

# The New Windows Monitoring - One Year Later

CHECKMK CONFERENCE #6 - MUNICH, APRIL 28, 2020



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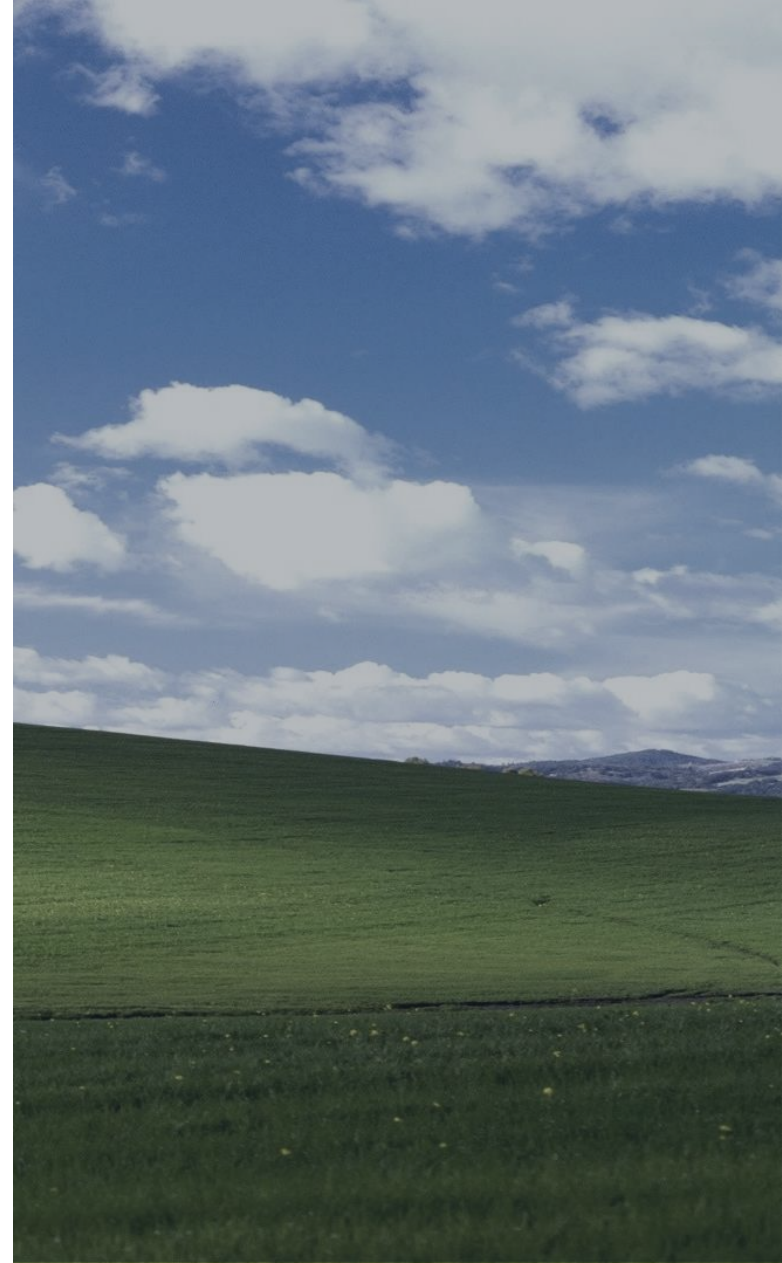
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Developer

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# Agenda

1. LESSONS LEARNT SINCE RELEASE
2. NEW FEATURES FOR WINDOWS AGENT 1.7
3. WINDOWS ROADMAP AFTER 1.7



LESSONS LEARNT

# Smooth first months in operation

## TICKETS

Less than 80 support tickets since launch

## WERKS

Less than 10 bug fixes required

## TYPICAL ISSUES

- Migrating from 1.5 to 1.6
- Architecture changes in 1.6
- Agent Updater vs. AV scanner

# Uncertainties with migration from windows agents 1.5 to 1.6



## Typical questions

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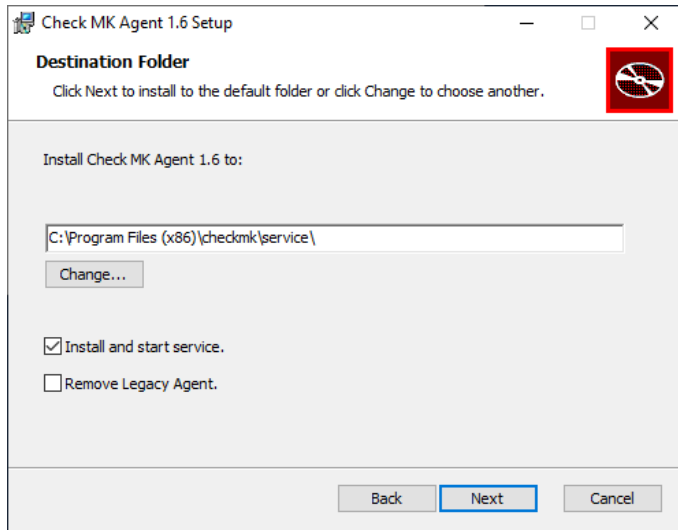
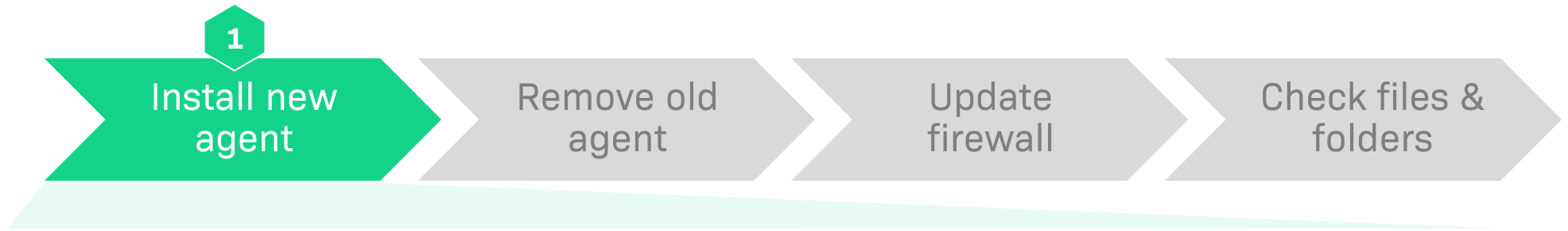
- Why is the new agent not replacing the old?
- When should I remove the old agent?
- Why are not all files of the old agent deleted?



Installation procedure of the agent  
has mostly not changed...

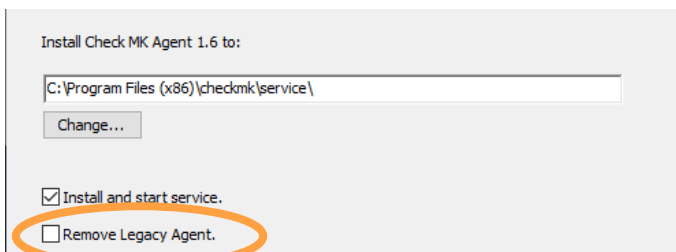
...however the removal of the old  
agent is different

# Best practice for windows agent update

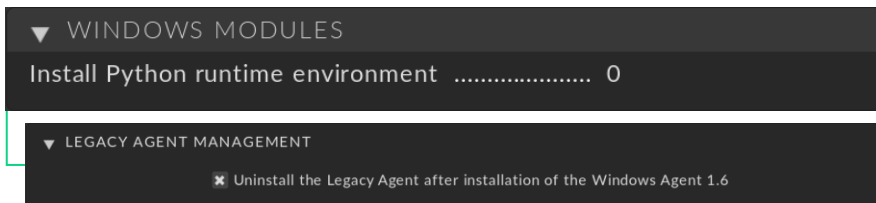


- Install new agent either...
  - ...execute MSI file
  - ...bake and sign agents after update of Checkmk server
- Legacy agent will not be removed by default – however disabled
- Preserve old agent in case something goes wrong

# Best practice for windows agent update



- Remove the old agent once you tested and/or productive system for some hosts work well
- Either...
  - ...execute the uninstaller
  - ...use automatic removal by enabling checkbox in the installer (e.g. for the rollout to remaining hosts)
  - ...use automatic removal by creating a rule in 'Legacy Agent Management'



# Best practice for windows agent update



- Adjust manually set firewall rules if needed:

## New firewall

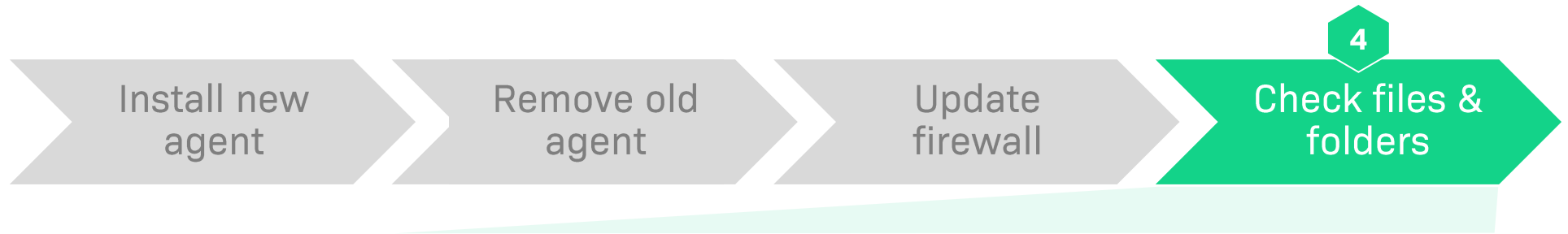
```
C:\Windows\System32> netsh advfirewall firewall add rule name="Check_MK" ^
More? description="Monitoring" dir=in localport=6556 protocol=tcp action=allow ^
More? program="%ProgramFiles(x86)%\checkmk\service\check_mk_agent.exe" ^
More? profile=private, domain enable=yes
OK.
```

## Adjust firewall

```
C:\Windows\System32> netsh advfirewall firewall set rule name="Check_MK" ^
More? new program="%ProgramFiles(x86)%\checkmk\service\check_mk_agent.exe"

Updated 1 rule(s).
Ok.
```

# Best practice for windows agent update



- Manually added files in the old agent folder will remain (together with the folder) after the removal of the old agent
- Common behavior (of all operating systems) so that you need to remove unwanted files manually

More details to  
architecture difference on  
following slides

All information can also be  
found in our handbook:

Chapter 4.3



# Architecture changes from 1.5 to 1.6



## Typical questions

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- What is the difference between old and new agent?
- Where do I add my custom configuration options?
- How do I specify which plugins to execute?
- Where do I store the configuration for my plugins?
- What is the new folder 'C:\ProgramData\checkmk\agent'?




# Differences between 1.5 and 1.6

Topics	Version 1.5	Version 1.6
<b>1</b> Agent & folders	<p>Old agent not following Windows best practices</p> <ul style="list-style-type: none"><li>• Program and user files in same folder</li><li>• No transparency on which files have been shipped with the software and which have been added later</li><li>• All files: 'C:\Program Files (x86)\check_mk'</li></ul>	<p>Files and folders differentiated</p> <ul style="list-style-type: none"><li>• Application files shipped with installer: 'C:\Program Files (x86)\Checkmk\service\'</li><li>• Custom configurations, log files of the agent itself, plugins to execute: 'C:\ProgramData\checkmk\agent\'</li></ul>

# Differences between 1.5 and 1.6

Topics	Version 1.5	Version 1.6
 Config file format	<ul style="list-style-type: none"><li>• Format ini<ul style="list-style-type: none"><li>• check_mk.ini</li><li>• check_mk.local.ini</li></ul></li><li>• Relatively flat structure</li><li>• Ease to use for simple configurations</li></ul>	<ul style="list-style-type: none"><li>• Format yaml<ul style="list-style-type: none"><li>• check_mk.yml</li><li>• check_mk.bakery.yml</li><li>• check_mk.user.yml</li></ul></li><li>• Also classical key-value pair to configure your agent</li><li>• Easier to use if you want to handle structured data (e.g. complex configurations)</li></ul>

# Differences between 1.5 and 1.6

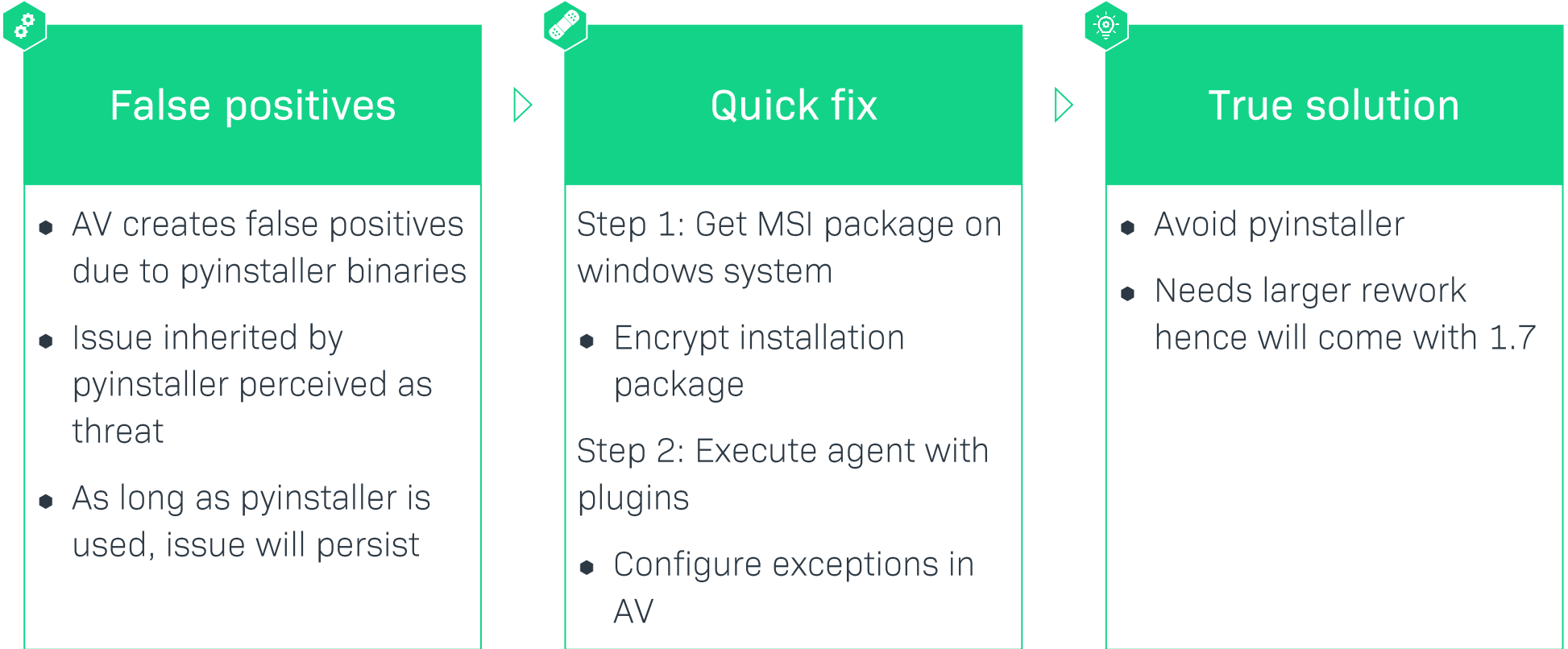
Topics	Version 1.5	Version 1.6
 Plugins	<ul style="list-style-type: none"><li>• Manually download each plugin from Checkmk server into plugins folder</li><li>• Configuration of plugin execution with several independent keys</li><li>• No distinction between bakery and default configuration; user configuration not well known</li></ul>	<ul style="list-style-type: none"><li>• Plugins executed by default saved in <code>'C:\ProgramData\checkmk\agent\plugins\'</code></li><li>• No need to download plugins from Checkmk server anymore</li><li>• Simply copy plugin from application folder to 'ProgramData' folder</li></ul>

Planned: Enhance result page of installer, include read me.txt

All information can also be found in our handbook:

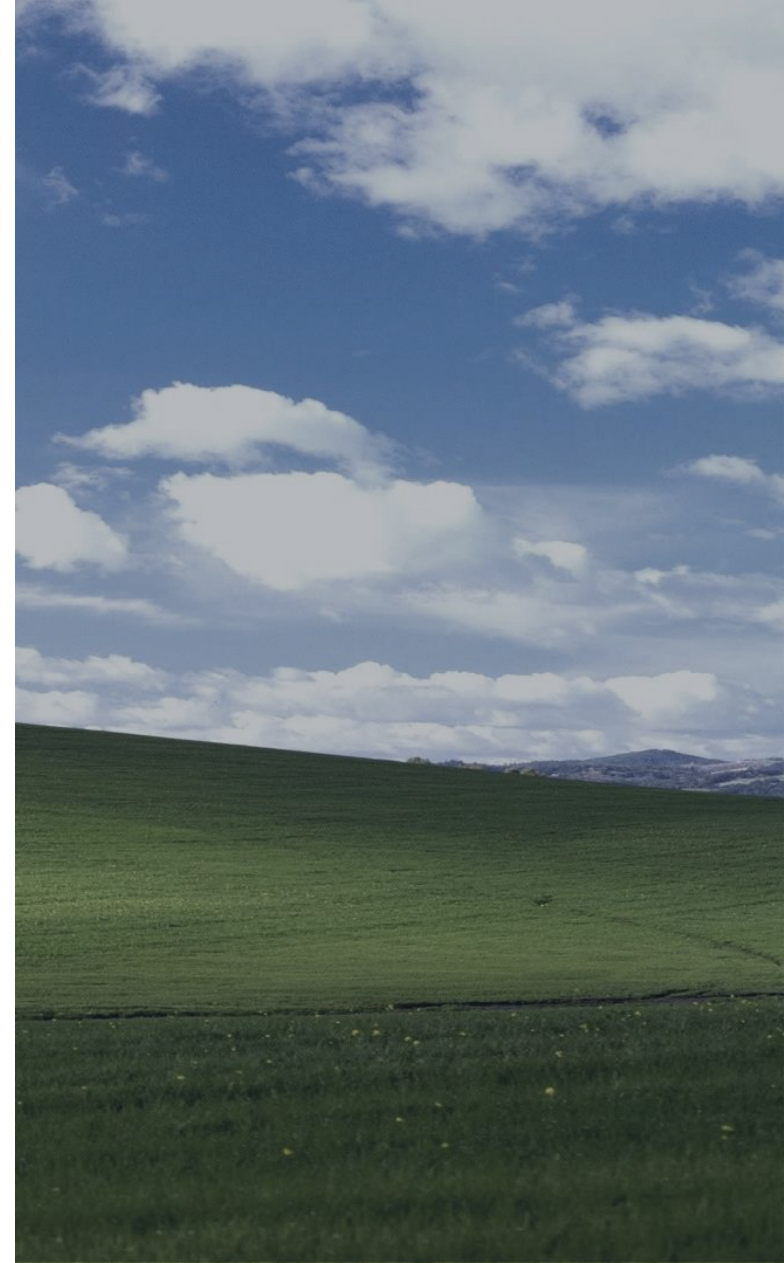
Chapter 3, 6 & 7

# Agent Updater vs. Anti Virus scanner



# Agenda

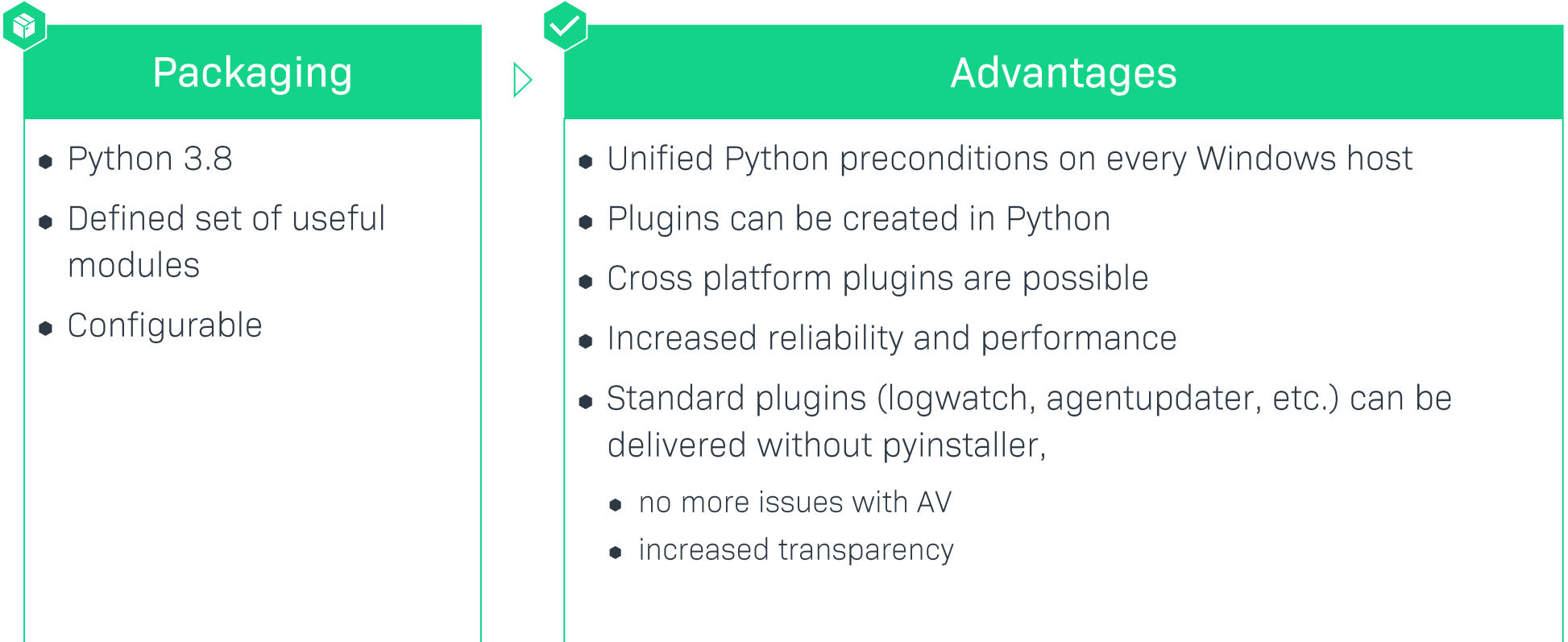
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# New Features for Windows agent 1.7

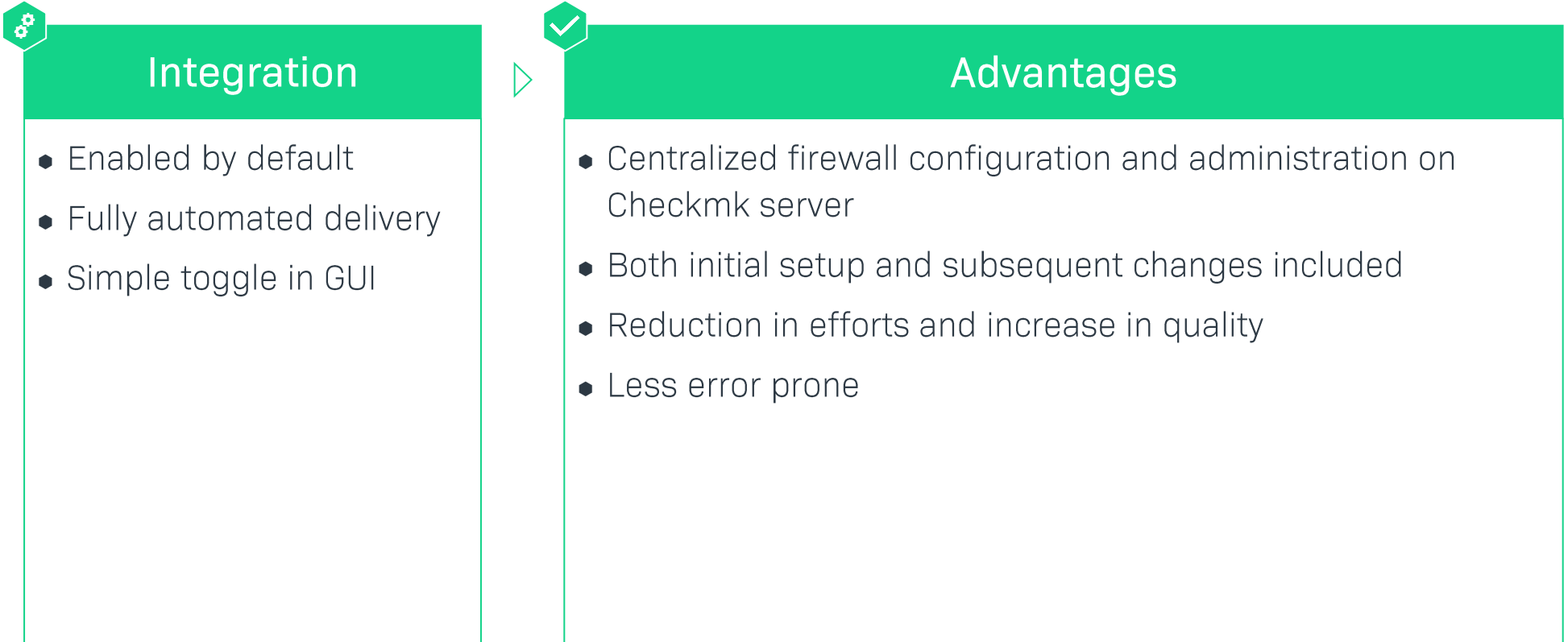
- Native Python plug-in support
  - Automatic firewall configuration
    - Execute plugins with specific permission
      - Control removal of agent

# Native Python plug-in support

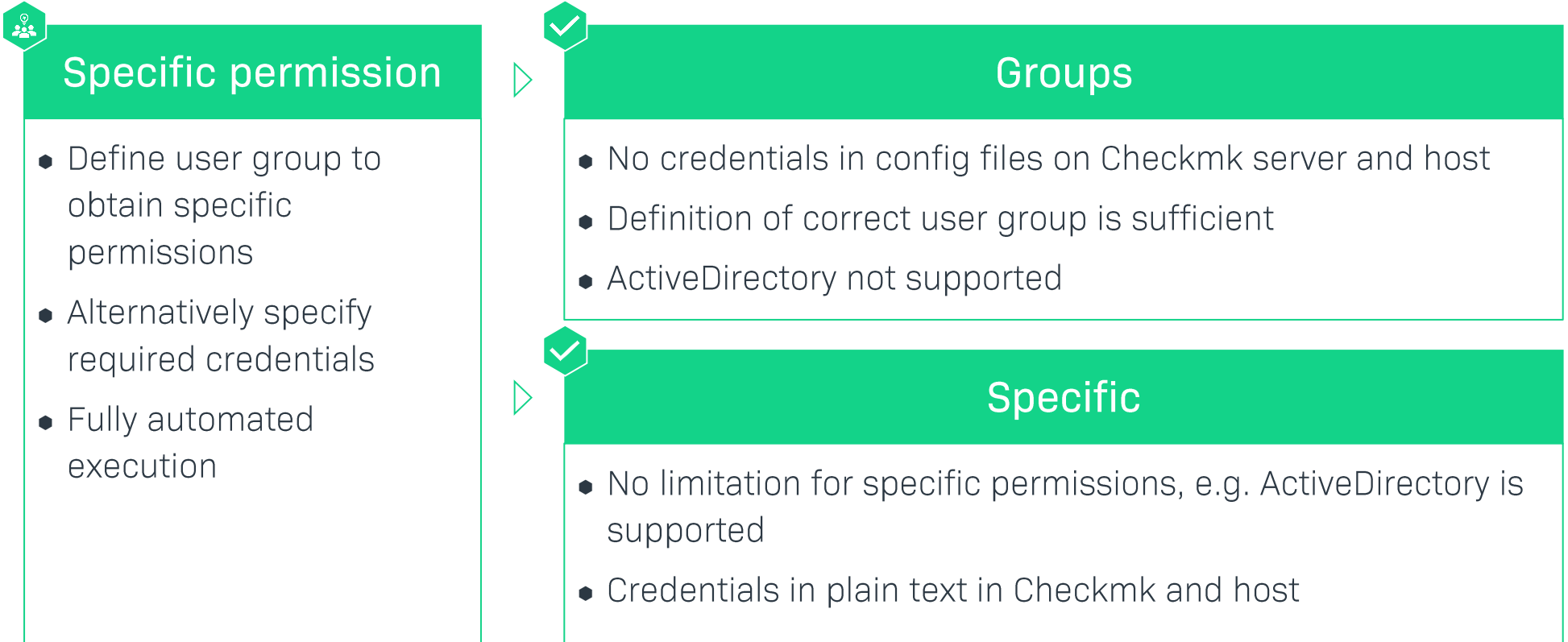






# Automatic firewall configuration



# Execute plugins with specific permission



# Control removal of agent

 Deinstallation	 Advantages
<ul style="list-style-type: none"><li>• Remove own files per default – „smart clear“</li><li>• Simple toggle in GUI for full removal or full preservation</li><li>• Fully automated execution</li></ul>	<ul style="list-style-type: none"><li>• Full control over agent / removal behavior</li><li>• Clean status / installation</li><li>• User files can be preserved or fully removed if wanted</li></ul>

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# Focus on Windows Application Monitoring

## Windows Application Monitoring

### *New applications*

- Microsoft 365
- IIS
- ...

### *Improvements*

- Exchange
- Hyper-V
- ...

## Cross Platform Monitoring

### *New*

- Db2
- mongoDB
- SAP (maybe)
- mysql (maybe)
- ...

## Windows Agent

### *Improvements*

- Diagnostic
- Performance
- Features
- ...

WINDOWS ROADMAP AFTER 1.7

It's your ideas and requirements  
that drive us!

Let us know by posting your  
wishes in our Slack channel

# Any questions?

# Thank you



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