

OpenSUSE simple web page and simple web server.

The presentation creates a very simple web page. The presentation creates a basic web server configuration. The presentation configures the web server to display the simple web page.

Hardware/Software in this presentation

Operating System: OpenSUSE Leap 42.2 (M State Moorhead spring 2017 version)

Operating System: Windows 10 Anniversary Update

Preuss

4/25/2017

Player

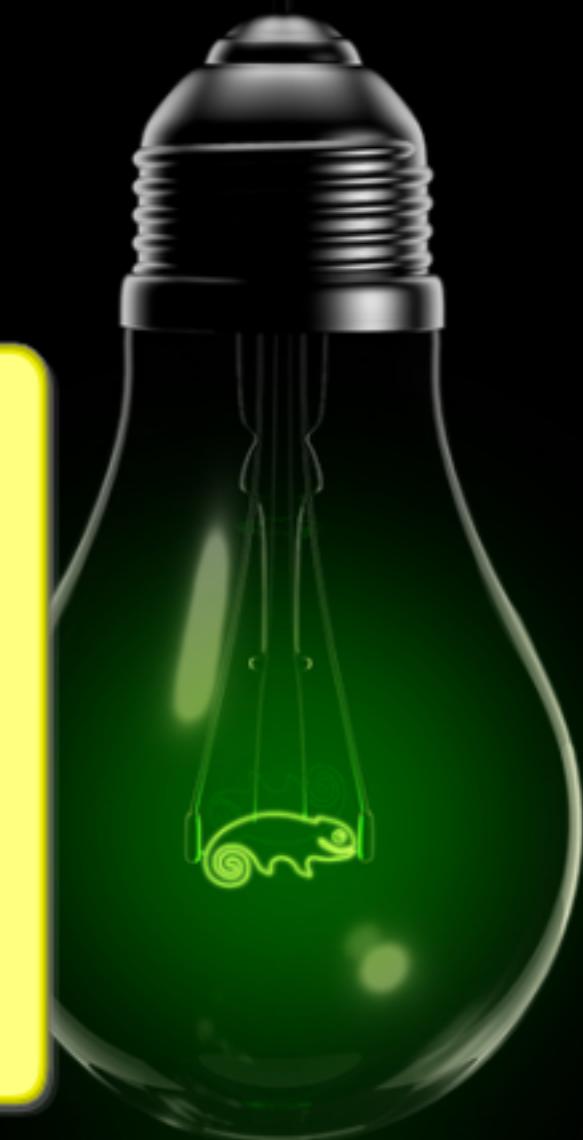


Home



Trash

The presentation logs into Linux.



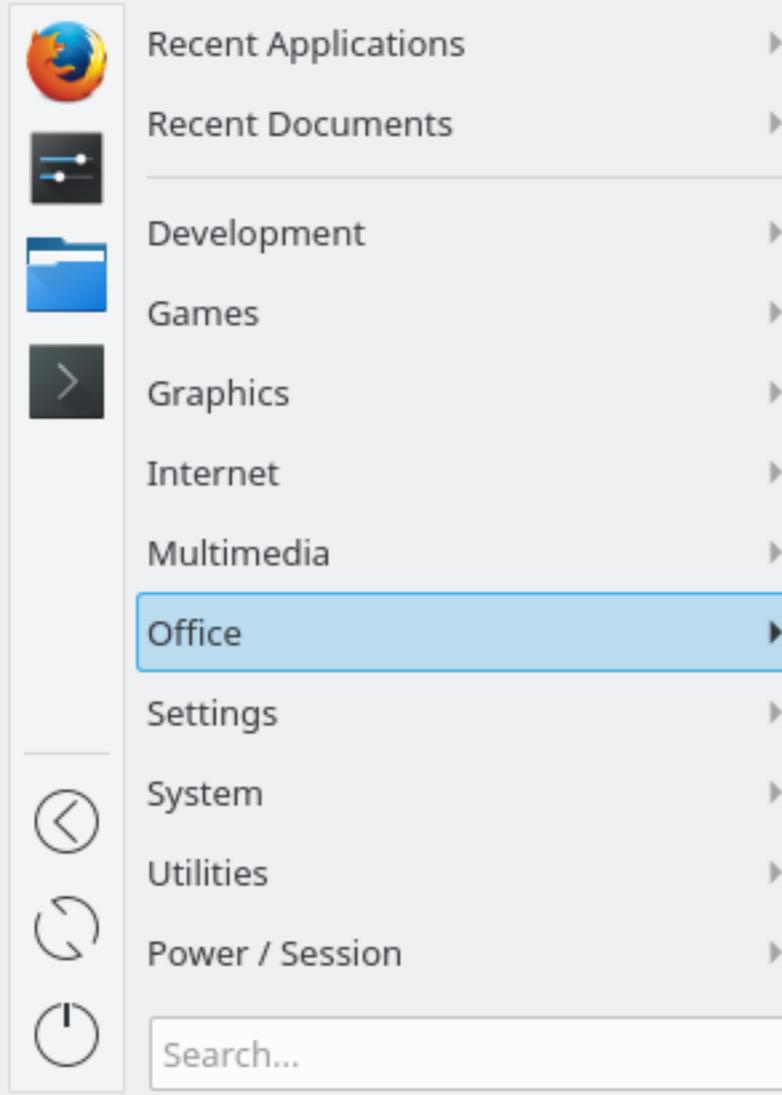
Player ▾



Home



Trash

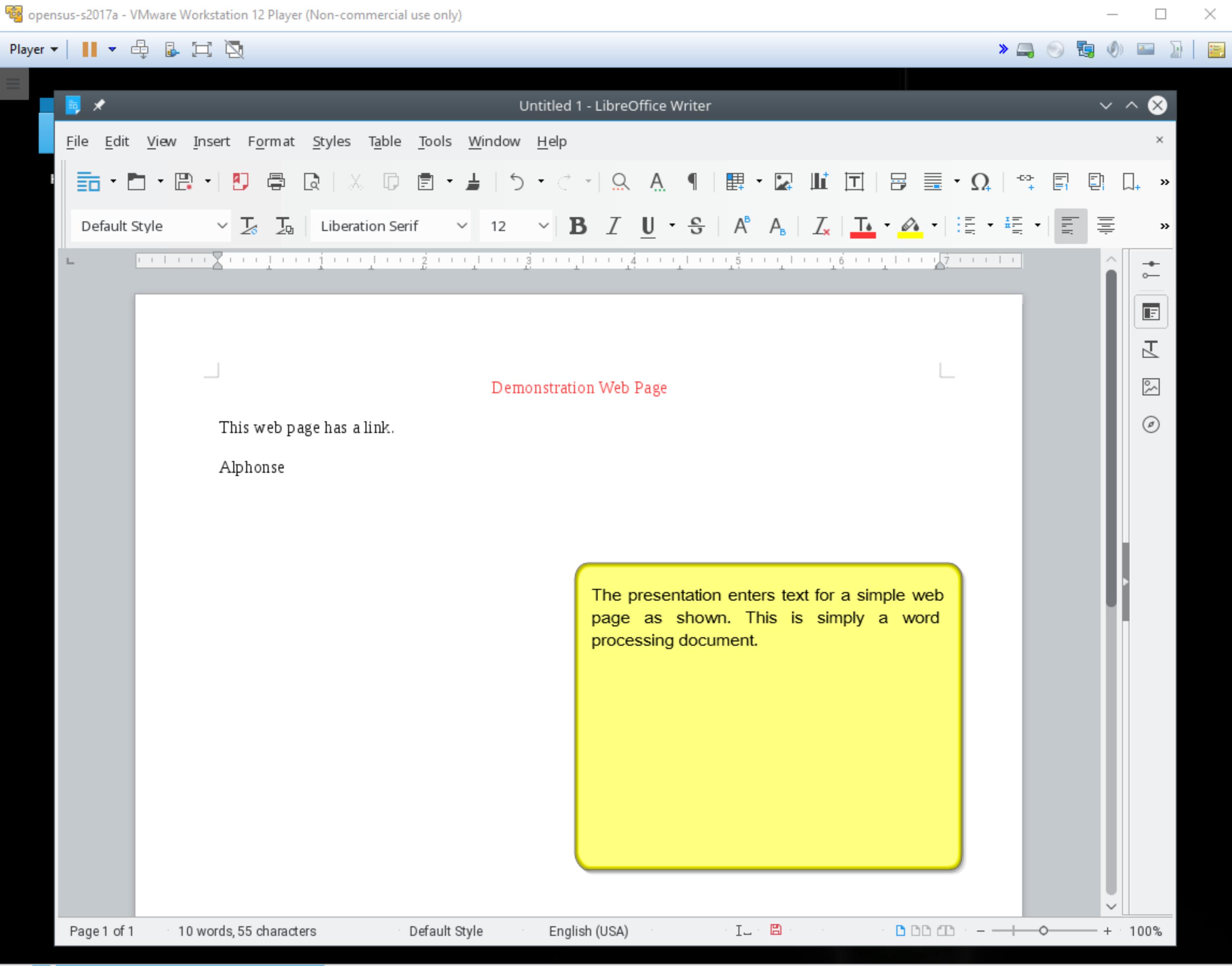


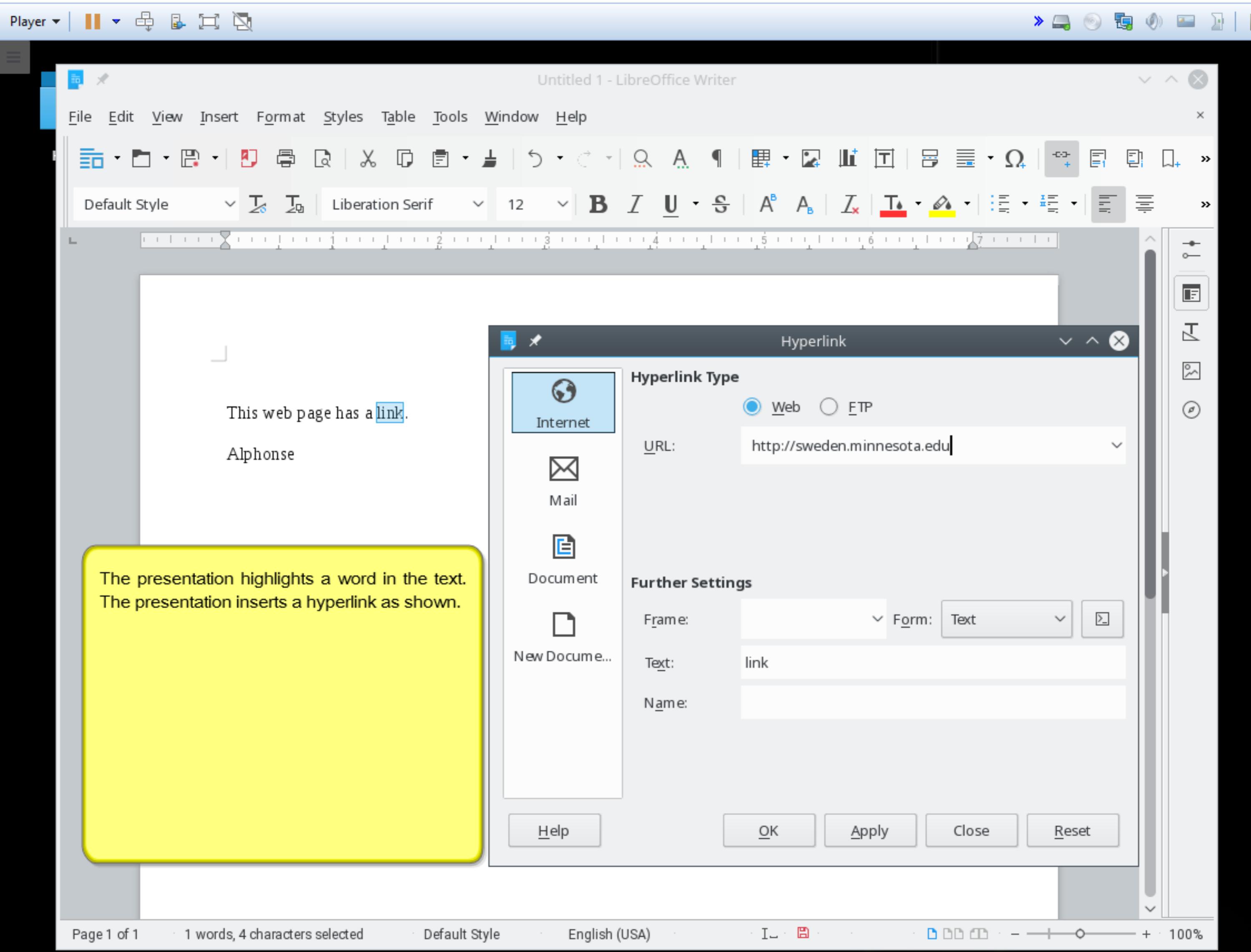
- Cloud Storage Manager
- Contact Print Theme Editor
- Contact Theme Editor
- KAddressBook
- KMail Header Theme Editor
- KMail
- Kontact
- KOrganizer
- LibreOffice Base
- LibreOffice Calc
- LibreOffice Draw
- LibreOffice Impress
- LibreOffice
- LibreOffice Writer
- Okular
- Sieve Editor
- Wordview Microsoft doc Viewer



The presentation launches "LibreOffice Writer".







The presentation saves the document as an "html" document as shown.

Naming the document "index.html" will make the process easier.

This web page has been bookmarked.  
Alphonse

Places

- Home
- Network
- Root
- Trash
- 28.0 Gi...
- 10.0 Gi...

Save - LibreOffice

Name: index

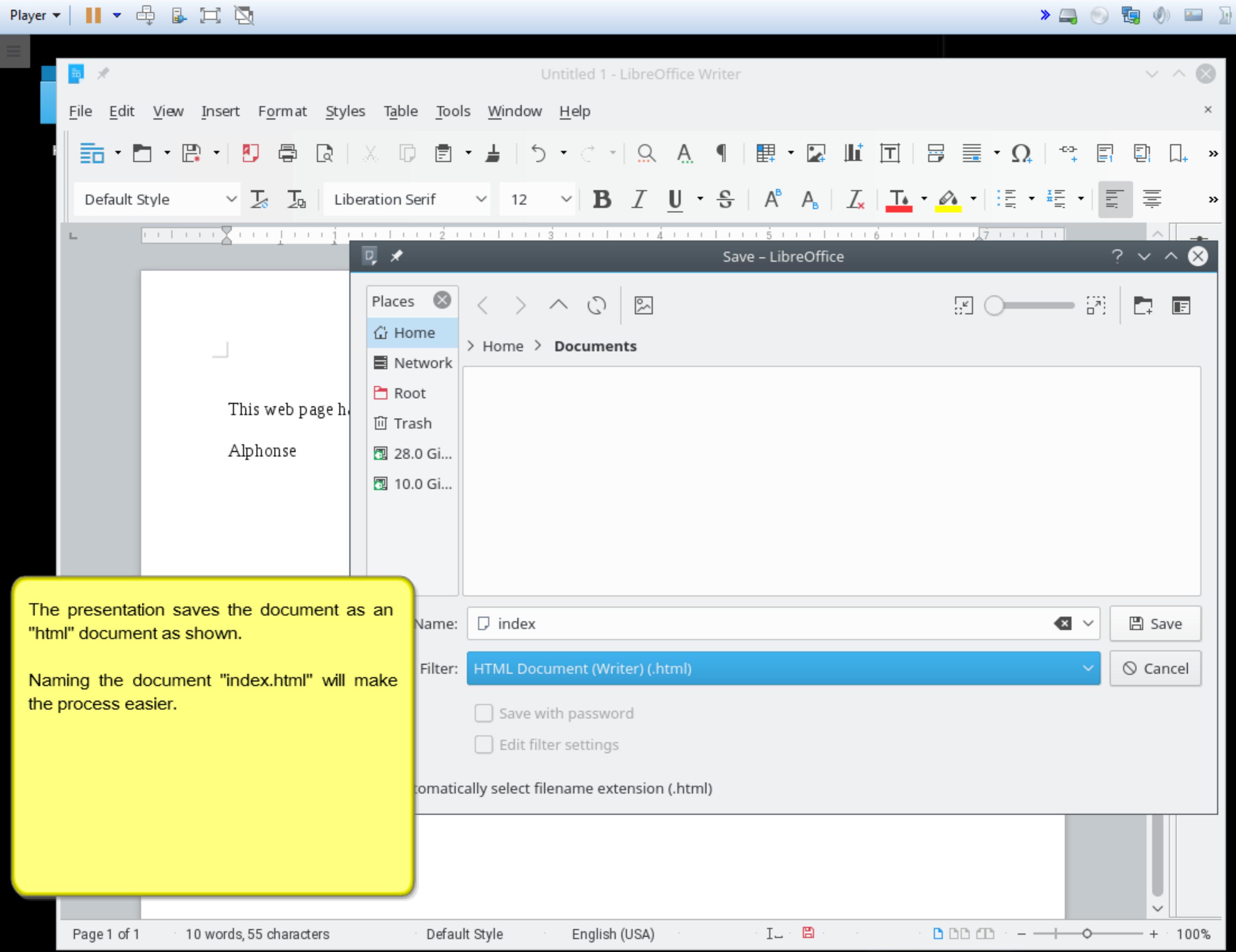
Filter: HTML Document (Writer) (.html)

Save with password

Edit filter settings

Automatically select filename extension (.html)

Page 1 of 1 · 10 words, 55 characters · Default Style · English (USA) · I · 100%



Player |

Untitled 1 - LibreOffice Writer

File Edit View Insert Format Styles Table Tools Window Help

Default Style | Liberation Serif | 12 | B I U S A<sup>B</sup> A<sub>B</sub> | I<sub>x</sub> T<sub>+</sub> |

This web page  
Alphonse

Demonstration Web Page

Confirm File Format

**i This document may contain formatting or content that cannot be saved in the currently selected file format "HTML Document (Writer)".**

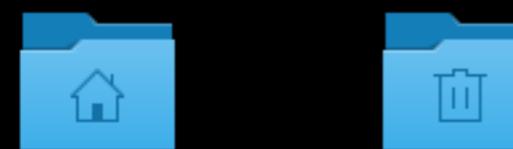
Use the default ODF file format to be sure that the document is saved correctly.

Ask when not saving in ODF or default format

**Use HTML Document (Writer) Format** Use ODF Format

The presentation selects "Use HTML Document (Writer) Format" to continue.

Page 1 English (USA) 100%



Home      Trash

YaST Control Center @ opensuse-s2017

### Network Services

Search

- FTP Server
- HTTP Server  
Configure an Apache 2 server
- Hostnames
- LDAP and Kerberos Client
- Mail Server
- NFS Server
- NTP Configuration
- Proxy
- Samba Server
- VPN Gateway and Clients
- iSCSI Initiator

**Security and Users**

The presentation opens "YaST" in OpenSUSE. Under "Network Services", the presentation selects "HTTP Server".

Player |

Home Trash

**YaST2 - HTTP Server**

HTTP Server Configuration

Listen Ports and Addresses Server Modules Main Host Hosts

HTTP Service

Disabled  Enabled

Listen on Ports:

Network Address	Port
All Addresses	80

Add Edit Delete

Firewall Settings for SuSEfirewall2

Open Port in Firewall

Firewall port is open on all interfaces

Log Files

Help Abort Back Finish

The presentation configures the HTTP Server Listen Ports and Addresses as shown.

Should students be using the wizard, it is easier to select "automatic start at boot".



Home

Trash

YaST2 - HTTP Server

### HTTP Server Configuration

Listen Ports and Addresses    Server Modules    Main Host    Hosts

Status	Description
Enabled	Provides for content negotiation
Disabled	Provides support for Perl dynamically generated pages
Disabled	Provides support for PHP5 dynamically generated pages
Disabled	HTTP/1.1 proxy/gateway server
Disabled	AJP support module for mod_proxy
Disabled	mod_proxy extension for CONNECT request handling
Disabled	FTP support module for mod_proxy
Disabled	HTTP support module for mod_proxy
Disabled	Provides support for Python dynamically generated pages
Enabled	unknown
Disabled	Provides a rule-based rewriting engine to rewrite requests
Enabled	Allows the setting of environment variables based on conditions
Enabled	unknown
Disabled	Attempts to correct mistaken URLs that users might have entered

The presentation is not using Perl, Python or PHP in this demonstration. These services are not enabled.

< >

**Toggle Status**    **Add Module**

**Help**    **Abort**    **Back**    **Finish**



Home

Trash

YaST2 - HTTP Server

### HTTP Server Configuration

Main Host

Option	Value
Document Root	"/srv/www/htdocs"
Directory	"/srv/www/htdocs"...
Alias	/icons/ "/usr/share/apache2/icons/"
Directory	"/usr/share/apache2/icons"...
ScriptAlias	/cgi-bin/ "/srv/www/cgi-bin/"
Directory	"/srv/www/cgi-bin"...
mod_userdir.c	
IncludeOptional	/etc/apache2/conf.d/*.conf
IncludeOptional	/etc/apache2/conf.d/apache2-manual...
Server Name	opensuse-s2017
Server Administrator E-Mail	root@opensuse-s2017

Add Edit Delete

Help Abort Back Finish

The presentation documents the "Document Root". This is the location of html files for the web server.



Home

Trash

YaST2 - HTTP Server

### HTTP Server Configuration

The presentation does not add any hosts.

Ch.	Option	Value

Add Edit Delete Set as Default

Help Abort Back Finish

YaST2 - HTTP Server YaST Control Center @ opensuse... 3:47 PM

Player ▾



Mozilla Firefox

http://localhost/ +

localhost | Search | ⌂

# It works!

The presentation opens a web browser. The presentation uses the address "http://localhost" or "http://127.0.0.1" to test the web server. This message shows the web server is successfully running.



Home

Trash

htdocs : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd /srv/www/htdocs/  
preuss@opensuse-s2017:/srv/www/htdocs> ls  
favicon.ico gif index.html info2html.css robots.txt  
preuss@opensuse-s2017:/srv/www/htdocs> █
```

The presentation opens a terminal window as shown. The presentation goes to the "Document Root" directory.



htdocs : bash



Mozilla Firefox

htdocs : bash — Konsole

YaST Control Center @ opensuse...

hp 3:50 PM



Home

Trash

htdocs : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd /srv/www/htdocs/  
preuss@opensuse-s2017:/srv/www/htdocs> ls  
favicon.ico gif index.html info2html.css robots.txt  
preuss@opensuse-s2017:/srv/www/htdocs> su  
Password:  
openSUSE-s2017:/srv/www/htdocs # cp index.html index.html.original  
openSUSE-s2017:/srv/www/htdocs #
```

The presentation needs root privilege to continue. The presentation creates a backup "index.html" file as shown.



htdocs : bash

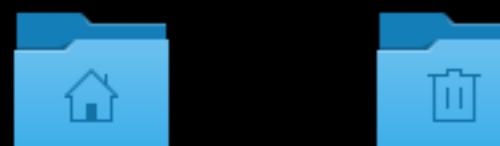


Mozilla Firefox

htdocs : bash — Konsole

YaST Control Center @ opensuse...

hp 3:50 PM



Home      Trash

htdocs : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd /srv/www/htdocs/  
preuss@opensuse-s2017:/srv/www/htdocs> ls  
favicon.ico gif index.html info2html.css robots.txt  
preuss@opensuse-s2017:/srv/www/htdocs> su  
Password:  
openSUSE-s2017:/srv/www/htdocs # cp index.html index.html.original  
openSUSE-s2017:/srv/www/htdocs # cp /home/preuss/Documents/index.html /srv/www/htdocs/  
openSUSE-s2017:/srv/www/htdocs # █
```

The presentation copies the "index.html" file created by the presentation. This file must be in the "Document Root" directory.



htdocs : bash



Mozilla Firefox

htdocs : bash — Konsole

YaST Control Center @ opensuse...

hp 3:51 PM

Player



Home



Trash

htdocs : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd /srv/www/htdocs/
preuss@opensuse-s2017:/srv/www/htdocs> ls
favicon.ico gif index.html info2html.css robots.txt
preuss@opensuse-s2017:/srv/www/htdocs> su
Password:
openuse-s2017:/srv/www/htdocs # cp index.html index.html.original
openuse-s2017:/srv/www/htdocs # cp /home/preuss/Documents/index.html /srv/www/htdocs/
openuse-s2017:/srv/www/htdocs # exit
exit
preuss@opensuse-s2017:/srv/www/htdocs> █
```



htdocs : bash

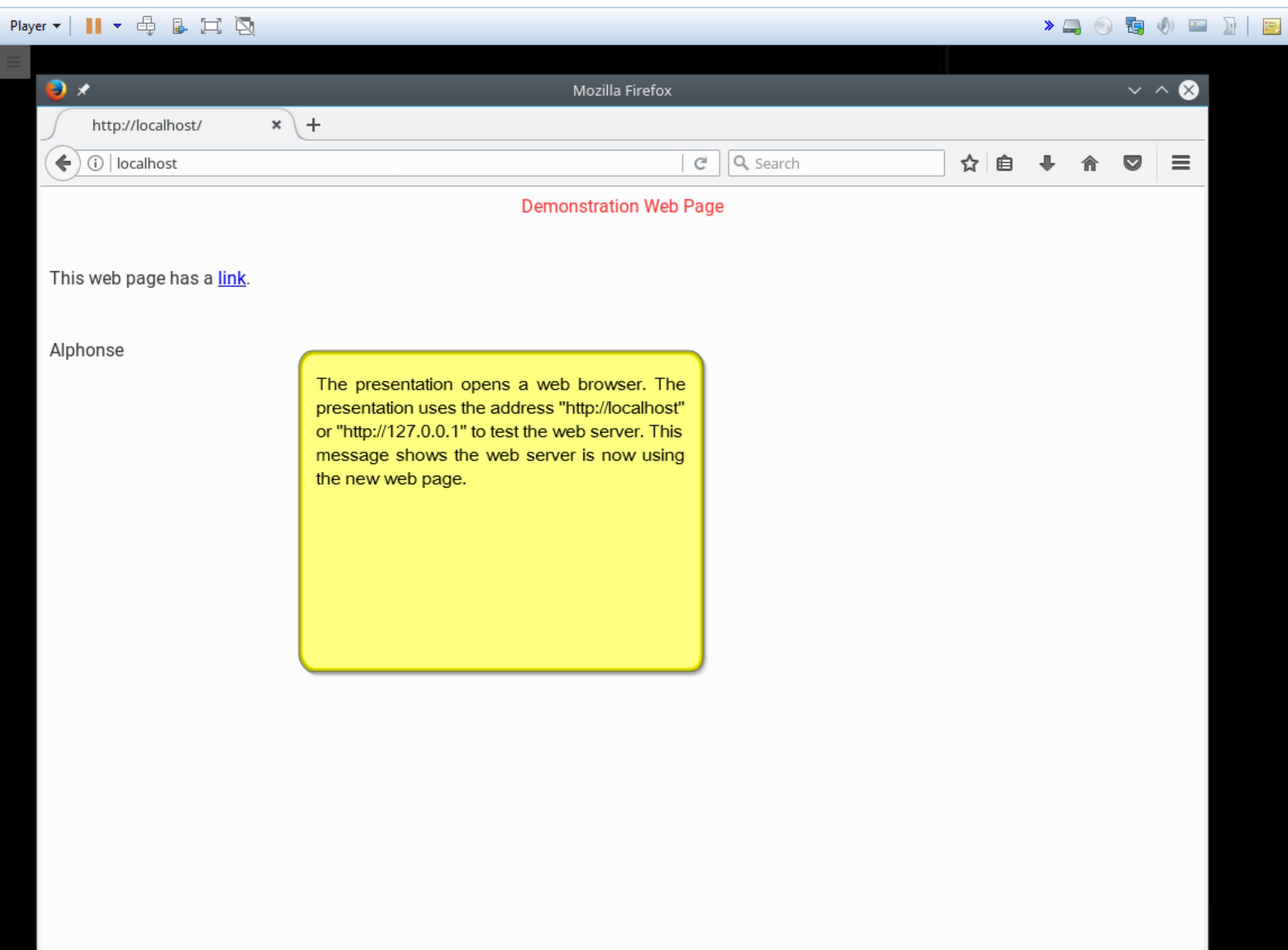


Mozilla Firefox

htdocs : bash — Konsole

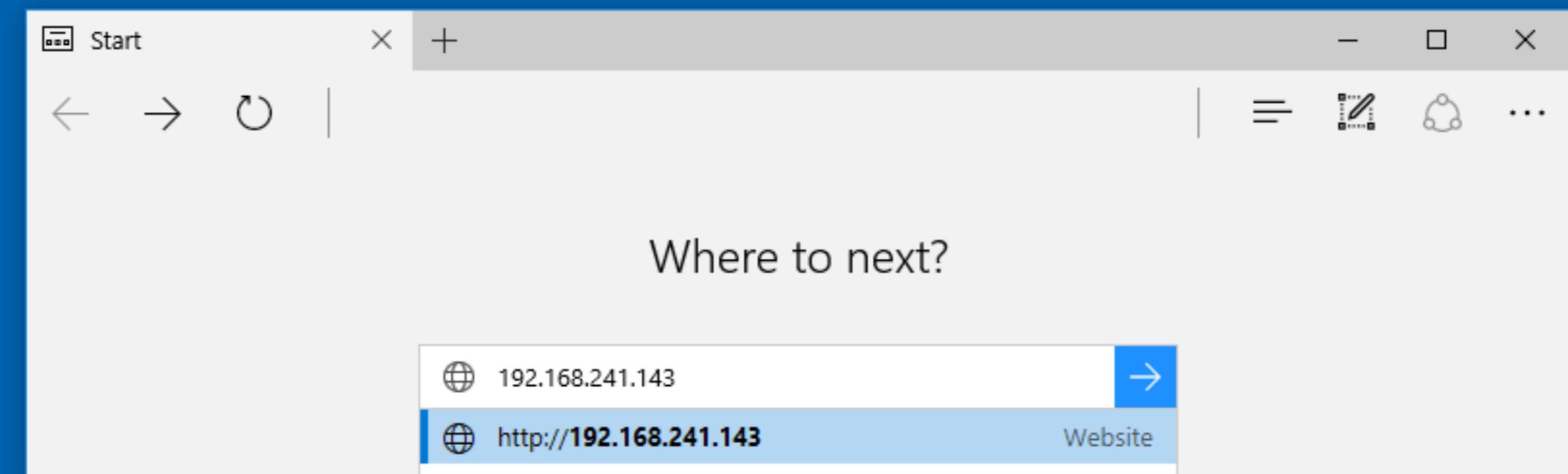
YaST Control Center @ opensuse...

hp 3:51 PM





Recycle Bin



The presentation uses a Windows 10 virtual machine on the same network to connect. The presentation opens a web browser. The presentation enters the IP address of the OpenSUSE system.



Search Windows



Player



Recycle Bin

192.168.241.143 X +

← → ⌂ | 192.168.241.143

Demonstration Web Page

This web page has a [link](#).

Alphonse

The presentation sees success. The Windows 10 successfully obtained the web page from the OpenSUSE server.



Search Windows

