BYOD AND REMOTE WORKING SECURITY

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Abstract

Bring your own device (BYOD) has become a trend in the present day due to the pandemic

situations as people are working from home. Most organizations allow employees the

freedom to bring their personal mobile devices to access corporate networks in Sri Lanka.

In addition, most private and government organizations are increasingly allowing their

employees the flexibility to utilize mobile devices for work-related activities. However, as

they do so, the risk of corporate data being exposed to threats increases. Hence, the study

considered developing a security framework for mitigating BYOD security challenges.

This research will produce a general framework, which any organization can customize to

implement an effective BYOD process to ensure the business goals are met with a

reasonable number of risks. This research only explores the BYOD security problems faced

by organizations in Sri Lanka.

The aim of this research was to find out security threats, challenges and attacks brought

about by BYOD adoption in organizations. The threats, challenges, attacks and security

practices were found out using a questionnaire that was sent to BYOD users of 100

randomly sampled organizations. Other existing frameworks were reviewed in order to

find out how they tackled threats and challenges associated with BYOD.

Based on the findings of the study, the developed security framework will help

organizations in Sri Lanka to mitigate against BYOD security threats. Furthermore, this

security framework will contribute towards the generation of new knowledge in the field

of information security as far as BYODs are concerned. The study recommends ongoing

training for employees as it relates to mitigation of security threats posed by mobile

devices.

Keywords: BYOD, Remote working, Data loss, Cyber threats

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ii