

Vulnerability Management

This refers to the cyclical practice of identifying, categorizing and mitigating vulnerabilities

Patch Management

This covers the lifecycle of reviewing and applying patches to systems.

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Vulnerability Management Threats

- Zero day vulnerabilities
- Workarounds (temporary fixes)

Patch Management Threats

- Patch failure
- Poor patch testing (time pressure)

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Vulnerability Management Tools

- Intel from external sources
- Good communication plan

```
const:

Starttext "Informatik macht Freude"; Kl

var

i.ASCIICode.Key:integer;
Endtext:string;
begin
Endtext:=':
Key:=18; then Endtext:=Endtext+chr(ASCI
for l:=1 to length(Starttext) do
begin
ASCIICode:xord(Starttext[i]);
if ASCIICode=cord('Z') then End
if ASCIICode=cord('') then

Kleinhuchstaben

else
begin
if ASCIICode+Key>or
Endtext:=Endtext+chr(ASCII
begin
if ASCIICode+Key>ord('z
else Endtext:=Endtext+chr(ASCII
begin
if ASCIICode+Key>ord('z
else Endtext:=Endtext+chr(ASCII
begin
if ASCIICode+Key>ord('z
else Endtext:=Endtext+chr('z)
end
end; func. std::vector<i
```

write(Endtext);

program Caesar(); e;

Patch Management Tools

- Multiple environments for testing
- Effective roll back procedures
- Virtual patching



Availability Management

Concerned primarily with uptime and also disaster recovery procedures.



Availability Management Threats

- Application failure
- DDoS attacks
- Misconfiguration
- Power failure
- Natural disasters



Availability Management Tools

- Load balancing
- Redundancy
- Backups
- Backup sites

