

Advanced Webinar

Basic Configuration Options in Checkmk

Content Overview

01 Configuration Concepts

02 Technical Live-Demo

03 Resources & Useful Links

04 Q & A



The Setup Menu

Most components are configured here:



Hosts & Services



Thresholds and host/service-specific adjustments



Global settings and users



Tag groups and labels



Integration of distributed environments ... and much more

Changes become active after applying **Activate Changes...**

Main directory

Setup > Hosts > Main directory

8 changes

Hosts Folder Related Display Help Filter

Search in Setup



show less

Hosts

- Hosts
- Host monitoring rules
- Tags
- Dynamic host management
- Host groups
- Custom host attributes
- HW/SW inventory rules

Services

- Service monitoring rules
- Discovery rules
- Enforced services
- HTTP, TCP, Email, ...
- Other Services
- Service groups
- Catalog of check plugins

Business Intelligence

- Business Intelligence

Agents

- Windows, Linux, Solaris, AIX
- Other operating systems
- Agent registration
- VM, Cloud, Container
- Other integrations
- Agent access rules
- SNMP rules

Events

- Notifications
- Event Console
- Alert handlers

Users

- Users
- Contact groups
- Roles & permissions
- LDAP & Active Directory
- SAML authentication
- Custom user attributes

General

- Rule search
- Global settings
- Read only mode
- Predefined conditions
- Time periods
- Passwords
- Distributed monitoring
- Audit log
- Custom icons

Maintenance

- Backups
- Licensing
- Extension packages
- Support diagnostics
- Analyze configuration
- Background jobs

Exporter

- InfluxDB Connections

The Setup Menu

Mostly you will be working with hosts/services

Important concepts:



Inheritance



Tags and Labels



Rule-based Configuration

Search in Setup



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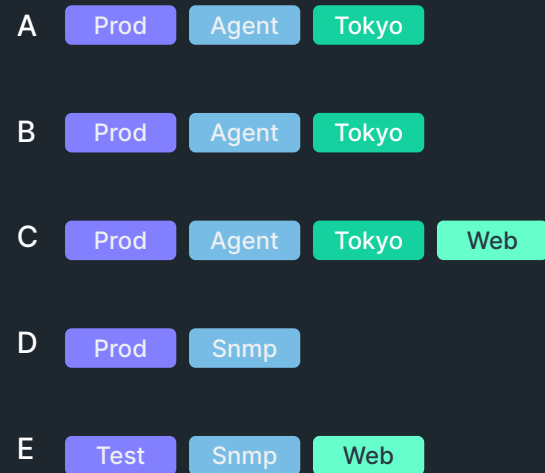
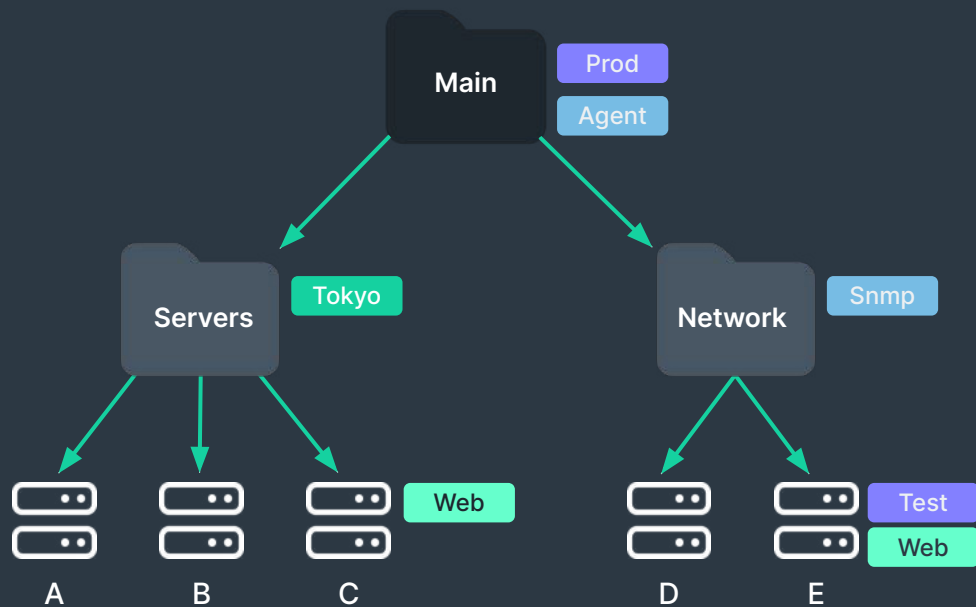
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What Is Inheritance?



What Are Tags and Labels?



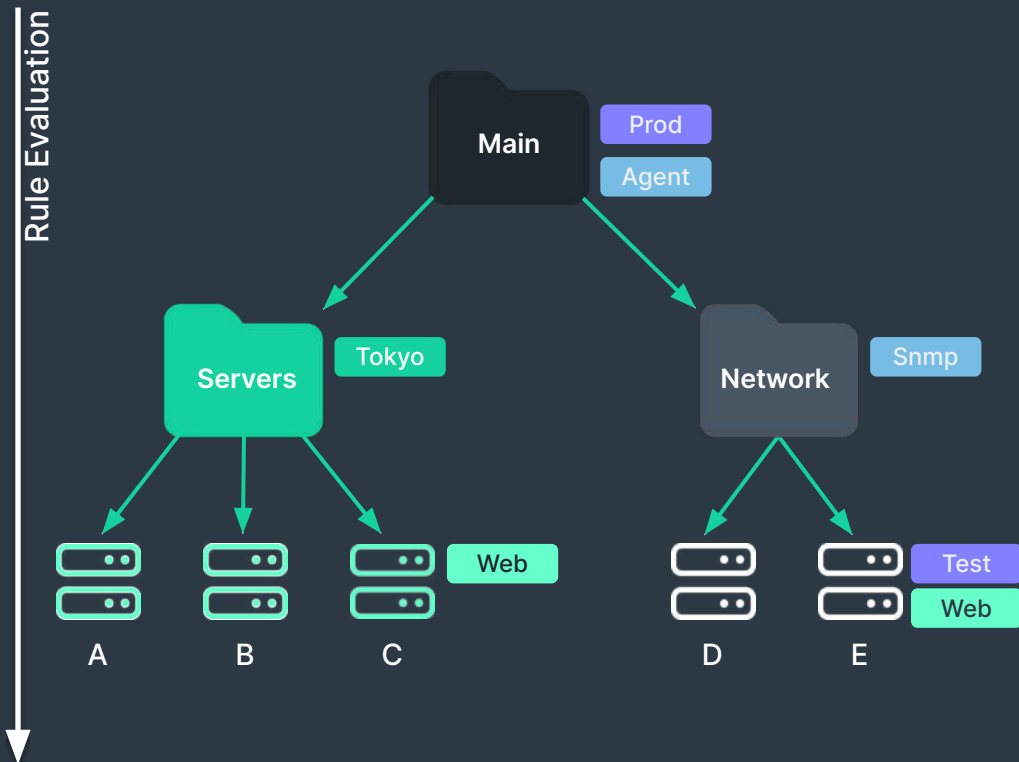
Tags are predefined, grouped properties.



Labels are dynamic key-value pairs (key-value pair).

Hosts						
x	Actions	Hostname	Monitored on site	Auth	Tags	Explicit labels
		localhost	demo_20 - Demo Instanz		<code>address_family:ip-v4-only</code> <code>piggyback:auto-piggyback</code>	<code>agent:cmk-agent</code> <code>ip-v4:ip-v4</code> <code>mydemogroup:no_os</code> <code>site:demo_20</code> <code>snmp_ds:no-snmp</code> <code>tcp:tcp</code> <code>demo:workshop</code>

What Does “Rule-Based” Mean?

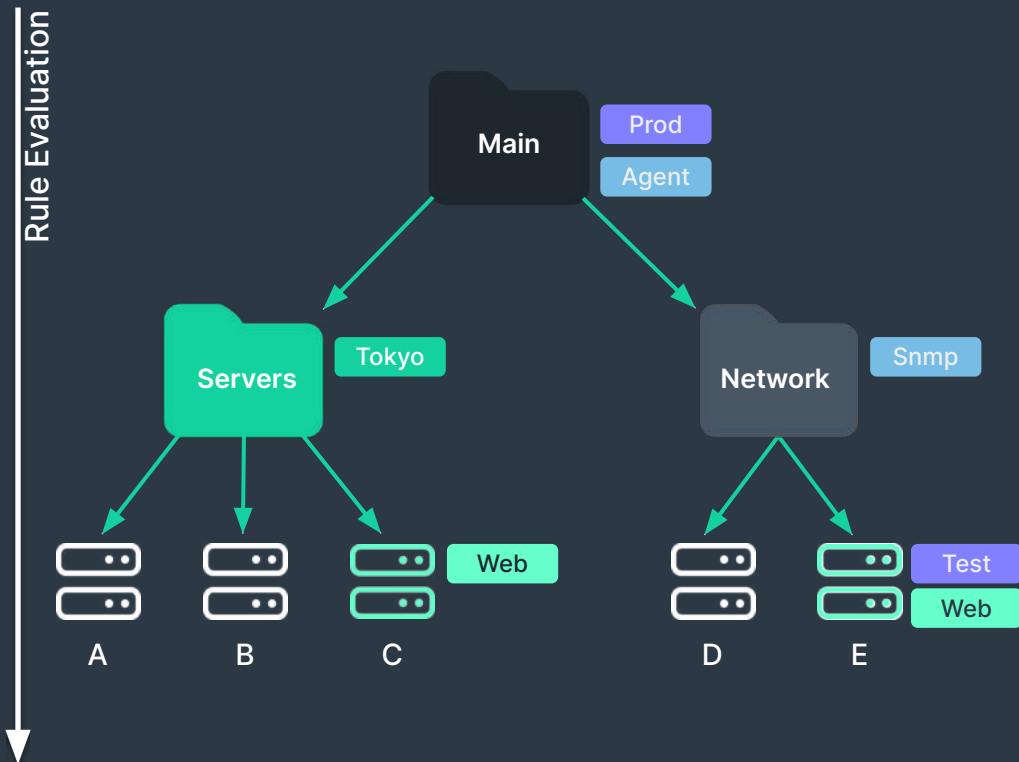


Simple use cases:

- 1. One rule for hosts in Tokyo
- 2. A rule for all web hosts
- 3. A rule for one special host

A	Prod	Agent	Tokyo	
B	Prod	Agent	Tokyo	
C	Prod	Agent	Tokyo	Web

What Does “Rule-Based” Mean?



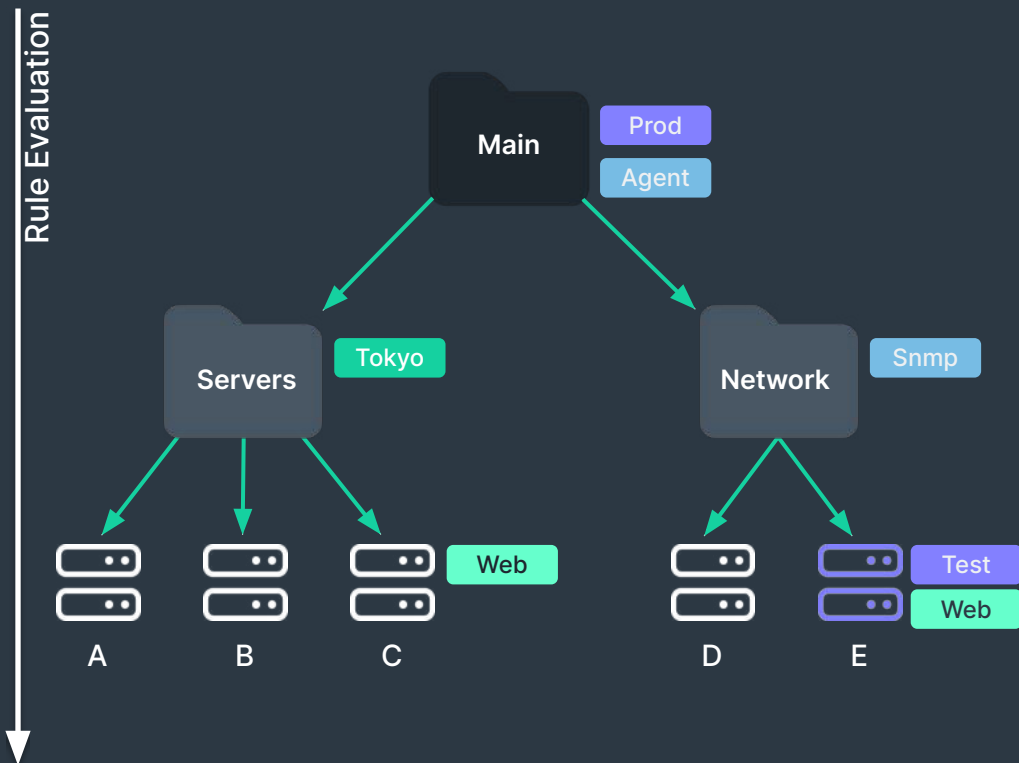
Simple use cases:

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C Prod Agent Tokyo Web

E Test Snmp Web

What Does “Rule-Based” Mean?



Simple use cases:

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E Test Snmp Web

Demo

Hosts / Services



Tags, Labels, other (e.g., built-in) Attributes



Folder & Inheritance



Hosts & Services



Data Sources: Agents, Special, SNMP, Active / Manual Checks



Auto-Config:

- Dynamic Config
- Network Scan
- APIs

The screenshot displays the Nagios XI interface with a dark theme. The main navigation menu on the left is highlighted, showing the following items:

- Hosts** (selected): Hosts, Host monitoring rules, Tags, Dynamic host management, Host groups, Custom host attributes, HWSW inventory rules
- Services: Service monitoring rules, Discovery rules, Enforced services, HTTP, TCP, Email, ... Other Services, Service groups
- Catalog of check plugins
- Business Intelligence: Business intelligence
- Agents (selected): Windows, Linux, Solaris, AIX, Other operating systems, Agent registration, VM, Cloud, Container, Other integrations, Agent access rules, SNMP rules
- Events: Notifications, Event Console, Alert handlers

The right-hand sidebar contains the following sections:

- Users**: Users, Contact groups, Roles & permissions, LDAP & Active Directory, SAML authentication, Custom user attributes
- General**: Rule search, Global settings, Read only mode, Predefined conditions, Time periods, Passwords, Distributed monitoring, Audit log, Custom icons
- Maintenance**: Backups, Licensing, Extension packages, Support diagnostics, Analyze configuration, Background jobs
- Exporter**: InfluxDB Connections

Demo

Rulesets



Rule-specific components:

- Special Agents, Active checks
- Services Thresholds
- Meta-Configuration



Conditions

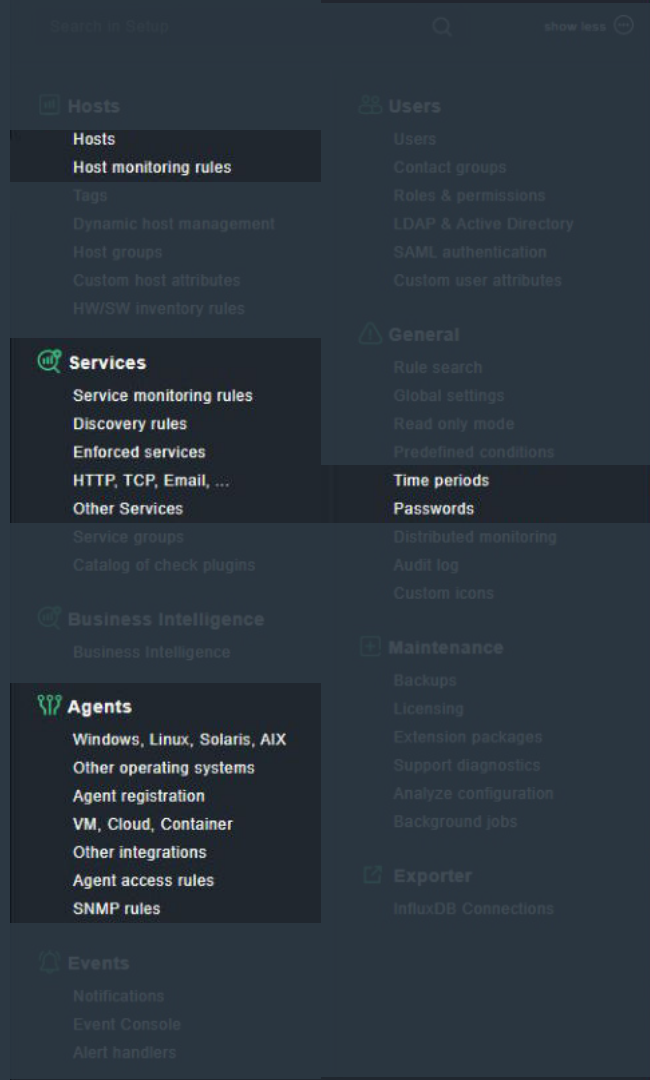
- Folder, Tags, Labels, explicit, etc.
- Predefined Conditions



Time Periods



Passwords



Demo

Users



Users

- LDAP, SAML or local
- Automation-User



Roles & Permissions

- Granular authorization management
- Derived from other roles



Contact Groups

- Regulate the responsibility of the hosts and services



Notifications

Search in Setup



show less

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Demo

Permissions

Which **objects** can the user work with?

- View, edit, create and much more

Which **functionalities** may a user work with?


- Are they allowed to create reports?
- Can they create hosts but not delete them?
- ... and much more

▼ Identity

Username (required) server-admin

Full name (required) Server Admin

Email address server@admin.cmk

Pager address 

Authorized sites All sites
May see all sites

▼ Security



Authentication Normal user login with password

password:

repeat: (optional)

Enforce change: Change password at next login or access

Automation secret for machine accounts

Disable password disable the login to this account

Idle timeout Use the global configuration ▼

Roles Administrator
 Guest user
 Normal monitoring user
 Normal monitoring with less permissions

▼ Contact Groups

Büro Deutschland
 Network Administrators
 Server Administrators

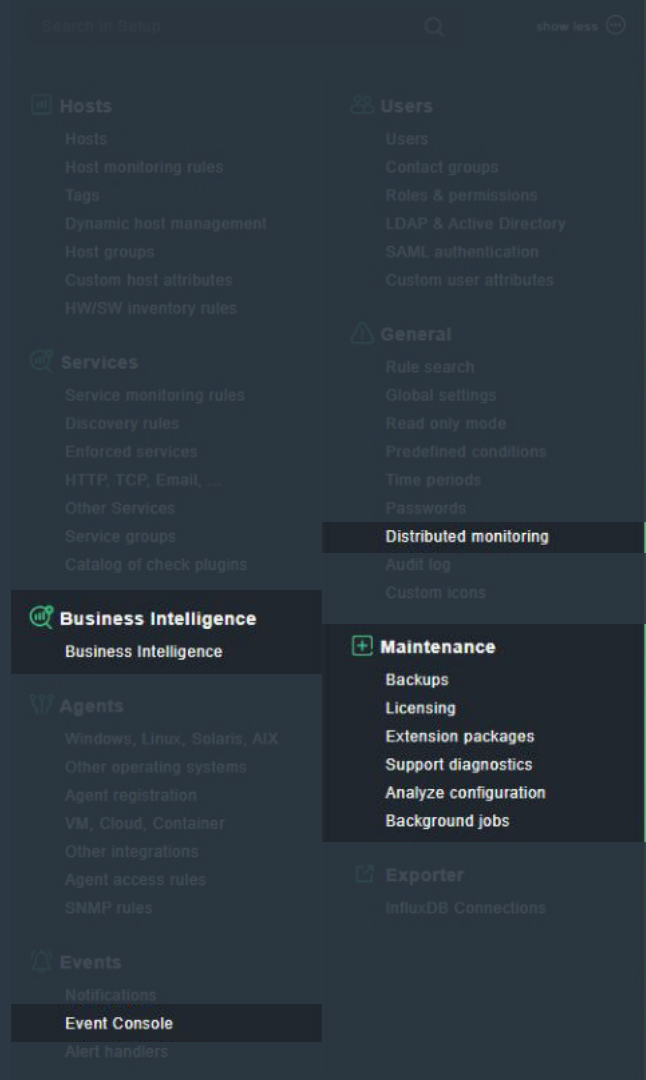
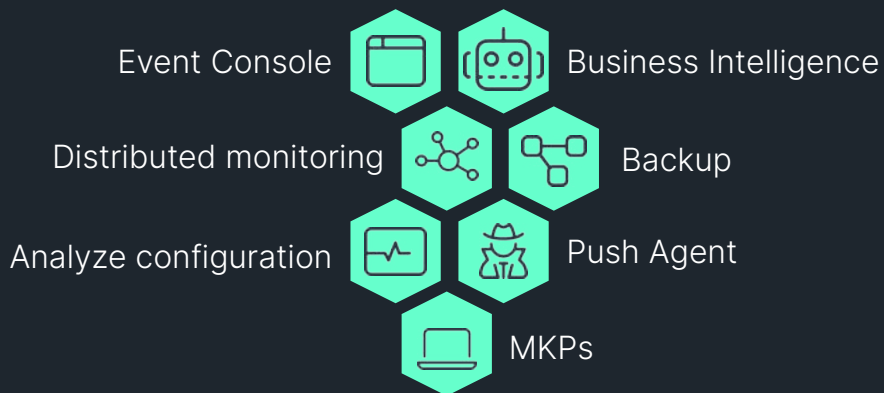
► Notifications

► Personal settings

► Interface settings







Demo

Further reading






Resources & Useful Links



-  Introduction to the configuration: docs.checkmk.com/latest/en/wato.html
-  Hosts: docs.checkmk.com/latest/en/wato_hosts.html
-  Services: docs.checkmk.com/latest/en/wato_services.html
-  Rule-configuration: docs.checkmk.com/latest/en/wato_rules.html
-  User, role and permissions: docs.checkmk.com/latest/en/wato_user.html
-  Alerting (notifications): docs.checkmk.com/latest/en/notifications.html



-  Episode 7 (Part I): Working With Rules and Setting Thresholds <https://youtu.be/WnfGMEJL1Bw>
-  Episode 7 (Part II): Smart Rules with Host Tags in Checkmk https://youtu.be/hoKtJv_-Ggs
-  Episode 7 (Part III): Managing Hosts in Folders in Checkmk <https://youtu.be/628UJYM-69Y>

The background features a dark teal color with several lighter teal hexagons scattered across it. On the left side, there are two hexagons: one is a lighter shade and is partially cut off by the edge, while the one above it is a darker shade. On the right side, there are two more hexagons: the top one is a lighter shade and is also partially cut off, and the one below it is a darker shade.

Questions?

Thank you!



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