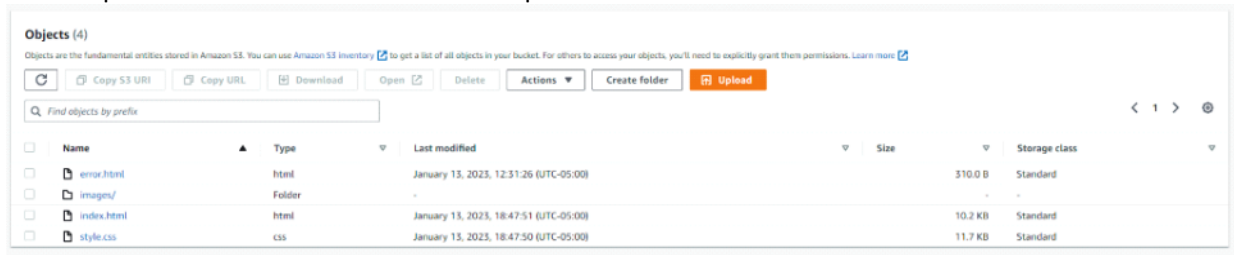


KEY

Monday, February 20, 2023 8:39 PM

Important Headings are Underlined and Bold:

- A bullet point indicates a note and NOT a step



The screenshot shows the Amazon S3 'Objects' console. At the top, there's a header 'Objects (4)' and a description: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)'. Below this is a toolbar with buttons: 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar 'Find objects by prefix' is also present. The main area is a table with columns: 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. The table contains four rows: 'error.html' (html, 310.0 B, Standard), 'images/' (Folder, -, Standard), 'index.html' (html, 10.2 KB, Standard), and 'style.css' (css, 11.7 KB, Standard).

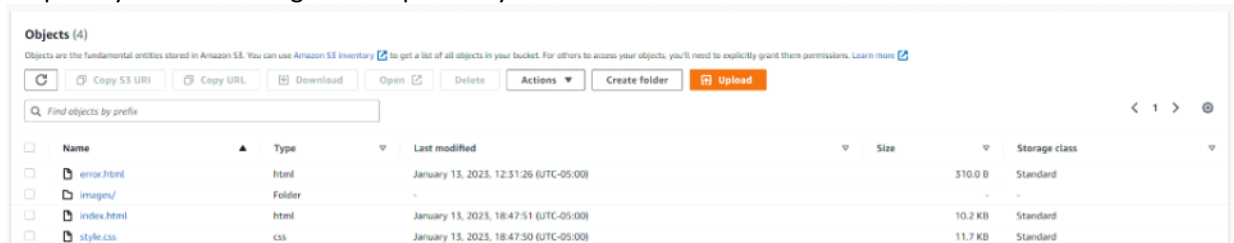
Name	Type	Last modified	Size	Storage class
error.html	html	January 13, 2023, 12:31:26 (UTC-05:00)	310.0 B	Standard
images/	Folder	-	-	Standard
index.html	html	January 13, 2023, 18:47:51 (UTC-05:00)	10.2 KB	Standard
style.css	css	January 13, 2023, 18:47:50 (UTC-05:00)	11.7 KB	Standard

- Bullet points may have images along with them to help visually
 - Bullet points may also have sub-bullet points for a more in-depth explanation

Headings in Bold Also Indicate Important Steps:

1. Steps are numbered, every new page starts with Step 1 and so on
 - a. Steps may have sub-steps to add more information

2. Steps may also have images to help visually



This is a duplicate of the screenshot above, showing the Amazon S3 'Objects' console with a table of objects: error.html, images/, index.html, and style.css.

3. **Word** in steps indicate a button

4. *Italicized* words in steps indicate input fields or options

5. Keyboard Input in Courier New Font

6. Underlined words indicate files

7. Menu navigation is indicated by the pipe symbol and italic words: *Start / Programs / MS Word*

8. Numbers referencing other steps will be in red(1...2...3)

9. Code will be in a textbox in COURIER NEW font

```
#include <stdio.h>

int main(void)
{
    printf("Hello World in C:");
    return 0;
}
```

Enabled SSH in Windows Server

Friday, February 24, 2023 12:49 PM

Enabled SSH:

1. In Server Manager, navigated to the *Local Server* menu in the right column

- a. Set *IE Enhanced Security Configuration* to *OFF*

Microsoft Defender Antivirus	Real-Time Protection: On
Feedback & Diagnostics	Settings
IE Enhanced Security Configuration	Off
Time zone	(UTC-05:00) Eastern Time (US & Canada)

2. Downloaded and installed OpenSSH

- a. In Windows Server, opened Internet Explorer by clicking the icon in the taskbar

- b. In the URL, went to the following website to download the latest version of Open SSH:

<https://github.com/PowerShell/Win32-OpenSSH/releases>



- c. Once file was downloaded, right clicked the *.zip* file and extracted all contents to : *C:\Program Files\OpenSSH-Win64*
- d. Opened PowerShell by searching for *PowerShell* in the Windows search icon and ran as administrator by right clicking and clicking *Run as Administrator*

- e. Modified the path system environment variable by running the following command and pressed **Enter** : `setx PATH "$env:path;C:\Program Files\OpenSSH-Win64" -m`

```
PS C:\Windows\system32> setx PATH "$env:path;C:\Program Files\OpenSSH-Win64" -m
SUCCESS: Specified value was saved.
```

- f. Switched to the location of OpenSSH directory by running the following command: `cd "C:\Program Files\OpenSSH-Win64\OpenSSH-Win64"`
- g. Ran the install script using the following command: `.\install-sshd.ps1`
- h. When Security Warning appears, selected the *[R]Run Once* option

3. Enabled automatic startup and started the *sshd* and *ssh-agent* by running the following command:

- a. `Set-Service sshd -StartupType Automatic; Set-Service ssh-agent -StartupType Automatic; Start-Service sshd; Start-Service ssh-agent`

Allowed Access to Programs in Firewall:

1. Allowed access in Firewall

- a. Opened Control Panel and navigated to *System and Security | Windows Firewall | Advanced Settings* and selected the *Inbound Rules* option located on the left-hand side
- b. In Inbound Rules, selected *New Rule* on the right-hand side and conducted the following tasks to add a new rule:
- c. In pop-up menu, selected *Custom option* and clicked **Next**
- d. In Programs, selected *All Programs* option and clicked **Next**
- e. Left Protocols and Ports on default settings and clicked **Next**
- f. Left Scope on default settings and clicked **Next**
- g. In the Action menu, selected *Allow the Connection* and clicked **Next**

- h. Under profile, left *Domain*, *Private*, and *Public* all checked and clicked **Next** and then **Finish**

SSH to a Server:

- In this example, Windows Server will SSH to an Ubuntu machine
1. In Windows Server, opened a PowerShell terminal as administrator
 2. In terminal, entered `ssh admin_local@172.16.0.102`
 - a. When prompted, entered password

```
PS C:\Windows\system32> ssh admin_local@172.16.0.102
admin_local@172.16.0.102's password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.19.0-32-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Thu Feb 16 19:35:19 2023 from 172.16.0.1
admin_local@ubuntu:~$
```

3. SSH connection was successfully established

Enabled SSH Ubuntu

Friday, February 24, 2023 2:14 PM

Enabled SSH on Ubuntu:

1. Logged into Ubuntu with an admin account and opened a terminal
2. Entered `sudo apt update` to update packages
3. If packages weren't up to date, used `sudo apt upgrade` to install the updates
4. Used `sudo apt install openssh-server` to install OpenSSH
5. Verified that the SSH service is started by executing `sudo systemctl status ssh`
 - a. Service should be running
6. Allowed SSH(port22) through Firewall by running `sudo ufw allow ssh`

```
Active: active (running)
```

SSH to a Server:

- In this example, Ubuntu will SSH into Windows Server

1. In a terminal, entered `ssh@admin@172.16.0.1`
 - a. When prompted about connection, entered `yes`

```
admin@maindomain.com@ubuntu:~$ ssh admin@172.16.0.1
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.16.0.1' (ED25519) to the list of known hosts.
admin@172.16.0.1's password:
Microsoft Windows [Version 10.0.20348.1487]
(c) Microsoft Corporation. All rights reserved.

maindomain\admin@DC C:\Users\admin>
```

2. SSH Connection was successfully established