

NAGIOS (services and tools)
Server plugins - C++ code that modify the behaviour of dedicated servers. They are used to provide everything from maintenance tools to additional game types.

Nagios runs on server as a daemon, periodically runs plugins residing on the same server, they contact (ping,...) hosts and servers on your network, or on internet. Also I can send info to Nagios → press web interface par místa dostupné status information a dostupnost email, send notification, loguje vývoj stavu + můžou až do reagovat event handling.

Host definition:

Před monitorem services → definovat host, když je spojeny se services → soubor specifikací v "cfg files" nebo konfigurace v konkrétní "cfg.dcf"

Service definition:

Pro každou službu, kterou chci monitorovat → potřeba definovat service, když je spojen s vytvořenou host definition. náhled service def. → viz. výše.

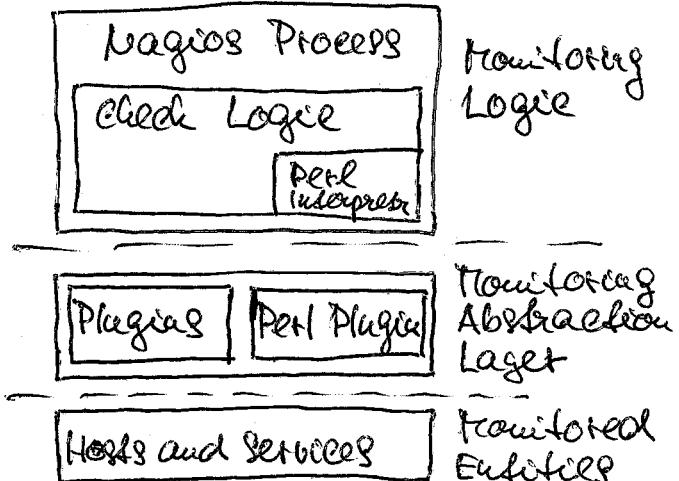
Monitoring HTTP:

Pro to že check-https plugin (rozšíření protokolu HTTPS a může monitorovat response-time, error codes, strings in returned HTML, server certificates,... → Soubor commands obdrží definici příkazu pro použití check... pluginu

```
define command{  
name check-https  
command-name check-https  
command-line $USER1$/check-https  
    -I $HOSTADDRESS$ $ARG1$}
```

```
define service{  
use generic-service; inherit values from a template  
host-name remotehost  
service-description HTTP  
check-command check-https}
```

```
define host{  
use generic-host;  
host-name remotehost;  
alias Some Remote Host  
address  
hostgroups allhosts;  
host groups this host is associated with?}
```



Nagios ellen gály! várta! minden pro kontrolekben szereb a széle.
→ dekkel 10 pikk pluginek.

Plugs - script, működik bárki és rombol
ad hozzá a kontrolegek elne hostekre, szereb, Nagiosz processz gyakorlatig, hozzá dosszal → plugginek a dekkel akci (esemény event-handller, posztozottifikáció)

Szedz notifikáció → is made in the service check and host
Check logic hozzá vannak "hard state change"
zakárol hozzá a host/service v "hard you-Ok" a címkével

Notifikáció → "contact-groups" utának v hosta/service defintion
\$CONTACTDETAILS\$ - email address of the contact being notified
This value is taken from email definition → Contact definition
→ is used to identify someone who should be contacted
in the event of problem of network.

```

define contact {
    contact_name jdoe
    host_notification_enabled 1|0
    service_notification_enabled 1|0
    host_notification_period 24x7
    service_notification_period 24x7
    service_notification_options w,u,r,t
    host_notification_options d,a,r
    service_notification_commands notify-by-email
    host_notification_commands host-notif-by-email
    email jdoe@localhost.localdomain
  
```

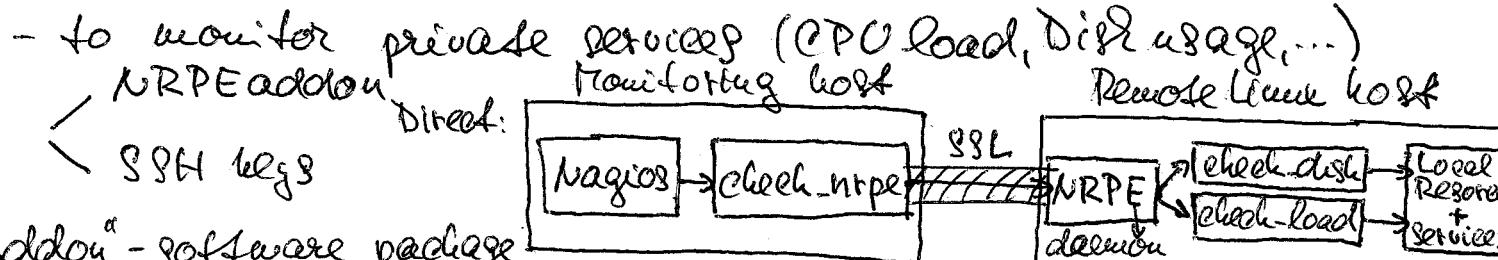
Commands:

Helyi Nagiosz, hibagy program, script, bár nem processz: - Host/service dönt - Notifikációk - Event Handlers, ...

Objekt: → all elements involved in the monitoring and notification logic (services, hosts, contacts, commands, file per.,...)
- are defined in config. files (Quickstart → sample files are, Hl. tipp Objekt):

Hosts (fizikai fizikai, mai IP nébo MAC address, mai néhol "szerebe" napozásra van az, miatt bár spórolja a hosttől hostjához parentchild) Apache Created
Services (nemrál objekt, je spórolja a hosttől a szerebe/bár: Disk Usage HTT CPU Memory
- attributus hosttól (CPU load, disk usage,...), - services provided by the host (HTTP, POP3, SSH,...) - osztály valóspórolja a hosttől (DNS,...))
Contacts (szerebe valószínűleg nincs, de nem...)

Monitoring Linux / Unix machines - Nagios



"Addon" - software package

that extends Nagios's functionality.

① REMOTE HOST CONFIG:

Remote Host Setup: → NRPE.pdf

- to install the Nagios Plugins
- to install xinetd
- to install NRPE daemon
- to test NRPE daemon locally
- to open firewall rules by iptables
- to customize NRPE commands

vi /usr/local/nagios/etc/commands.cfg

define command {

command_name check-ntpe

command_line \$USER1\$/check-ntpe -H
\$HOSTADDRESS\$ -c \$ARG1\$ }

define service { ← Monitor CPU load

on the remote host

use generic-service

host_name ...

service_description CPU Load

check_command check-ntpe!check-load{

define resource {

service_description Current Users

check_command check-ntpe!check-users{ ← Monitor for the currently logged users on the remote host

to je obdobje

private check-ntpe

a to felkel NRPEd.

aby spustil

check-load

perhaz definovat!

v souboru ntp.eff

number of

logged users on the remote host

② MONITORING HOST CONFIG:

→ define new service for monitoring the swap usage on the remote host:

define service {

use generic-service

host_name remotehost

service_description Swap Usage

check_command check-ntpe!check-swap{

→ check command is passing "check-swap"

to the check-ntpe command definition

→ this will cause the NRPE d. to run the check-swap command that was defined

in the ntp.eff file on the remote host in the previous step.

Configuration - overview - NAGIOS

