

1 网络安全

1.1 现状: 2点

1.2 防护措施: 6点

1.3 未来

1.4 目标: 6点

1.1 cyber security level

① industry 4.0, 5.0

② digital transformation

1.2 protection measure

① cryptography

② firewall

③ software updates

④ strong password

⑤ 2FA : two factor authentication

⑥ training for employees (don't open unknow link and download unknow file) and be cautious

⑦ regular backup

when clicking on links or downloading attachments from unknown sources

1.3 Future

- ① Industry 4/5 bring ^{higher} efficiency and lower cost
- ② But it ~~bring~~ ^{increases} high risks
- ③ ~~we meet~~ ^{It means} opportunities and challenges

1.4 Goal : CIA . AND

- ① confidentiality: provide security in case ^{access or sharing data} unauthorities visit it
- ② Integrity : protect data ^{must not be} changed by ^{unauthorized people}
- ③ Availability : easy get authorized parties consistently readily
- ④ Authentication : know who send ^{communicating entity is the one claimed.}
- ⑤ No-repudiation : can't deny ^{Protects against deny}
- ⑥ privacy : proper use personal information according to user consent & legal standards