



Mawlana Bhashani Science And Technology University

Lab-Report

Lab Report No: 05

Lab Report Name:

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1. Objectives:

The Daytime Protocol is a service in the Internet Protocol Suite, defined in 1983 in RFC 867. It is intended for testing and measurement purposes in computer networks.

A host may connect to a server that supports the Daytime Protocol on either Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) port 13. The server returns an ASCII character string of the current date and time in an unspecified forma

2. Theory:

This RFC specifies a standard for the ARPA Internet community. Hosts on the ARPA Internet that choose to implement a Daytime Protocol are expected to adopt and implement this standard.

A useful debugging and measurement tool is a daytime service. A daytime service simply sends a the current date and time as a character string without regard to the input.

TCP Based Daytime Service

One daytime service is defined as a connection based application on

TCP. A server listens for TCP connections on TCP port 13. Once a

connection is established the current date and time is sent out the

connection as a ascii character string (and any data received is

thrown away). The service closes the connection after sending the quote.

UDP Based Daytime Service

Another daytime service is defined as a datagram based

application on UDP. A server listens for UDP datagrams on UDP port

13. When a datagram is received, an answering datagram is sent

containing the current date and time as a ASCII character string (the data in the received datagram is ignored).

Daytime Syntax

There is no specific syntax for the daytime. It is recommended that

it be limited to the ASCII printing characters, space, carriage

return, and line feed. The daytime should be just one line.

One popular syntax is:

Weekday, Month Day,
Year Time-Zone

Example:

Tuesday, February
22, 1982 17:37:43-PST

3. Methodology:

Requirements:

1.A Desktop machine with minimum 2GB of RAM.

2.The Java SE Development Kit (JDK) 8 is required to install NetBeans IDE (NetBeans 8.2 does not run on JDK9).

Install Java JDK 8 Linux Mint:

1.To install Java 8 JDK version, first add following webupd8team/java PPA to your system and update the repository package database as shown.

```
$ sudo add-apt-repository ppa:webupd8team/  
java  
$ sudo apt-get update
```

2.Once PPA has been added and updated,
now search for the packages with name
oracle-java8 and install it as shown.

```
$ apt-cache search oracle-java8
```

```
$ sudo apt-get install oracle-java8-  
installer
```

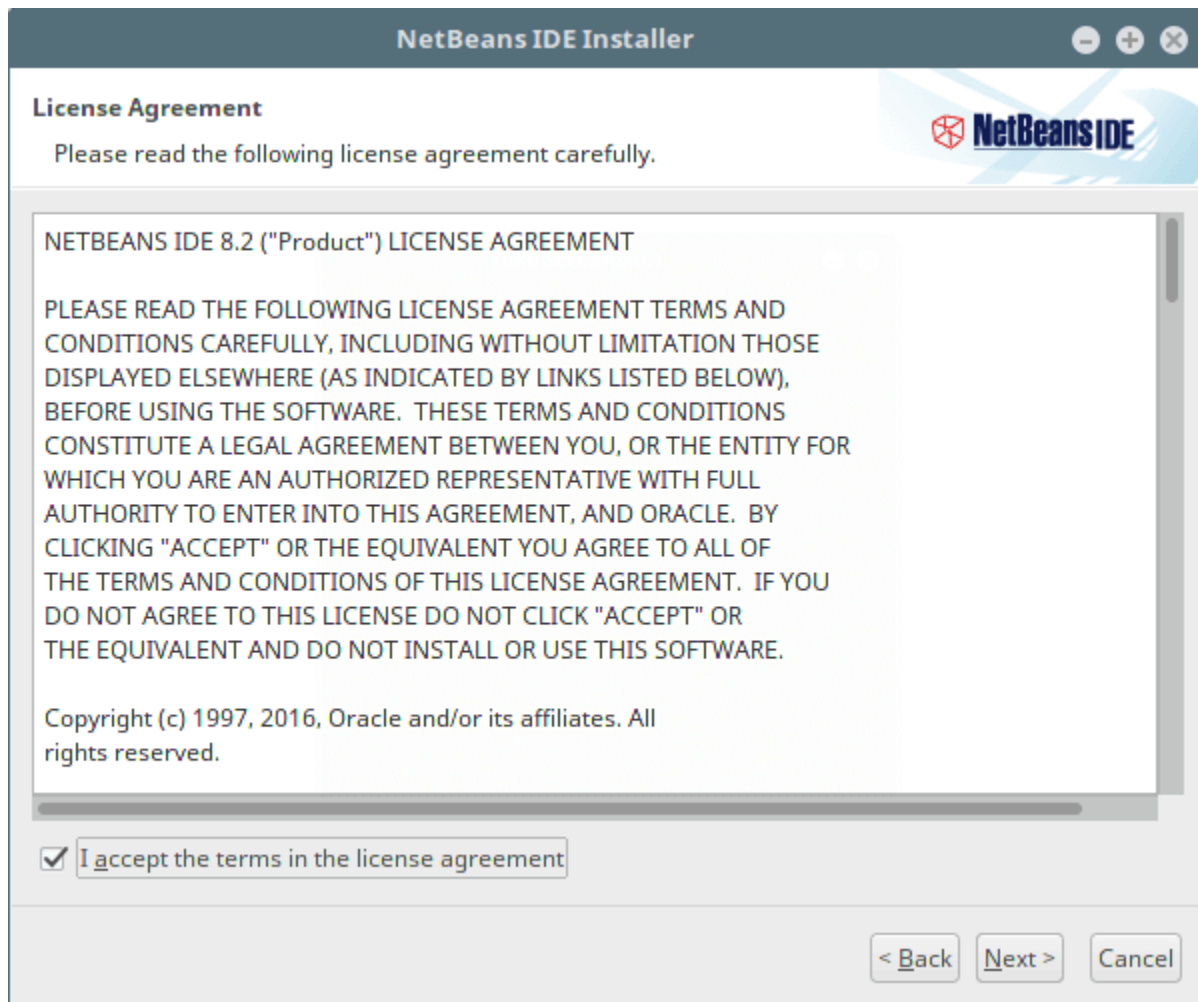
3.**\$ wget -c**

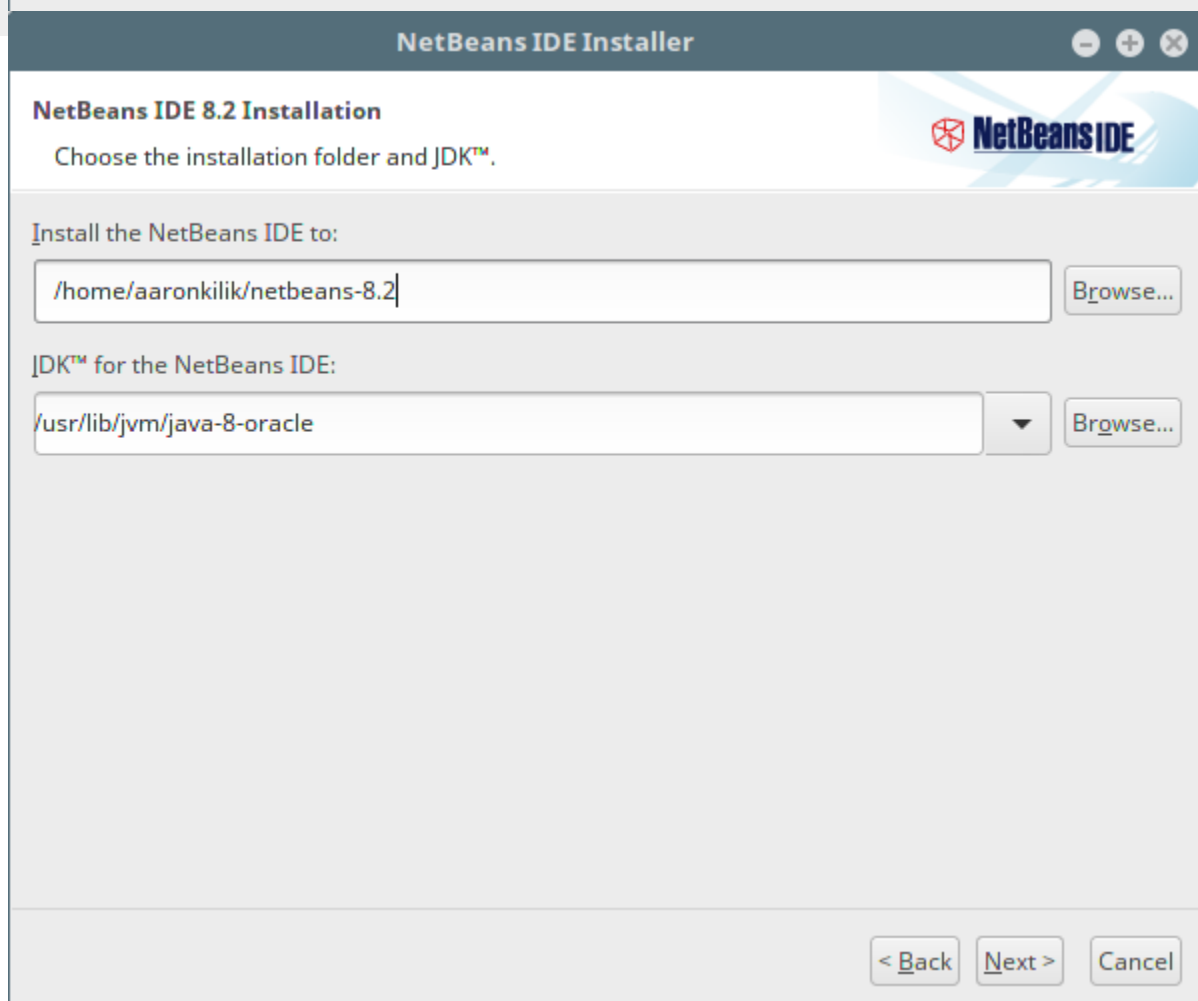
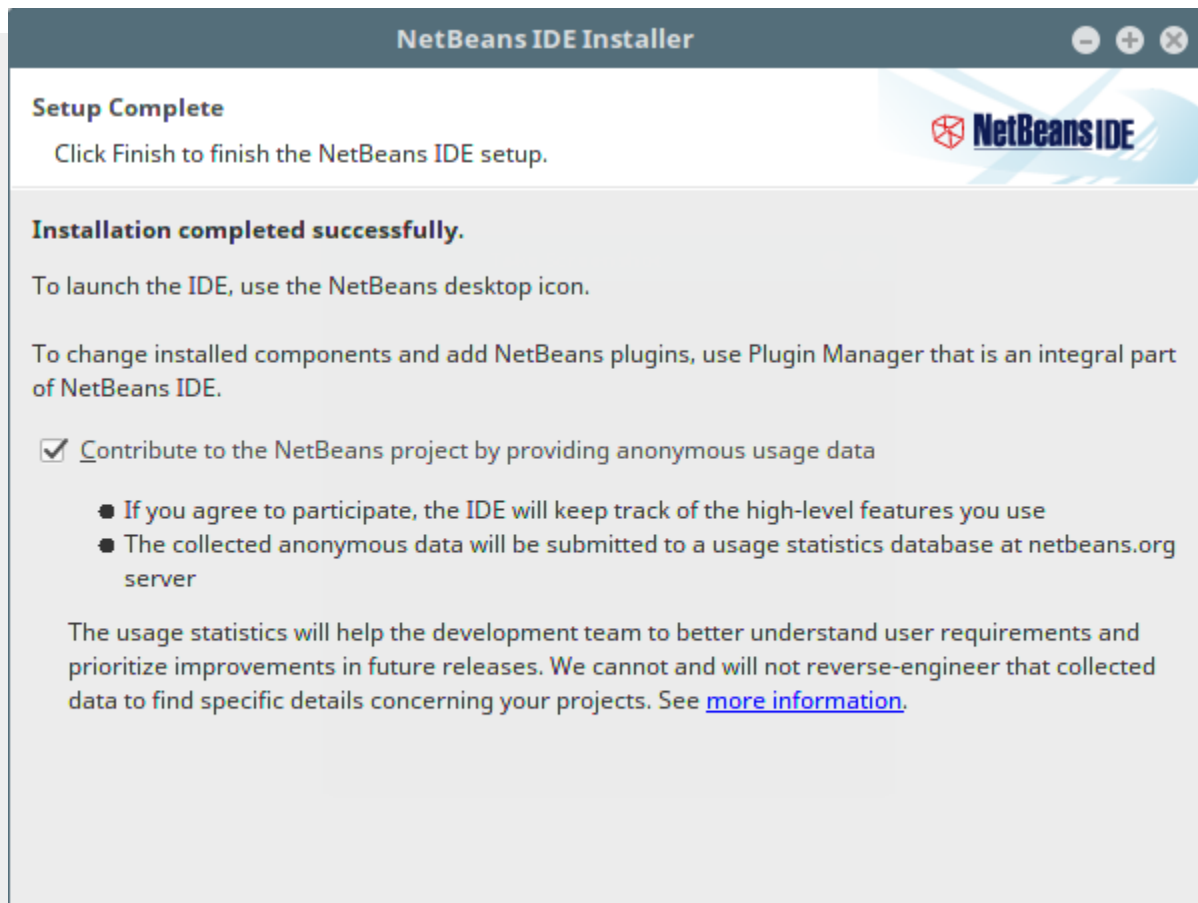
<http://download.netbeans.org/netbeans/8.2/final/bundles/netbeans-8.2-linux.sh>

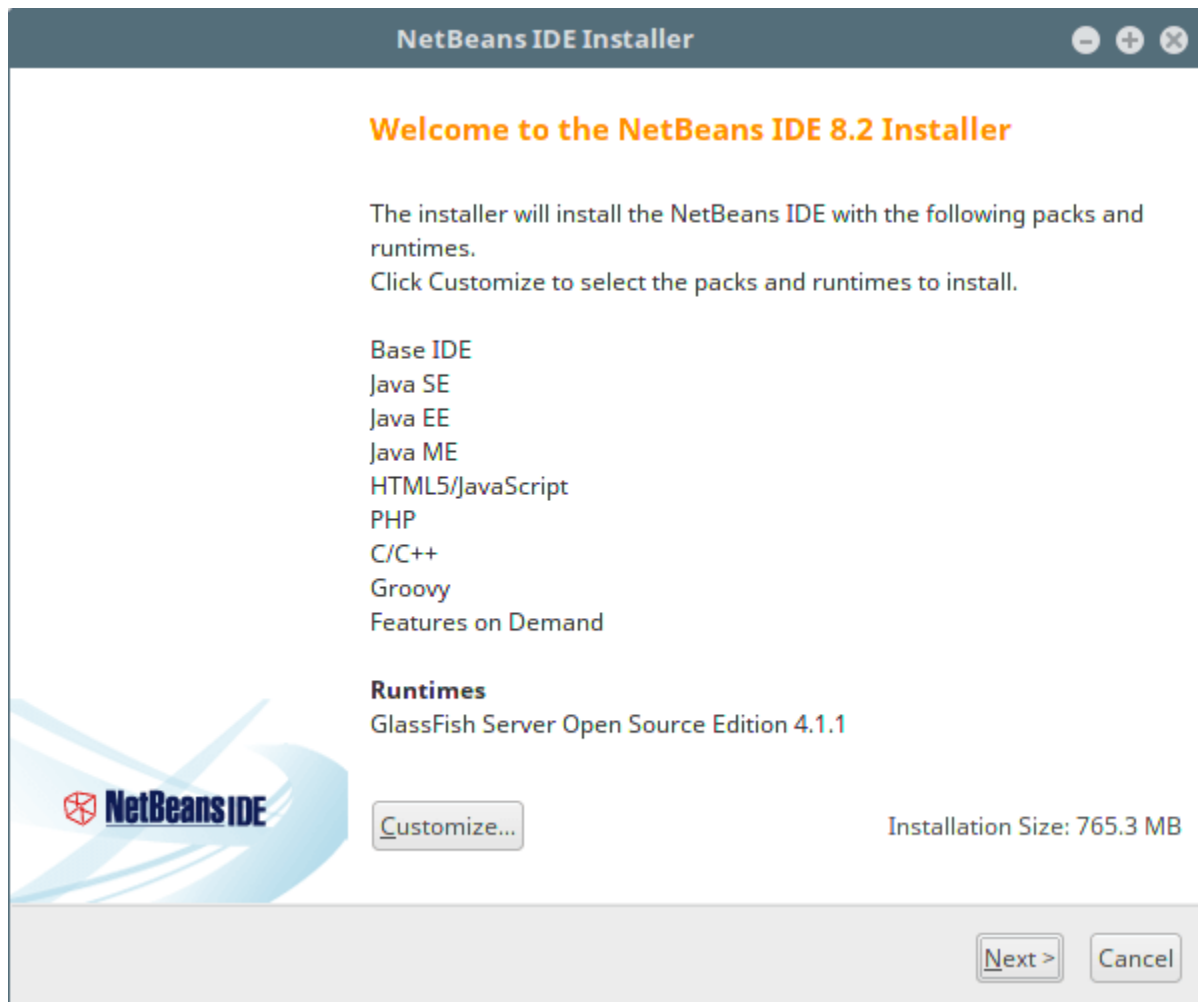
4.

```
$ chmod +x netbeans-8.2-linux.sh
```

5.\$./netbeans-8.2-linux.sh







4. Exercises

