#### Northern Burlington County Regional School District

### Breach Story

Richard Kaz, Business Administrator Steve Lee, Director of Technology

- Burlington County
- 7-12 Regional School District
- Chesterfield, Mansfield, North Hanover, Springfield, and JBMDL
- 2250 Students
- 2 Schools
- Support all four constituent districts
- Three of the constituent districts rely on NB for internet connection

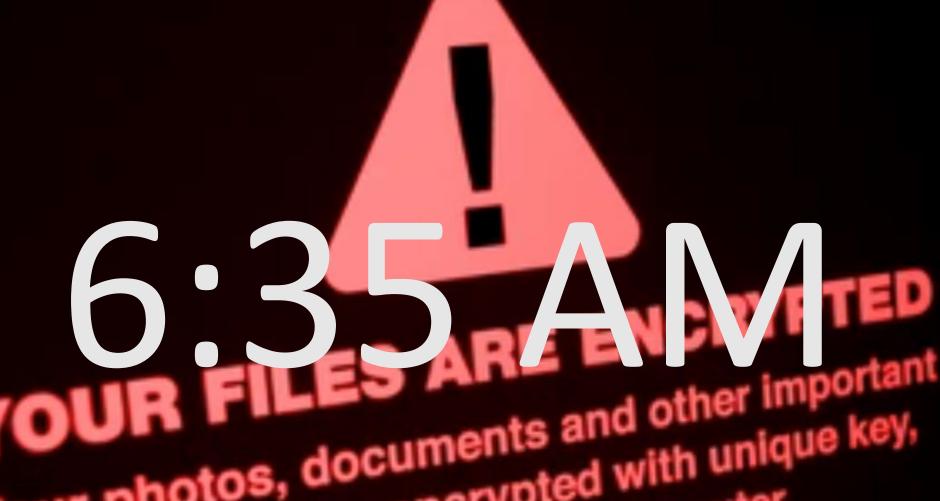


The Day after Memorial Day Weekend
In Person Instruction



Report that the transportation routing application is not functioning

## 6:35 AIV 001 00010101 VPN into the application server from home to investigate



Found a ransom note left on the server



## 8:00AIVI

Business administrator notified insurance company

## 8:00 AIM 01001001 01010010 100010101 Director of technology arrive at the district

## 8.00 41

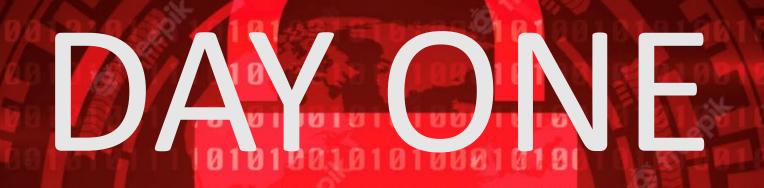
Technology department continues to assess the damage

## 10:00 AIM

Changed all domain admin account passwords Isolated unimpacted servers from the network



District's first meeting with the breach coach and the forensics/remediation firm



Technology department spent most of the day and well into the night to deploy forensics/remediation tools

## Impacted Services

- Bus Routing Application Server
- One Domain Controller
- One File Server

## Forensic and Remediation Processes

- Forensics of all devices
- Monitoring of all devices
- Negotiation with the threat actor
- Monitoring the dark web for exfiltrated data



### Forensic Result

Personally Identifiable
Information (PII) was included in
the data theft

## Restoration Process 01010100111010100001 RackUD

- Local and remote backups were examined and verified to be uncontaminated
- The latest backups were restored
  - All impacted servers were back online within a week





### Notifications

- Notification to the staff of the incident
- Notified PII data breach and offered credit monitoring

Data Protection CYBER PROTECTION

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Cyber Security

### IT Steps Taken

- Continued with Managed Detection and response (MDR) service
- Password Policy Mandatory change two times a year
- Spear phishing campaigh
- More restricted DNS Filtering

### IT Steps Taken

- Multifactor Authentication
  - Email
  - Google
  - Student Information System (SIS)
  - Windows devices with access to the financial/Personnel application
  - All servers
  - Any IT applications that support MFA

#### IT Steps Taken

- Restricted domain admin accounts
- Further segment the network
- Geofence where supported.
- Updated patch management
- Encrypt portable devices
- Frequent cybersecurity awareness message to all staff

#### What we have learned??

- No organization too small
- Ask questions
- Communicate clearly
- Answer honestly
- Listen to experts
- Let the experts do their job

#### What we have learned??

- Know your risks
- Discuss your risks
- Have a good inventory
- Have an IRP (Incident Response Plan)
- Technology department is not a forensics or cyber security expert
- Have a good backup! Local and remote!

# What we have learned??

Be patient! It is a slow process!



#### THANK YOU!

Board of Education
Superintendent
Business Administrator
Technology Staff
Everyone involved for their patience!

