IT-SECURITY COMPLIANCE FOR HOME OFFICES

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AGENDA

- 1. Motivation
- 2. Method
- 3. Result
- 4. Conclusion
The ongoing COVID-19 pandemic increases the need to transfer employees into home offices.

The BSI Grundschutz, ISO 2700x, NIST 800-53 or ISIS12 do not focus on approaches to secure the IT-infrastructure on the employee’s private network.

The reason is that private networks are not considered as part of the company’s infrastructure.

We want home offices to become part of a certification.

This is necessary to ensure that employees can perform their daily business without any restriction.
2. METHOD

1. We introduced a basic home-office scenario.

2. On the basis of the BSI, we have defined the role "Home Office User" for the employees.

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Execute business tasks on business data at home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operations</td>
<td>Use work equipment and software applications at home</td>
</tr>
<tr>
<td>Qualification</td>
<td>Knowledge of the application domain and the IT-system used</td>
</tr>
<tr>
<td>Eligibility</td>
<td>Every employee whose function can be performed in a home office</td>
</tr>
</tbody>
</table>

Table 1: The Role "Home Office User"

- The home office user is an employee of a health insurance company, who is using customer data.
3. We performed the BSI Basic Protection, to identify all relevant security requirements for the home-office scenario.

4. We used the role „Home Office User“, to identify, all security requirements, that could be implemented by the employee.

   • All other security requirements has to be implemented by the employer.
3. RESULT

- We identified a total of 103 security requirements for our home office scenario.
- 92 security requirements must be implemented by the employer.
- Table 2 shows the 11 security requirements, that must be implemented by the employee.

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>APP.1.1. A2</td>
<td>Limiting Active Content</td>
</tr>
<tr>
<td>APP.1.1. A3</td>
<td>Opening Documents from External Sources</td>
</tr>
<tr>
<td>APP.1.2. A4</td>
<td>Version Checking and Updates for (...)</td>
</tr>
<tr>
<td>NET.3.2. A2</td>
<td>Installing Updates and Patches</td>
</tr>
<tr>
<td>OPS.1.1.4. A5</td>
<td>Operating Virus Protection Programs</td>
</tr>
<tr>
<td>OPS.1.1.4. A6</td>
<td>Updating Virus Protection and Signatures</td>
</tr>
<tr>
<td>SYS.2.1. A1</td>
<td>User Authentication</td>
</tr>
<tr>
<td>SYS.2.1. A3</td>
<td>Activation of Automatic Update Mechanisms</td>
</tr>
<tr>
<td>SYS.2.1. A6</td>
<td>Use of Antivirus Programs</td>
</tr>
<tr>
<td>SYS.3.1. A2</td>
<td>Laptop Access Protection</td>
</tr>
<tr>
<td>SYS.3.1. A3</td>
<td>Use of Personal Firewalls</td>
</tr>
</tbody>
</table>

Table 2: Security Requirements for the Employee
3. RESULT (CONT‘D)

- Our home office scenario is a minimum scenario.
  - These 103 security requirements must be implemented in any home office scenario.

- For a more complex home office scenario, additional security requirements must be identified in the Basic Protection.

- The role „Home Office User“ must be used to identify all additional security requirements that must be implemented by the employee.
4. CONCLUSION

- Our goal was to make home offices part of a certification for companies.
- Home offices must not be considered as external workplaces.
- They are part of the infrastructure of a company.
- Home offices must be integrated into the IT-security policy to ensure
  - data security in the home office.
  - that employees can perform their daily business without any restriction.
- Our scenario introduced a minimal example for a home office.
- This scenario can be expanded to include more elements.
THANK YOU FOR YOUR ATTENTION