**Objectives**

1. Research information about software for a specific operating system (OS) environment. You will be assigned one of the operating systems form the list below. You will also be provided with a list of topics to investigate.

2. Organize your rough research information into a list of topics, sub-topics and facts. This process will involve identifying sub-topics, rearranging your rough research notes, and selecting (or highlighting) interesting facts.

3. Report a summary of your research in the form of a “concept map”. Use the PowerPoint template provided as a starting point. The concept map should only include the best and most interesting information from your organized research notes.

4. Your concept map can be created using: Smart Ideas, Prezi, PowerPoint or other similar applications.

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**Step 1 – Organized Research**

Research information about your assigned operating system (OS) environment.

· Guide your research according to the suggested topic list below

· Feel free to copy-and-paste as long as you keep track of your bibliographic references.

· Do not be too picky or concerned about formatting as you will organize this information later in step 2

· Select things that look interesting and don’t forget to include graphics images as well

· Upload your rough research notes to your repository when you are done.

Topic A – Application Software

Provide a summary of the most important user application software targeted by this operating system and how it is similar to and different from standard PC software. Suggested sub-topics include:

· User (client) or network (server) applications

· Batch (run without user input) or interactive (user focused) processing

· Off-the-shelf (purchased) or custom developed applications

· Programming environment and languages supported

Solaris is a Unix enterprise OS. Solaris is known for its scalability. **It can handle a large workload and still keep operating smoothly across databases, systems and applications. Solaris** was developed by Sun Microsystems and has been owned by the Oracle Corporation since its take-over of Sun in early 2010.

**Solaris runs many of the Oracle based applications on its system**

**The Oracle Solaris Studio software provides a rich development environment for developers who are writing software.**

Included are C, C++, and Fortran compilers, the dbx debugger, and performance analysis tools.

Java applications can be purchased and used on this OS. Oracle applications and Java applications work with the OS.

* Desktop GUI Applications: Java provides GUI development through various means like Abstract Windowing Toolkit (AWT), Swing and **JavaFX**. ...
* Mobile Applications: ...
* Embedded Systems: ...
* Web Applications: ...
* **Web Servers** and Application Servers: ...
* Enterprise Applications: ...
* Scientific Applications:

Topic B – Hardware

Provide a summary of the hardware targeted by this operating system and how it is similar to and deferent from standard PC hardware. Suggested sub-topics include:

· Speed of processors / memory

· Capacity of memory / attached disks

· Is it designed for home / office / corporate data center / industrial use

· Is it designed for client / server / network use

* Soaris is fast and can handle many applications without slowing down the PC hardware
* Solaris focuses on scalability which helps with RAM and CPU speed

Solaris is made for the working field as it has a wide variety of applications which can be applied to work and is used by some employment places (ex. businesses)

The application is mostly used by those in the financial industry as many of the applications are applied to finances and numbers

The scalability of the OS helps with the RAM memory because it provides benefits and prevents slower performance on a PC

The OS can run many applications at once, which maintains a good performance and keeps the RAM memory stable

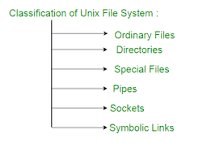
Topic C – User Interface

Provide a summary of the user interface and input devices targeted by this operating system and how it is similar to and deferent from a standard PC.

(disks, printers, etc.) and memory managed by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

· What types of disk drives and file systems does it support

Solaris OS supports the normal files and disks like an average PC



· What type of input devices does it support

The OS supports the same input devices as an average OS

* Keyboard.
* Mouse.
* Monitor.
* Modem.
* Scanner.
* Laser Printer.
* Ethernet. Disk.

· What type of output devices does it support

The OS supports the same output devices as an average OS

Topic D – Device Management

Provide a summary of the devices (disks, printers, etc.) and memory managed by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

· What types of disk drives and file systems does it support

· What type of input devices does it support

· What type of output devices does it support

Topic E – Security

Provide a summary of the security features provided by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

· What types of user accounts and user permissions does it support

The user who downloads the software has permission and has regulations

There is a TOS and Agreement which have to be followed by user

· How does it protect against conflicts / interference between legitimate application processes

There are security

Verifies the integrity of your system using file verification features • Reduces risk by granting only the privileges needed using User and Process Rights Management • Defends your system against attack through the Secure By Default networking profile, Solaris IP Filter Firewall, and TCP Wrappers. • Simplifies administration by using open, standards-based Solaris Cryptographic and Solaris Key Management frameworks for encryption • Controls access to data based on its sensitivity through Solaris Trusted Extensions labeled security technology • Evaluated against some of the most stringent independent testing profiles available

· How does it protect against malicious software

· How does it support software updates and security updates

Topic F – Network Connectivity

Provide a summary of the network connectivity provided by this operating system and how it is similar to and deferent from a standard PC. Suggested sub-topics include:

· Is the computer stand-alone or part of a larger network

Solaris OS is a part of Sun Mircrosystems which is a network

· What type of network and internet connections does it provide

· Does it provide other services such as backup, firewall, etc.