SECURING REMOTE USER SESSIONS

PHYSICAL SECURITY TOKENS

Office of the
Vermont
Secretary of State

VERMONT SECRETARY OF STATE

JON WELCH

IT DIRECTOR

TIMELINE (SECURITY MEASURES)

Office of the
Vermont
Secretary of State

- OCTOBER 2016 – DEPLOYED WEB APPLICATION FIREWALLS
- JULY 2018 – VERSION 1: IMPLEMENTED MFA FEATURE
- SUMMER 2020 – VERSION 2: ENHANCING MFA SECURITY

WHY IMPLEMENT THIS CHANGE?

▶ E-MAIL ACCOUNTS CAN EASILY BE COMPROMISED

▶ SMS MESSAGES CAN BE INTERCEPTED

▶ PHYSICAL TOKENS HAVE UNIQUE IDENTIFIERS

Original connection

New connection

Man in the middle, Phisher,
or annonymous proxy
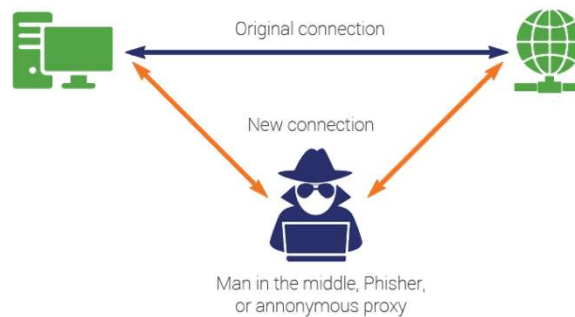
EASE OF DEPLOYMENT & MANAGEMENT

Office of the Vermont Secretary of State

- ▶ CONFIGURE ELECTION APPLICATION
- ▶ DISTRIBUTE PHYSICAL TOKENS
- ▶ ENROLL USERS
- ▶ BACKUP PLAN
- ▶ REVOKE USER/KEY

POTENTIAL CHALLENGES

▶ DELIVERY OF PHYSICAL TOKENS

▶ DIFFERENT USB VERSIONS

▶ MISPLACED/LOST PHYSICAL TOKENS

Office of the
Vermont
Secretary of State

QUESTIONS

Office of the
Vermont
Secretary of State