path/to/local/directory**	**N/A**
Keep SSH connection alive.	**ssh -o "ServerAliveInterval=60" [username]@[hostname_or_IP]**	**N/A**
Disconnect from remote session.	**N/A**	**exit** or **logout**