

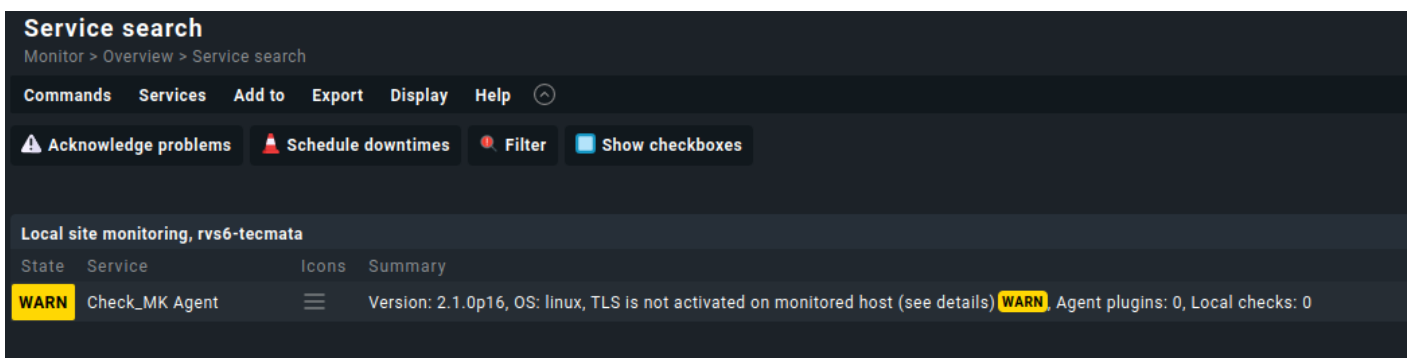
Agents am CheckMK Server registrieren

Beschreibung:

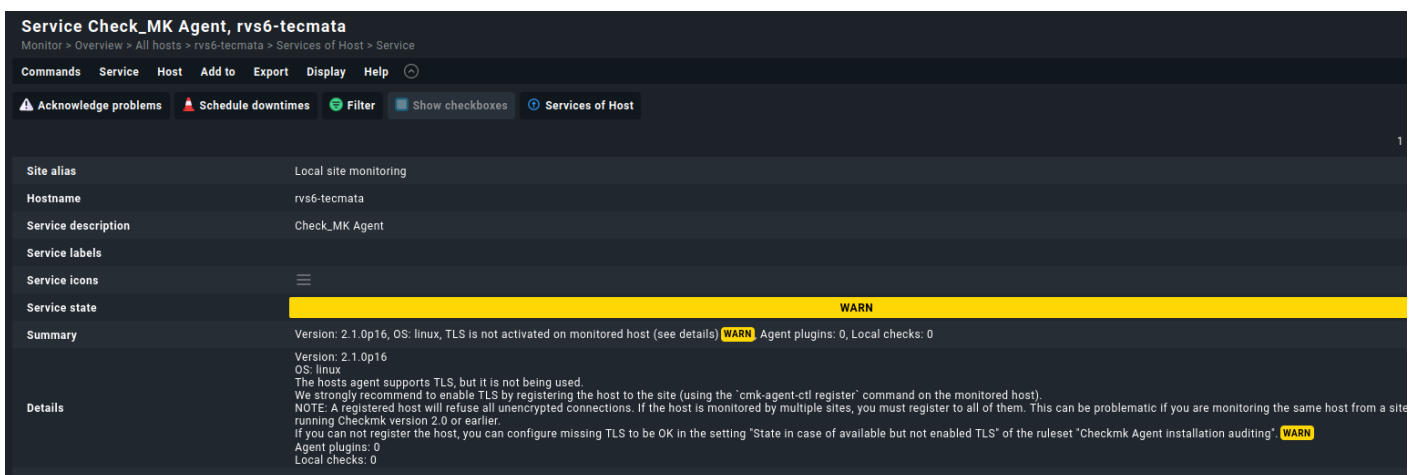
Wenn im Service AGENT diese Warnung steht, ist der Host mit seinem agent beim Checkmk Server noch nicht registriert.

Der host wird erst im Checkmk angelegt und dann übers Terminal registriert. Ansonsten steht diese Meldung hier.

Denn der Host kann den Agent ja erreichen, aber unverschlüsselt und für jeden.



The screenshot shows the 'Service search' interface in Checkmk. The breadcrumb is 'Monitor > Overview > Service search'. There are tabs for 'Commands', 'Services', 'Add to', 'Export', 'Display', and 'Help'. Below these are buttons for 'Acknowledge problems', 'Schedule downtimes', 'Filter', and 'Show checkboxes'. The main content area is titled 'Local site monitoring, rvs6-tecmata' and has a table with columns 'State', 'Service', 'Icons', and 'Summary'. A row for 'Check_MK Agent' is highlighted with a yellow background and a 'WARN' icon. The summary text for this agent reads: 'Version: 2.1.0p16, OS: linux, TLS is not activated on monitored host (see details) WARN, Agent plugins: 0, Local checks: 0'.



The screenshot shows the 'Service Check_MK Agent, rvs6-tecmata' details page. The breadcrumb is 'Monitor > Overview > All hosts > rvs6-tecmata > Services of Host > Service'. There are tabs for 'Commands', 'Service', 'Host', 'Add to', 'Export', 'Display', and 'Help'. Below these are buttons for 'Acknowledge problems', 'Schedule downtimes', 'Filter', 'Show checkboxes', and 'Services of Host'. The main content area is a table with the following fields: 'Site alias' (Local site monitoring), 'Hostname' (rvs6-tecmata), 'Service description' (Check_MK Agent), 'Service labels', 'Service icons', 'Service state' (WARN), and 'Summary'. The 'Summary' field contains the text: 'Version: 2.1.0p16, OS: linux, TLS is not activated on monitored host (see details) WARN, Agent plugins: 0, Local checks: 0'. The 'Details' field contains a note: 'NOTE: A registered host will refuse all unencrypted connections. If the host is monitored by multiple sites, you must register to all of them. This can be problematic if you are monitoring the same host from a site running Checkmk version 2.0 or earlier. If you can not register the host, you can configure missing TLS to be OK in the setting "State in case of available but not enabled TLS" of the ruleset "Checkmk Agent installation auditing". WARN'.

Warum das ganze?

Wenn der Agent unverschlüsselt läuft, kann jeder über den Port Daten vom Host abgreifen

Befehl:

```
telnet 192.168.0.34 6556
```

Die Ausgabe

```
<<<check_mk>>>
Version: 2.1.0p16
AgentOS: linux
Hostname: rvs6-tecmata
AgentDirectory: /etc/check_mk
DataDirectory: /var/lib/check_mk_agent
SpoolDirectory: /var/lib/check_mk_agent/spool
PluginsDirectory: /usr/lib/check_mk_agent/plugins
LocalDirectory: /usr/lib/check_mk_agent/local
FailedPythonReason:
SSHClient:
<<<cmk_agent_ctl_status:sep(0)>>>
{"version":"2.1.0p16","agent_socket_operational":true,"ip_allowlist":[],"allow_legacy_pull":true,"connections":[]}
<<<checkmk_agent_plugins_Inx:sep(0)>>>
pluginsdir /usr/lib/check_mk_agent/plugins
localdir /usr/lib/check_mk_agent/local
<<<labels:sep(0)>>>
<<<df>>>
tmpfs          tmpfs  1616236  1568  1614668   1% /run
/dev/mapper/rvs6test--vg-root ext4  243008916 169841472 60750420  74% /
tmpfs          tmpfs  8081168  46800  8034368   1% /dev/shm
tmpfs          tmpfs   5120    0    5120     0% /run/lock
/dev/nvme0n1p2 ext2   481642  124858  331799   28% /boot
/dev/nvme0n1p1 vfat   523248  3512   519736   1% /boot/efi
/dev/fuse      fuse   131072   52   131020   1% /etc/pve
tmpfs          tmpfs  1616232    0  1616232   0% /run/user/0
<<<df>>>
[df_inodes_start]
tmpfs          tmpfs  2020292  1131  2019161   1% /run
/dev/mapper/rvs6test--vg-root ext4  15507456 61994 15445462   1% /
tmpfs          tmpfs  2020292  106  2020186   1% /dev/shm
tmpfs          tmpfs  2020292  21  2020271   1% /run/lock
/dev/nvme0n1p2 ext2   124928  352   124576   1% /boot
/dev/nvme0n1p1 vfat    0    0    0    - /boot/efi
```

```
/dev/fuse          fuse  262144  38 262106  1% /etc/pve
tmpfs             tmpfs 404058  20 404038  1% /run/user/0
[df_inodes_end]
[df_lsblk_start]
{
  "blockdevices": [
    {"name":"/dev/sda", "uuid":null},
    {"name":"/dev/sda1", "uuid":"77085686-971d-498a-8692-0fd8048da3a0"},
    {"name":"/dev/sr0", "uuid":null},
    {"name":"/dev/mapper/nvme0n1p3_crypt", "uuid":"ZZLFwZ-JMTb-Qdcu-akhk-5gEc-d2kd-6idwqE"},
    {"name":"/dev/mapper/rvs6test--vg-root", "uuid":"da0060ca-629b-4f24-96e4-2bc3dd1dde9a"},
    {"name":"/dev/mapper/rvs6test--vg-swap_1", "uuid":"08efe098-7e3a-4ab0-b961-5154eb194d89"},
    {"name":"/dev/nvme0n1", "uuid":null},
    {"name":"/dev/nvme0n1p1", "uuid":"04B7-49AB"},
    {"name":"/dev/nvme0n1p2", "uuid":"0c954140-e9ed-457d-8833-f4564326cdd5"},
    {"name":"/dev/nvme0n1p3", "uuid":"663f7527-3144-4b54-9768-454e65aad4b4"}
  ]
}
[df_lsblk_end]
<<<systemd_units>>>
[list-unit-files]

...
<<<timesyncd>>>
  Server: 129.70.132.34 (2.debian.pool.ntp.org)
Poll interval: 34min 8s (min: 32s; max 34min 8s)
  Leap: normal
  Version: 4
  Stratum: 2
  Reference: 81468952
  Precision: 1us (-24)
Root distance: 3.287ms (max: 5s)
  Offset: +2.726ms
  Delay: 15.787ms
  Jitter: 5.769ms
Packet count: 2634
  Frequency: -9.423ppm
[[[1674394719]]]
<<<timesyncd_ntpmessage:sep(10)>>>
NTPMessage={ Leap=0, Version=4, Mode=4, Stratum=2, Precision=-24, RootDelay=381us,
```

```
RootDispersion=3.097ms, Reference=81468952, OriginateTimestamp=Sun 2023-01-22 14:38:39 CET,
ReceiveTimestamp=Sun 2023-01-22 14:38:39 CET, TransmitTimestamp=Sun 2023-01-22 14:38:39 CET,
DestinationTimestamp=Sun 2023-01-22 14:38:39 CET, Ignored=no PacketCount=2634, Jitter=5.769ms }
Timezone=Europe/Berlin
<<<local:sep(0)>>>
Connection closed by foreign host.
```

Nachdem der Server registriert wurde, sieht die Ausgabe nun so aus. Nun kann nur noch der Checkmk Server mit dem Zertifikat die Daten abrufen und keine dritten mehr. Denn das wäre ja noch so ohne Probleme gegangen, wie die obere Ausgabe ja zeigt.

```
oot@checkmk:~# telnet 192.168.0.34 6556
Trying 192.168.0.34...
Connected to 192.168.0.34.
Escape character is '^]'.
16

Is still waiting here...
No Output anymore
```

Wie registrieren wir den Server nun?

Unter Linux:

Dazu auf dem Server einloggen wo der Agent läuft und mit `cmk-agent-ctl` hinzufügen
Hier einmal die Hilfe die wir mit Parameter `-h` bekommen. Keine Panik, weiter unten zeige ich ein Beispiel.

Der Befehl

```
cmk-agent-ctl -h

Ausgabe:

cmk-agent-ctl 2.1.0p16
Checkmk agent controller.

USAGE:
```

```
cmk-agent-ctl <SUBCOMMAND>
```

FLAGS:

```
-h, --help    Prints help information
-V, --version  Prints version information
```

SUBCOMMANDS:

```
daemon      Run as daemon and handle all pull and push connections
delete      Delete a connection to a Checkmk instance
delete-all  Delete all connections to Checkmk sites
dump        Collect monitoring data and write it to standard output
help        Prints this message or the help of the given subcommand(s)
import      Import a pull connection from file or standard input
proxy-register  Register with a Checkmk site on behalf of another host
pull        Handle incoming connections from Checkmk sites collecting monitoring data
push        Push monitoring data to all Checkmk sites configured for 'push'
register     Register with a Checkmk site
status      Query the registration status of this host
```

Hier die Parameter für den Befehl register aus der Hilfe

```
cmk-agent-ctl register -h
```

Ausgabe:

```
cmk-agent-ctl-register 1.0.0
```

```
Register with a Checkmk site
```

```
Register with a Checkmk instance for monitoring. The required information can be read from a config file or must be passed via command line.
```

USAGE:

```
cmk-agent-ctl register [FLAGS] [OPTIONS]
```

FLAGS:

```
-d, --detect-proxy  Detect and use proxy settings configured on this system for outgoing HTTPS connections.
```

```
The default is to ignore configured proxies and to connect directly
```

```
-h, --help    Prints help information
```

```
--trust-cert      Blindly trust the server certificate of the Checkmk site
--validate-api-cert  Enable TLS certificate validation for querying the agent receiver port from the Checkmk
                    REST API. By default, certificate validation is disabled because it is not security-
                    relevant at this stage, see werk #14715
-V, --version     Prints version information
-v, --verbose     Enable verbose output. Use once (-v) for logging level INFO and twice (-vv) for logging
                    level DEBUG
```

OPTIONS:

```
-H, --hostname <host-name>  Name of this host in the monitoring site
-P, --password <password>    Password for API user. Can also be entered interactively
-s, --server <server>        Address of the Checkmk site in the format "<server>" or "<server>:<port>"
-i, --site <site>           Name of the Checkmk site
-U, --user <user>           API user to use for registration
```

Welche Parameter brauchen wir?

Da wir ein selbstsigniertes Zertifikat haben brauchen wir folgende Parameter

```
--trust-cert
--password <password>
--server <server>
--site <sitename/instanzname>
--user <user>
```

Also würde unser Befehl so aussehen:

```
cmk-agent-ctl register --trust-cert --password *****usersischerspass**** --hostname rvs6-tecmata --server
192.168.0.33 --site monitoring --user automation
```

Erläuterung der Parameter:

```
--password das automation user api password
--hostname der Hostname des Servers den wir registrieren wollen, dieser name muss identisch mit
dem im checkmk sein, im Feld hostname hier rvs6-tecmata
--server : unser checkmkserver an dem wir den client registrieren wollen
--site unsere site / instanz auf dem checkmk server hier monitoring
--user der api user hier automation
```

Unter Windows

Eine Eingabeaufforderung mit Admin rechten Öffnen



```
Administrator: Eingabeaufforderung
Microsoft Windows [Version 10.0.19044.2604]
(c) Microsoft Corporation. Alle Rechte vorbehalten.

C:\WINDOWS\system32>
```

Nun den Client mit -h öffnen um die Parameter zu bekommen.

```
C:\WINDOWS\system32>"C:\Program Files (x86)\checkmk\service\cmk-agent-ctl.exe" -h
cmk-agent-ctl 2.1.0p16
Checkmk agent controller.

USAGE:
  cmk-agent-ctl.exe <SUBCOMMAND>

FLAGS:
  -h, --help    Prints help information
  -V, --version  Prints version information

SUBCOMMANDS:
  daemon      Run as daemon and handle all pull and push connections
  delete      Delete a connection to a Checkmk instance
  delete-all  Delete all connections to Checkmk sites
  dump        Collect monitoring data and write it to standard output
  help        Prints this message or the help of the given subcommand(s)
  import      Import a pull connection from file or standard input
  proxy-register  Register with a Checkmk site on behalf of another host
  pull        Handle incoming connections from Checkmk sites collecting monitoring data
  push        Push monitoring data to all Checkmk sites configured for 'push'
```

register	Register with a Checkmk site
status	Query the registration status of this host

```
C:\WINDOWS\system32>
```

Dann lassen wir uns die Hilfe für den Parameter register anzeigen

```
C:\WINDOWS\system32>"C:\Program Files (x86)\checkmk\service\cmk-agent-ctl.exe" register -h
cmk-agent-ctl.exe-register 1.0.0
```

Register with a Checkmk site

Register with a Checkmk instance for monitoring. The required information can be read from a config file or must be passed via command line.

USAGE:

```
cmk-agent-ctl.exe register [FLAGS] [OPTIONS]
```

FLAGS:

-d, --detect-proxy Detect and use proxy settings configured on this system for outgoing HTTPS connections.

The default is to ignore configured proxies and to connect directly

-h, --help Prints help information

--trust-cert Blindly trust the server certificate of the Checkmk site

--validate-api-cert Enable TLS certificate validation for querying the agent receiver port from the Checkmk REST API. By default, certificate validation is disabled because it is not security-relevant at this stage, see werk #14715

-V, --version Prints version information

-v, --verbose Enable verbose output. Use once (-v) for logging level INFO and twice (-vv) for logging level DEBUG

OPTIONS:

-H, --hostname <host-name> Name of this host in the monitoring site

-P, --password <password> Password for API user. Can also be entered interactively

-s, --server <server> Address of the Checkmk site in the format "<server>" or "<server>:<port>"

-i, --site <site> Name of the Checkmk site

-U, --user <user> API user to use for registration

Welche Parameter brauchen wir?

Da wir ein selbstsigniertes Zertifikat haben brauchen wir folgende Parameter

```
--trust-cert  
--password <password>  
--server <server>  
--site <sitename/instanzname>  
--user <user>
```

Also würde unser Befehl so aussehen:

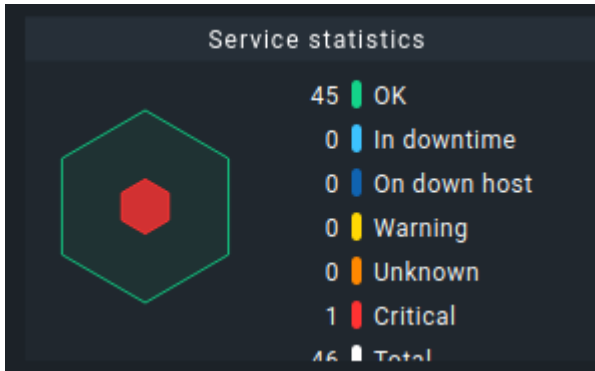
```
"C:\Program Files (x86)\checkmk\service\cmk-agent-ctl.exe" register --trust-cert --password  
*****unersischerspass***** --hostname rvs6-tecmata --server 192.168.0.33 --site monitoring --user automation
```

Wenn alles geklappt hat wird nichts als Ausgabe zurück gegeben.

Nun können wir den Status überprüfen:

```
"C:\Program Files (x86)\checkmk\service\cmk-agent-ctl.exe" status  
Version: 2.1.0p16  
Agent socket: operational  
IP allowlist: any  
  
Connection: ip:8000/monitoring  
  UUID: 00bf5de9-7d67-4c76-a9c5-886310581f19  
  Local:  
    Connection type: pull-agent  
    Certificate issuer: Site 'monitoring' local CA  
    Certificate validity: Wed, 08 Mar 2023 12:14:56 +0000 - Mon, 09 Jul 3021 12:14:56 +0000  
  Remote:  
    Connection type: pull-agent  
    Registration state: operational  
    Host name: jtl-wawiclient  
  
C:\WINDOWS\system32>
```

Nun ist die Warnung weg.



Ob dieser abschnitt noch benötigt wird weiß ich nicht, ich lasse es erstmal stehen

Bleibt der Fehler bestehen und es ist noch eine CRIT Warnung dazu gekommen die lautet [agent] Host is registered for TLS but not using it **CRIT**, Got no information from host **CRIT**, execution time 0.1 sec

Local site monitoring, rvs6-tecmata			
State	Service	Icons	Summary
CRIT	Check_MK	☰ 📧	[agent] Host is registered for TLS but not using it CRIT , Got no information from host CRIT , execution time 0.1 sec

Version #14

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