Operating System Diagnostics

Common OS Maintenance

ICTSAS308



Contents

Review Operating Systems

Examine why OS maintenance is important

Identify common OS diagnostic tools used during maintenance



Operating Systems - Review

- An Operating Systems is specialized software that manages a computer's hardware and resources to run compatible software programs.
- Common examples:
 - MS Windows, Apple
 OS, Linux, Apple iOS,
 Android, FreeBSD,
 Orbis OS (PS4)





Why is maintenance important?

Without regular maintenance, equipment runs a higher risk of failure

- An organisation is then unable to operate correctly or at optimal efficiency
- And that's a problem!
- Problems usually create financial pain for organisations
 - So there's motivation to minimise their effects



Common OS Maintenance

All devices have an Operating System requiring specialised maintenance

Desktop Computer:

- Updating the OS
- Scheduling Backups
- Maintaining Filesystem
- Managing User Accounts



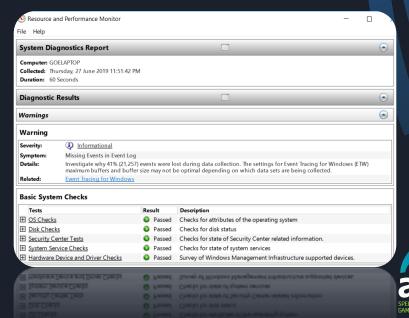


Common OS Maintenance

 Windows 10 includes a System Diagnostic Tool as part of the Performance & Monitoring tool

Report includes:

- Disk checks
- Security checks
- Hardware & Devices checks
- Services
- Network connections & data
- And more...

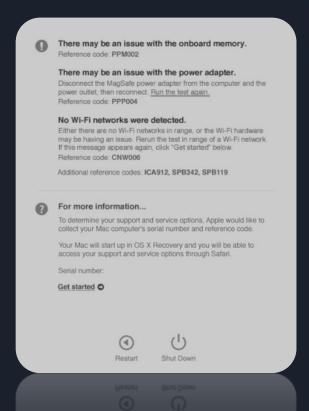




Common OS diagnostic/maintenance tools

- Mac OSX includes the Apple Diagnostic Tool which can be started during boot up
- The test takes 2 or 3 minutes.

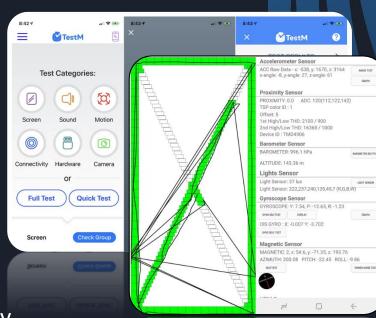
 If any issues are found, Apple Diagnostics suggests solutions and provides reference codes.





Mobile Device Maintenance

- Mobile devices include:
 - Phones, tablets, smartwatches
 - And other devices... Can you think of any?
- Example maintenance:
 - Updating the OS
 - Clearing Storage cache
 - Removing unused apps
 - Using In-built Diagnostic tools or third-party apps to check functionality of camera, screen, connectivity, sound, etc.



Summary

Reviewed Operating Systems

Examined why OS maintenance is important

Identified some common OS diagnostic tools



References

- PCMag Australia. 2019. Run Diagnostics on your Phone. [ONLINE] Available at: https://au.pcmag.com/gallery/61694/how-to-run-diagnostics-on-your-iphone-or-android-phone. [Accessed 28 June 2019].
- Apple Support. 2019. Apple Diagnostic Tool. [ONLINE] Available at: https://support.apple.com/en-au/HT202731. [Accessed 27 June 2019].

