



THE CHECKMK COMPLETE GUIDE

CONTENT

01

INSTALAÇÃO DO CHECKMK

02

CRIANDO NOSSO PRIMEIRO SITE

03

MONITORANDO O PRÓPRIO SERVER

04

DISTRIBUTED MONITORING

05

CRIANDO TAG GROUPS

06

CRIANDO USERS

07

CRIANDO CONTACT GROUPS

08

CRIANDO HOST GROUPS

1º INSTALAÇÃO DO CHECKMK

- A VERSÃO ESCOLHIDA FOI A VERSÃO 2.2.0P6 RAW PARA UBUNTU 22.04 (VM).
- COMANDOS A SER EXECUTADOS PARA REALIZAR A INSTALAÇÃO:
- O PRIMEIRO COMANDO REALIZA A TRANSFERENCIA DO CHECKMK PARA DENTRO DA MÁQUINA LOCAL, O SEGUNDO REALIZA A INSTALAÇÃO DO MESMO E O TERCEIRO VERIFICA A VERSÃO DO SOFTWARE
 - I. WGET HTTPS://DOWNLOAD...DEB
 - II. SUDO APT INSTALL ./CHECKMK...DEB
 - III. #OMD VERSION

2º CRIANDO NOSSO PRIMEIRO SITE (MASTER)

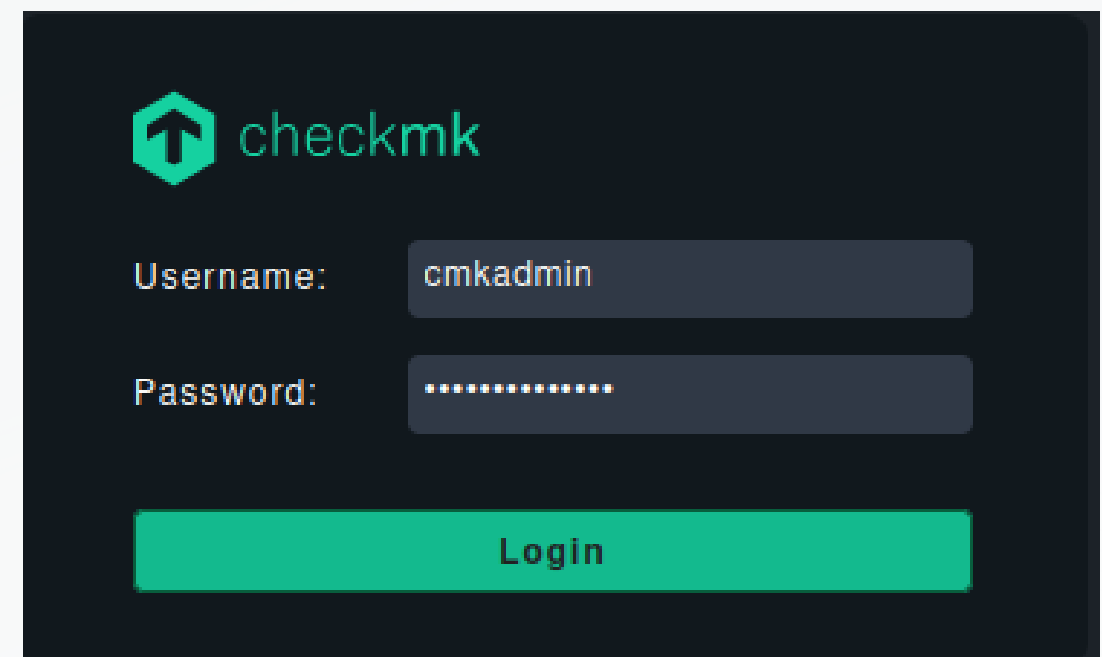
```
mateuscheckmk@mateuscheckmk:~$ omd create mysite
omd: root permissions are needed for this command.
mateuscheckmk@mateuscheckmk:~$ sudo omd create mysite
[sudo] password for mateuscheckmk:
Adding /opt/omd/sites/mysite/tmp to /etc/fstab.
Creating temporary filesystem /omd/sites/mysite/tmp...OK
Updating core configuration...
Generating configuration for core (type nagios)...
Precompiling host checks...OK
Executing post-create script "01_create-sample-config.py"...OK
Restarting Apache...OK
Created new site mysite with version 2.2.0p6.cre.

The site can be started with omd start mysite.
The default web UI is available at http://mateuscheckmk/mysite/

The admin user for the web applications is cmkadmin with password: ASlIr4pg
For command line administration of the site, log in with 'omd su mysite'.
After logging in, you can change the password for cmkadmin with 'cmk-passwd'
```

- O comando `#omd create mysite` nos possibilita criar um site com o nome "mysite"
- Podemos acessar a GUI do site pelo browser mas antes iremos alterar a password gerada automaticamente por motivos de segurança

- Podemos alterar a password por dois meios, pelo terminal e pela GUI, para alterarmos pelo terminal, devemos mudar de utilizador com o comando `sudo su mysite` e após digitar o comando `cmk-passwd cmkadmin`
- Após a mudança de password podemos acessar a GUI com as novas credenciais

The image shows the login interface for Checkmk. At the top left is the Checkmk logo, which consists of a green hexagon with a white upward-pointing arrow, followed by the text "checkmk" in a green, sans-serif font. Below the logo, there are two input fields. The first is labeled "Username:" and contains the text "cmkadmin". The second is labeled "Password:" and contains a series of dots, indicating a masked password. Below these fields is a large, solid green button with the word "Login" in white, centered text.

3º MONITORANDO O PRÓPRIO SERVER

Linux, Solaris, AIX files

Setup > Agents > Linux, Solaris, AIX files

Related Display Help

▼ Packaged Agents

check-mk-agent_2.2.0p6-1_all.deb 3.83 MiB

- Para monitorarmos a nossa própria máquina, precisamos instalar o agente apropriado, no nosso caso iremos instalar o agente para distribuições Debian e Ubuntu, Setup>Agents>Linux

- Após baixar o agent podemos prosseguir com a instalação, com o comando:
 - `# sudo dpkg -i ./check...deb`
- Após a devida instalação do agent podemos criar um novo host, devemos especificar um nome e um endereço IP para o host.
 - nome: mateuscheckmk
 - IPv4: 192.168.1.79

Add host

Setup > Hosts > Main > Add host

Host Display Help ↕

Save & run service discovery

Save & view folder

Save & run connection tests

Main

▼ Basic settings

Hostname (required) mateuscheckmk

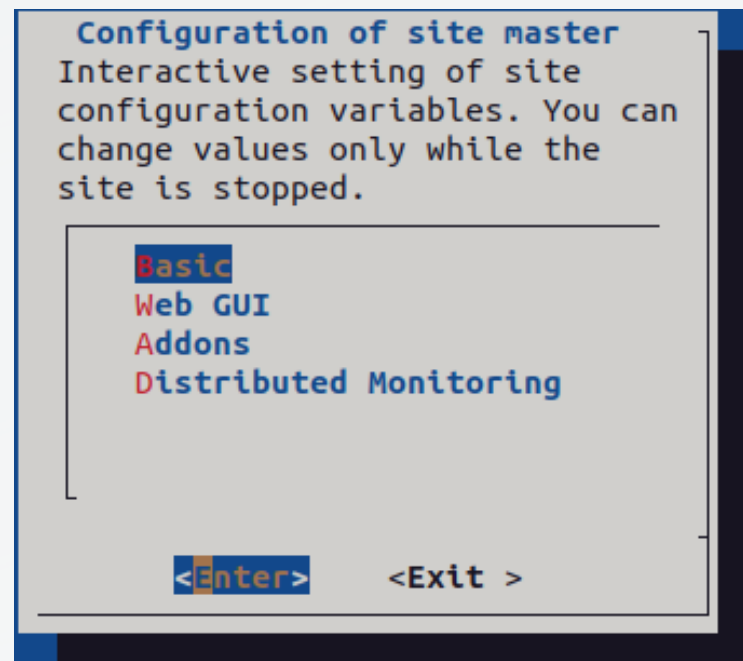
Monitored on site ☐ master - Local site master (Default value)

▼ Network address

IP address family ☐ IPv4 only (Default value)

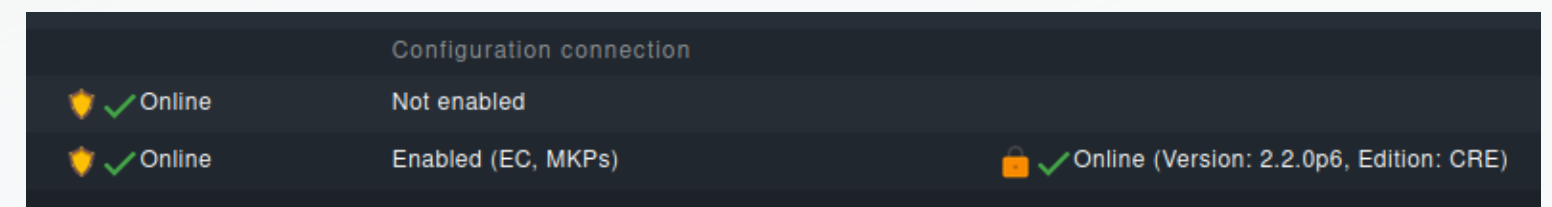
IPv4 address ☒ 192.168.1.79

4º DISTRIBUTED MONITORING



- Iremos criar um site "slave", que será monitorado por um site central "master", dentro do site slave teremos de habilitar o livestatus através do comando:
 - `# omd config` (para que funcione precisamos estar dentro do user slave)

- Após baixar o agent podemos prosseguir com a instalação, com o comando:
 - `# sudo dpkg -i ./check...deb`
- Após a devida instalação do agent podemos criar um novo host, devemos especificar um nome e um endereço IP para o host.
 - nome: mateuscheckmk
 - IPv4: 192.168.1.79



5º CRIANDO TAG GROUPS

Podemos criar tag groups na aba Setup > Hosts > tag groups, alguns tag groups já são disponibilizados pelo checkmk mas podemos criar novos

Dentro de um tag group podemos especificar um topic, no meu caso será o topic "My custom tags", e temos de adicionar no mínimo uma tag.

Tag groups

Setup > Hosts > Tag groups




























Tags

Display

Help

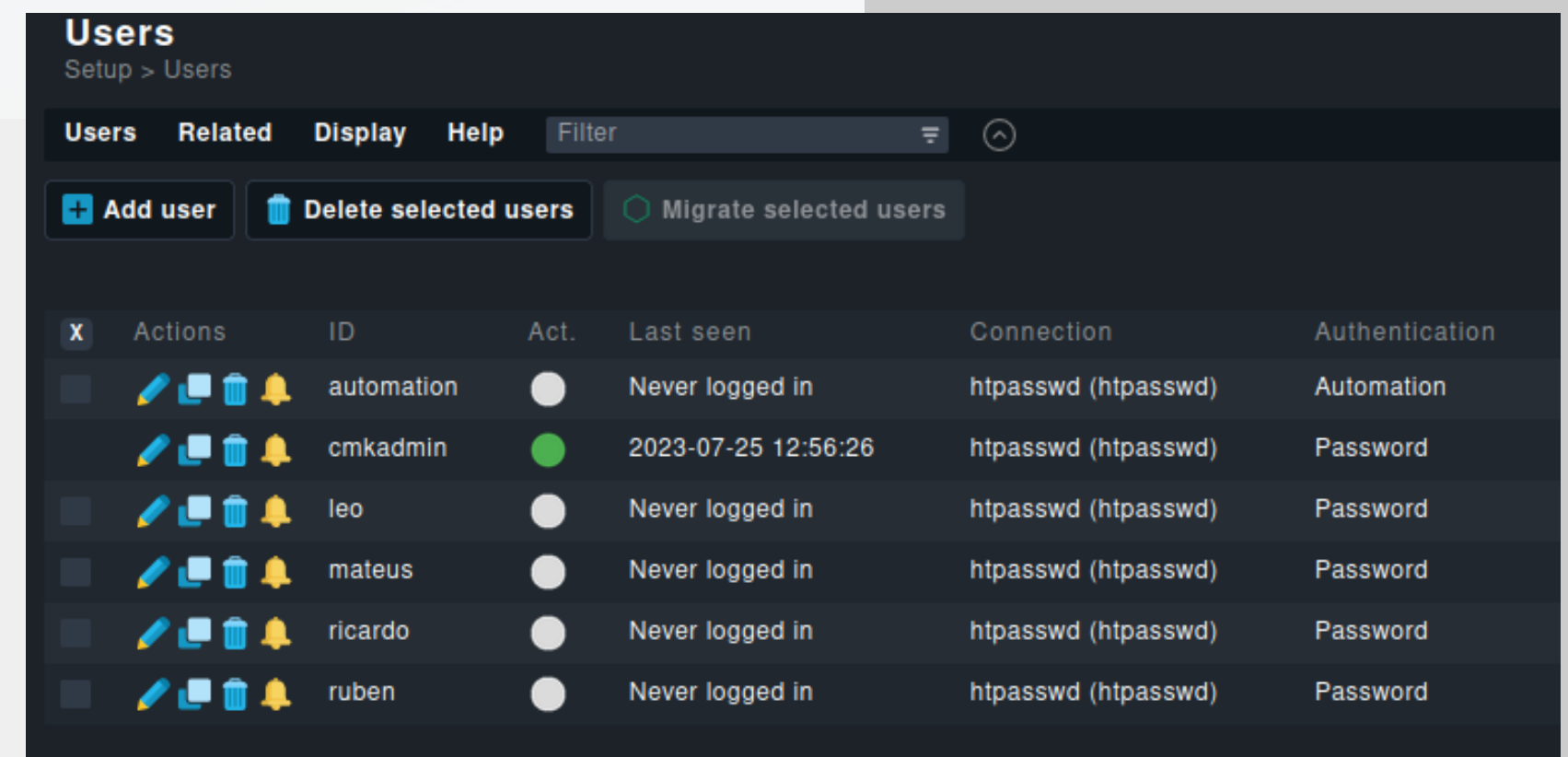
+ Add tag group

+ Add aux tag

| Tag groups | | | |
|---|----------------|----------------------------------|-------------------|
| Actions | ID | Title | Topic |
|    | criticality | Criticality | Tags |
|    | networking | Networking Segment | Tags |
|    | os | OS | My Custom Tags |
|    | priority | Priority | My Custom Tags |
|    | location | Location | My Custom Tags |
|    | environment | Environment | My Custom Tags |
|    | application | Application | My Custom Tags |
|    | customer | Customer | My Custom Tags |
|    | department | Department | My Custom Tags |
| (builtin) | agent | Checkmk agent / API integrations | Monitoring agents |
| (builtin) | piggyback | Piggyback | Monitoring agents |
| (builtin) | snmp_ds | SNMP | Monitoring agents |
| (builtin) | address_family | IP address family | Address |

6º CRIANDO USERS

























Podemos criar utilizadores na aba Setup > Users. Podemos ter diferentes tipos de utilizadores com diferentes funções (roles) a atribuição de roles a utilizadores é necessária pois certos utilizadores só possuem certas permissões, ou só recebem notificações de determinados hosts por exemplo.



Users
Setup > Users

Users Related Display Help Filter

+ Add user Delete selected users Migrate selected users

| X | Actions | ID | Act. | Last seen | Connection | Authentication |
|--------------------------|---|------------|----------------------------------|---------------------|---------------------|----------------|
| <input type="checkbox"/> |     | automation | <input type="radio"/> | Never logged in | htpasswd (htpasswd) | Automation |
| <input type="checkbox"/> |     | cmkadmin | <input checked="" type="radio"/> | 2023-07-25 12:56:26 | htpasswd (htpasswd) | Password |
| <input type="checkbox"/> |     | leo | <input type="radio"/> | Never logged in | htpasswd (htpasswd) | Password |
| <input type="checkbox"/> |     | mateus | <input type="radio"/> | Never logged in | htpasswd (htpasswd) | Password |
| <input type="checkbox"/> |     | ricardo | <input type="radio"/> | Never logged in | htpasswd (htpasswd) | Password |
| <input type="checkbox"/> |     | ruben | <input type="radio"/> | Never logged in | htpasswd (htpasswd) | Password |

7º CRIANDO CONTACT GROUPS

Podemos criar Contact Groups na aba Setup > Users > Contact Groups. Contact Groups servem para agrupar diferentes utilizadores em grupos distintos, possibilitando assim a configuração das notificações e alertas mais eficiente para esse determinado grupo.

Alias

Members

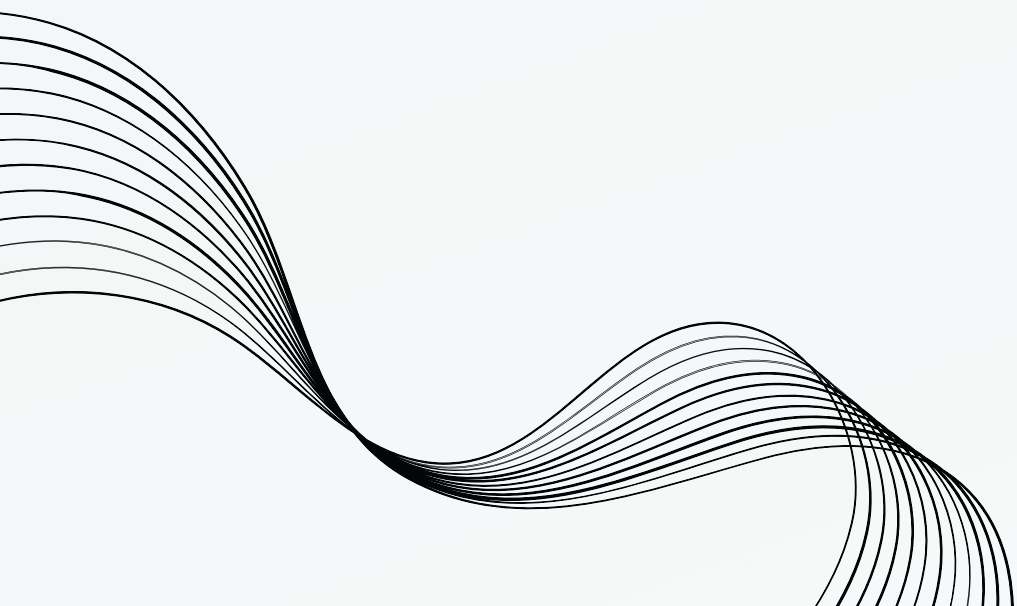
Administrators

Ricardo, Mateus Azevedo da Fonte, Ruben

Everything

Operators

Mateus Azevedo da Fonte, Leonel



7º CRIANDO HOST GROUPS

Podemos associar Hosts a Host Groups por meio de regras de associação (Assignment of hosts to host groups). Essa atribuição de Hosts a Host Groups pode facilitar a busca e a configuração de hosts.

- Ex: Todo host que possua a label "db:oracle" será atribuído ao host group "oracle".

Assignment of hosts to host groups
Setup > Hosts > Host monitoring rules > Assignment of hosts to host groups

Rules Related Display Help ^

+ Add rule ⓘ Host monitoring rules

ⓘ Matching: All matching rules will add to the resulting list.

▼ Rules in folder Main (2)

| # | Actions | Conditions | Value |
|---|--|--|--------|
| 0 |    | Host tag: OS is Windows Host matching labels: <code>cmk/os_family:windows</code> | 'prod' |
| 1 |    | Host tag: OS is Linux Host matching labels: <code>cmk/os_family:linux</code> | 'dev' |