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## Cyber Security Maturity Model and Maqasid al-Shari'ah

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### Abstract

Knowing how vulnerable an organisation or a state towards cyberattacks, is referred to as Cyber security Index or Maturity Level. Such an index is important to evaluate the organisation's level of vulnerability to cyber threats. Various cyber security models are initiated and applied across the globe as tools towards measuring the mentioned index. These models provide indicators as to how ready an organisation or a country react to attacks and what are the steps to be taken to alleviate the situation. On the other hand, the Maqasid Al-Shari'ah or the higher objectives of Shari'ah generally seeks to preserve the five essentials in human life: faith (deen), life (nafs), intellect ('aql), progeny (nasl) and wealth (mal). This work is proposing the use of Maqasid Al-Shari'ah to identify and prioritizes critical incidents that need to be addressed to ensure the continuity of civil society from the Islamic perspective. This research will also deliver a prototype tool that captures users' input on an organisation's profile and displays the corresponding measured cyber security maturity level of the organisation.

### Keywords


**Author Keywords:** cyber security maturity model; cyber security index; Maqasid al Shariah; assets; threats; risk management

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1. Title: [not available] Times Cited: 1  
By: [Anonymous].  
Cyber Power Index: Findings and Methodology Published: 2011  
Retrieved from  
URL: <http://www.boozallen.com/insights/2012/01/cyber-power-index>
2. Title: [not available] Times Cited: 1  
By: [Anonymous].  
Cybersecurity Capacity Maturity Model for Nations (CMM) Revised Edition Published: 2017  
Retrieved from  
URL: <https://www.sbs.ox.ac.uk/cybersecurity-capacity/content/cmm-revised-edition>
3. Title: [not available] Times Cited: 1  
By: [Anonymous].  
Cybersecurity Index of Indices Published: 2015  
Retrieved from  
URL: <http://www.itu.int/en/ITU-D/Cybersecurity/Pages/GCI-2016.aspx>
4. Title: [not available] Times Cited: 1  
By: [Anonymous].  
Daruriyyat, Hajjiyyat and Tahsiniyyat Published: 2015  
Retrieved 17 May 2017, from  
Publisher: Ilmuislamuallaf.blogspot.my  
URL: <http://ilmuislamuallaf.blogspot.my/2015/03/daruriyyat-hajjiyyat-and-tahsiniyyat.html>
5. Title: [not available] Times Cited: 1  
By: [Anonymous].  
EU Cybersecurity Dashboard A Path to a Secure European Cyberspace Published: 2015  
Retrieved from  
URL: <http://cybersecurity.bsa.org/>
6. Title: [not available] Times Cited: 1  
By: Auda, J.  
MAQASIS AL-SHARIAH AN INTRODUCTORY GUIDE Published: 2008  
Publisher: IIIT
7. Title: [not available] Times Cited: 1  
By: Barlock, S; Buffomante, T; Rica, F.  
Cyber security: it's not just about technology-The five most common mistakes Published: 2014  
Retrieved from  
Publisher: KPMG, U.S.A  
URL: <https://assets.kpmg.com/content/dam/kpmg/pdf/2014/05/cyber-security-not-just-technology.pdf>
8. **Victims of the WannaCry ransomware attacks have stopped paying up** Times Cited: 1  
By: Collins, K.  
Quartz Published: 2017  
Retrieved 18 December 2017, from  
URL: <https://qz.com/986094/wannacry-ransomware-attacks-victims-have-stopped-paying-the-ransom/>