



i-Vertix

NEW RELEASE I-VERTIX 4.2

FULLY AUTOMATED NETWORK  
DISCOVERY AND RULE SETTINGS

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# NEW Version

**New Power**  
**New Features**  
**New Experience**

## Automating Network Discovery Processes

### From discovery to inventory: Your network, fully mapped

With i-Vertex 4.2, network discovery automation has taken a significant leap forward, making it easier and more efficient to manage your environment. In previous versions, i-Vertex already provided foundational tools for detecting, monitoring, and configuring network devices like servers, switches, and routers. While these features were reliable, they often required manual input to assign categories, set up monitoring templates, and define alarm thresholds. Now these processes are almost entirely automated, ensuring faster, more reliable daily monitoring operations.

## The Key Features

### Automated Device Detection and Categorization

As new devices are detected in your network, i-Vertex automatically categorizes them based on pre-defined criteria. No more manual categorization is required – all services are automatically sorted into predefined categories like **servers**, **routers**, **switches**, and **end-user devices**. Once categorized, the system **automatically assigns the relevant monitoring templates** to the devices, reducing setup time and minimizing the chances of errors.

When, for example, you introduce a new server into your network, i-Vertex 4.2 recognizes the device as a server, assigns it the correct category, and applies the server-specific monitoring template. This allows you to monitor CPU, RAM, disk space, and network activity without any manual configuration. i-Vertex handles all of this automatically—not just for servers but for all supported devices like switches, routers, and printers. The result: Faster setup, fewer chances for errors, and a comprehensive integration of all services into the monitoring process.

### Predefined Monitoring Templates and Automated Assignment Rules

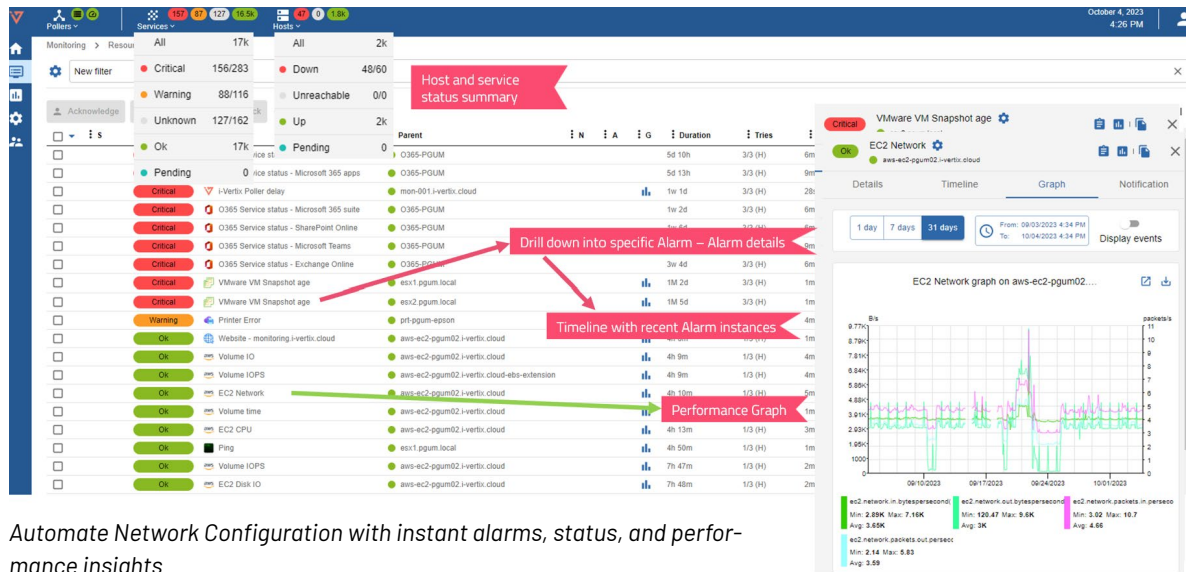
Furthermore templates have evolved beyond their basic function of assigning monitoring settings—they now serve as a **dynamic, automated management tool**. They are **intelligently assigned** to newly discovered devices and can be **automatically updated** based on changes in device configurations or new device categories such as device type, IP range or network protocols.

### The Key Benefits:

- **Automatic Adaptation:** New components are automatically detected and assigned relevant monitoring rules without manual intervention.
- **Tailored Monitoring:** Criteria based on specific properties (e.g., interface type, role) ensure only relevant metrics are tracked.
- **Scalability:** This feature is ideal for dynamic environments, like cloud or hybrid setups, where configurations frequently change.
- **Error Reduction:** Standardized, automated rules minimize human error and ensure comprehensive coverage.
- **Resource Efficiency:** Focused monitoring avoids unnecessary performance overhead.



The effect: You gain **instant visibility into potential issues with categorized, prioritized alerts**, eliminating the need for lengthy searches. You get proactive monitoring that helps you stay ahead of problems, keeping your network secure and efficient.



Automate Network Configuration with instant alarms, status, and performance insights

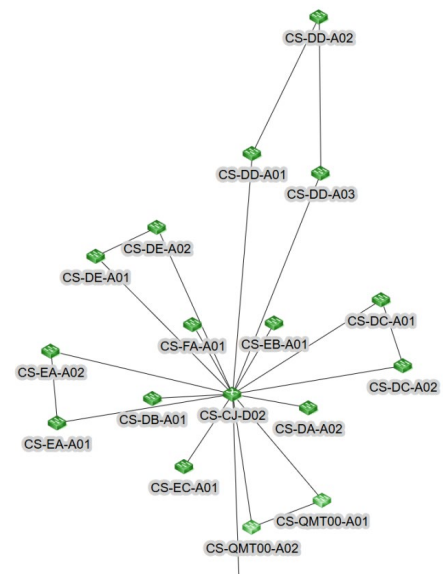
## Automated Network Topology Mapping with MAC Address Detection & Shadow IT Control

What does this look like from a high-level perspective? That's part of the new version as well. The automated network discovery process not only simplifies the addition of new services but also provides a **comprehensive view of your network's interconnections through topology mapping**.

This new feature autonomously scans your entire network, generates a comprehensive topology map, and analyzes MAC addresses to identify all connected devices—both authorized and unauthorized. It is specifically designed to detect Shadow IT, uncovering unapproved devices and applications within your infrastructure.

### The benefit you get:

- Instant Network Map:**  
 You automatically discover and visualize on a high level every device connected to your network. From servers to laptops, all are mapped using their unique **MAC addresses**, giving you a clear view of your network's structure and device relationships.
- Uncover Shadow IT:**  
 With MAC address-based identification, this feature helps you spot unauthorized devices that might be silently operating outside your control. You will know exactly who's on your network, whether you approved them or not!
- Gives you Complete Visibility:**  
 Even with complex or uncertain questions, you have full insight into the relationships within your network. No more guesswork or blind spots. Automatically updated, making network monitoring quicker, seamless, and more accurate.
- Cover Security & Compliance:**  
 Not at least, by identifying **Shadow IT** early, you ensure that your network remains secure and that you're always in line with internal policies and external regulations.



Automatically mapping all network devices using MAC addresses, spot unauthorized devices, and receive real-time alerts

## What else? A Smarter Resource Status Interface

Working with monitoring tools today means being able to quickly and intuitively configure everything you need within the user interface, making tasks more efficient and less time-consuming. To improve this experience, the GUI in version 4.2. has been significantly enhanced, with **upgrades to all filtering and editing options for a easier, more streamlined workflow**. For example, the Resource Status interface has been completely revamped. It now doesn't just highlight assets in Warning or Critical status—it also identifies the root causes, assesses their impact on the network, and provides you with actionable insights so you can respond rapidly and effectively.

### Three Views for Full Control

To further enhance this, we've improved the views and structure of the interface, making it more intuitive and easier to navigate. Additionally, we've introduced two new views, offering flexible options that align with your workflow, ensuring you can work faster and more efficiently, no matter the task at hand.

- **All Resources View:** The classic view for an all-in-one look at Hosts and Services.
- **Host View:** A focused perspective on Hosts with expandable details for linked Services.
- **Service View:** A streamlined option for monitoring service-level performance.

You'll also enjoy an improved graphical interface for setting filters, with both **Basic** and **Advanced Modes** to customize your views.

The screenshot shows the 'Resources Status' page in the monitoring tool. The search bar contains 'type: host'. The table below lists various services for the 'Vertix4-Central' host, including storage usage, network connections, and system metrics. Each row shows the service name, its status (OK or Critical), and a brief description of the issue or metric.

Host	Services	Status	Duration	Last check	Information	Time
Vertix4-Central	(19)	OK	2w 4d	37s	OK: 127.0.0.1 ms 0.187ms lost 0%	1/3 (H)
	Storage /boot	OK	3d 7h	2m 37s	OK: Storage /boot Usage Total: 1014.00 MB Used: 522.26 MB (51.51%) Free: 491.74 MB (48.49%), Access: readWrite	1/3 (H)
	Storage /var/lib/mysql	OK	4d 16h	2m 37s	OK: Storage /var/lib/mysql Usage Total: 39.90 GB Used: 1.25 GB (3.13%) Free: 38.65 GB (96.87%), Access: readWrite	1/3 (H)
	Storage /var/lib	OK	2w 3d	2m 37s	OK: Storage /var/lib Usage Total: 13.40 GB Used: 371.81 MB (2.71%) Free: 13.04 GB (97.29%), Access: readWrite	1/3 (H)
	Storage /boot/efi	OK	2w 4d	2m 37s	OK: Storage /boot/efi Usage Total: 598.81 MB Used: 5.03 MB (0.84%) Free: 593.78 MB (99.16%), Access: readWrite	1/3 (H)
	Ping	OK	2w 4d	3m 37s	OK: 127.0.0.1 ms 0.056ms lost 0%	1/3 (H)
	TCP connections	OK	2w 4d	3m 37s	OK: Total connections: 99	1/3 (H)
	Interface - ens192	OK	2w 4d	3m 37s	OK: Interface ens192 Status: up (admin. up), Traffic In: 57.95Kb/s (0.00%), Traffic Out: 63.25Kb/s (0.00%), Packets in Discard: 0.00% (0 on 3505), Packets in Error: 0.00% (0 on 3505)	1/3 (H)
	UDP connections	OK	2w 4d	3m 37s	OK: Total connections: 11	1/3 (H)
	System Load	OK	2w 4d	3m 37s	OK: Load average: 0.01 [0.02/4 CPU(s)], 0.08 [0.31/4 CPU(s)], 0.13 [0.51/4 CPU(s)]	1/3 (H)
	Disk IO	OK	2w 4d	3m 37s	OK: All devices [Read I/O: 36.32 KB/s, Write I/O: 55.37 KB/s, Read IOPs: 0.73, Write IOPs: 6.09] - Server overall [R-W I/O: 91.69 KB/s, R-W IOPs: 6.82] - All devices are ok	1/3 (H)
	Storage /var/lib/centreon	OK	2w 4d	3m 37s	OK: Storage /var/lib/centreon Usage Total: 39.90 GB Used: 496.85 MB (1.71%) Free: 39.22 GB (98.29%), Access: readWrite	1/3 (H)
	Storage /var/lib/centreon-roker	OK	2w 4d	3m 37s	OK: Storage /var/lib/centreon-roker Usage Total: 19.90 GB Used: 174.26 MB (0.84%) Free: 19.72 GB (99.14%), Access: readWrite	1/3 (H)
	CPU	OK	2w 4d	3m 37s	OK: 4 CPU(s) average usage is 1.23 %	1/3 (H)
	Swap	OK	2w 4d	3m 37s	OK: Swap Total: 5.00 GB Used: 0.00 B (0.00%) Free: 5.00 GB (100.00%)	1/3 (H)
	Memory	OK	2w 4d	3m 37s	OK: Ram Total: 7.47 GB Used: (buffers/cache): 2.45 GB (32.75%) Free: 5.03 GB (67.25%), Buffer: 5.18 MB, Cached: 3.34 GB, Shared: 410.79 MB	1/3 (H)
	CPU detailed	OK	2w 4d	3m 37s	OK: CPU Usage: User 1.74 %, Nice 0.00 %, System 1.00 %, Idle 97.11 %, Wait 0.01 %, Kernel 0.00 %, Interrupt 0.10 %, Soft Irq 0.04 %, Steal 0.00 %, Guest 0.00 %, Guest Nice 0.00 %	1/3 (H)
	NTP	OK	2w 4d	3m 37s	OK: Time offset 0 seconds(s); Local Time : 2024-10-08T16:36:01 (+0200)	1/3 (H)
	Storage /	OK	2w 4d	3m 37s	OK: Storage / Usage Total: 29.99 GB Used: 9.57 GB (28.60%) Free: 21.41 GB (71.40%), Access: readWrite	1/3 (H)
	Uptime	OK	2w 4d	3m 37s	OK: System uptime is: 22d 5h 5m 47s, Linux i-Vertix4-Central installation test 5.15.0-205.149.5.1.el8_k8s_64 #2 SMP Fri Apr 5 12:44:45 PDT 2024 x86_64	1/3 (H)
esx-dev-pgum.local	(9) (2)	OK	2w 4d	37s	OK - 10.10.10.23 rta 0.358ms lost 0%	1/3 (H)

Status with view by service

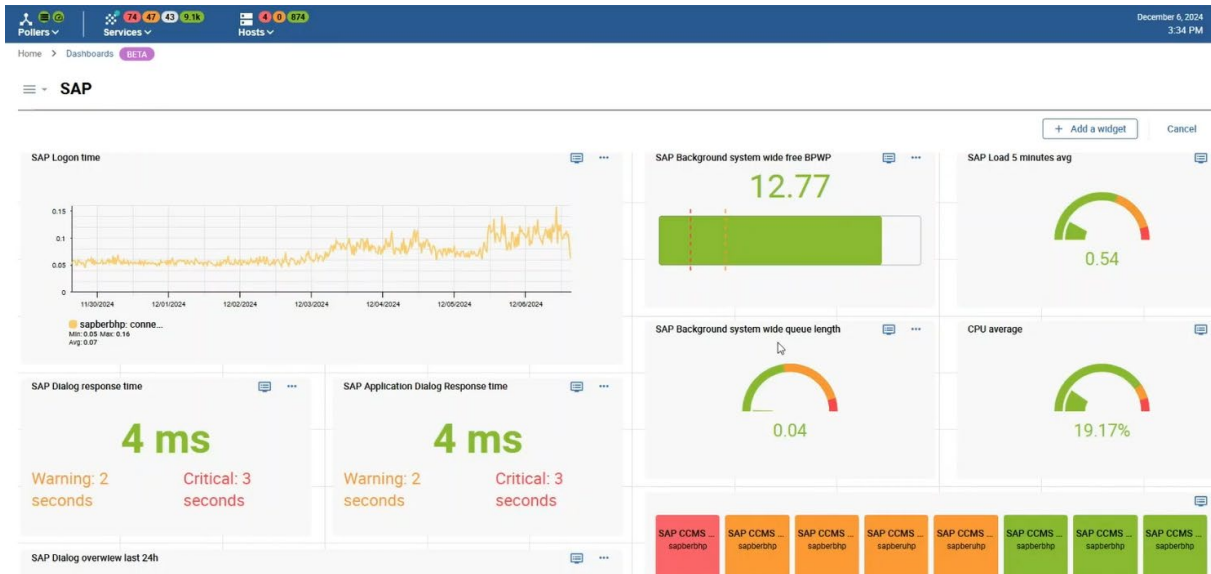
The screenshot shows the 'Resources Status' page with the search bar set to 'type: service,metastore'. The table displays a list of services across different hosts, including VMware Host Services, VM Snapshots, VM Swap, VM Memory, VM CPU, VM Host Memory, and various Datastore IO metrics. The status of each service is indicated by a colored icon (OK or Critical).

Status	Service	Host	Duration	Last check	Information	Time
Critical	VMware Host Services	esx-dev-pgum.local	2w 4d	4m 7s	CRITICAL: Host esx-dev-pgum.local: service CIM Server [policy on][running] - service VMware vCenter Agent [policy on][running] - service vSphere Manager [policy on][running]	3/3 (H)
Critical	VMware VM Snapshotage	esx-dev-pgum.local	2w 4d	4m 7s	CRITICAL: Snapshots for VM older than 28 days: [Keycloak] [Linux OLS attack] [Windows 2022 attack] [Vertix3-logdemo] [Vertix3-12-04] [Vertix4-81-04] [Vertix4-81-04]	3/3 (H)
OK	VMware VM Swap	i-Vertix4-TAM	1h 51m	1m 13s	OK: Virtual machine i-Vertix4-TAM [annotation: ] - [connection state connected][power state poweredOn], Swap In: 0.00 B/s, Swap Out: 0.00 B/s	1/3 (H)
OK	VMware VM Memory	i-Vertix4-Bi-heat	3h 38m	3m 13s	OK: Virtual machine i-Vertix4-Bi-heat [annotation: ] - [connection state connected][power state poweredOn], Memory consumed Usage Total: 0.00 GB Used: 7.81 ...	1/3 (H)
OK	VMware Host Memory	esx-dev-pgum.local	3h 44m	4m 13s	OK: Host esx-dev-pgum.local: status: connected, Memory consumed Usage Total: 127.91 GB Used: 83.29 GB (65.11%) Free: 44.62 GB (34.89%), Memory Over...	1/3 (H)
OK	VMware Datastore usage esx-dev-local-raid5-01	esx-dev-pgum.local	7h 10m	13s	OK: Datastore i-lex-dev-local-raid5-01: accessible 1, Usage Total: 1.95 TB Used: 1.14 TB (58.55%) Free: 832.86 GB (41.65%), Provisioned: 3.55 TB (181.61%)	1/3 (H)
OK	VMware VM Memory	i-Vertix-Build	11h 21m	1m 13s	OK: Virtual machine i-Vertix-Build [annotation: ] - [connection state connected][power state poweredOn] - Memory consumed Usage Total: 2.00 GB Used: 1.70 GB ...	1/3 (H)
OK	VMware VM CPU	i-Vertix-Build	12h 17m	2m 13s	OK: Virtual machine i-Vertix-Build: [connection state connected][power state poweredOn] - cpu total average: 0.38 %, 18.00 MHz, ready 0.07 % - All CPUs are ok	1/3 (H)
OK	VMware VM Swap	i-Vertix-Build	12h 48m	2m 13s	OK: Virtual machine i-Vertix-Build: [annotation: ] - [connection state connected][power state poweredOn], Swap In: 0.00 B/s, Swap Out: 0.00 B/s	1/3 (H)
OK	VMware Datastore IO esx-dev-local-raid5-01	esx-dev-pgum.local	22h 44m	4m 13s	OK: Total rate of reading data: 0.00 B/s, Total rate of writing data: 0.00 B/s	1/3 (H)
OK	VMware Datastore IO esx-dev-local-raid5-01	esx-dev-pgum.local	2d 1h	2m 13s	OK: Total read: 0.4 kops, write: 35.6 kops - Datastore i-lex-dev-local-raid5-01: accessible true - 0.4 read ops, 35.6 write ops	1/3 (H)
OK	VMware VM CPU	i-Vertix4-TAM	2d 5h	1m 13s	OK: Virtual machine i-Vertix4-TAM: [connection state connected][power state poweredOn] - cpu total average: 0.68 %, 32.00 MHz, ready 0.00 % - All CPUs are ok	1/3 (H)
OK	VMware Host Memory	esx-dev-pgum.local	2d 12h	13s	OK: 14 VM(s) poweredOn, 8 VM(s) poweredOff, 0 VM(s) suspended - Datastore esx-dev-local-raid5-01: accessible true, 14 VM(s) poweredOn, 8 VM(s) poweredOff...	1/3 (H)
OK	VMware Host NTP	esx-dev-pgum.local	3d 28m	2m 13s	OK: Host esx-dev-pgum.local: status connected, time offset 0 seconds(s); 2024-10-08T14:47:39.225077Z	1/3 (H)
OK	VMware VM Th provisioning	keycloak	3d 5h	4m 13s	OK: Th provisioning virtual disks are ok	1/3 (H)

Status with view by service

## Redesigned Dashboards

Say hello also to a completely new dashboard experience! We've designed an interface that simplifies creating, configuring, and sharing custom dashboards.



The main improvements include:

- **Flexible widget positioning:** No more fixed columns—arrange widgets how you like.
- **Responsive design:** Dashboards that look great on any device.
- **Streamlined setup:** Quickly create and configure widgets with ease.
- **A dashboard library:** Manage your dashboards with a clear, tile-based interface.
- **Role-based sharing:** Assign admin, editor, or viewer roles for collaboration.
- **Automatic display rotation:** Perfect for monitoring walls.


Future updates will include templates, drill-down interactivity, and more exciting features.

## Monitoring API Enhancements

Last but not least, i-Vertex now also offers a **REST API v2 integration**, providing even more flexibility and powerful communication with external applications and tools. This standardized interface allows you to programmatically access and modify monitoring data such as performance metrics, alarms, and configurations.

### The i-Vertex REST API v2 integration includes:

- **Automation:** Tasks like retrieving data, adjusting settings, or triggering actions based on alerts can now be fully automated.
- **Flexibility and Scalability:** The API easily integrates with various systems and can scale to handle increasing data volumes and more complex infrastructures.
- **Real-Time Interaction:** i-Vertex enables immediate responses to network issues and faster adjustments to prevent performance degradation.
- **Easy Integration:** The API is cross-platform compatible and can be seamlessly integrated into existing systems and applications.



This means you can now manage and automate:

- **Hosts:** Create, delete, update, and assign groups.
- **Host categories and severities:** Retrieve and update effortlessly.
- **Services:** Add, remove, or modify to match your needs.
- **Templates and commands:** Full control over key configurations.
- **Tokens:** Create and manage access tokens with ease.
- These updates make it even easier to embed i-Vertex in your IT automation workflows.

## Ready to Explore i-Vertex 4.2?

With its user-friendly enhancements, advanced automation capabilities, and focus on intuitive network visibility, i-Vertex IT Monitoring 4.2 is here to redefine what IT monitoring can do. But this is just a preview—get in touch to discover all the details and unlock the full power.

### Want to see it in action?

Contact us at [sales@i-vertex.com](mailto:sales@i-vertex.com), and let's discover how these features can transform your IT operations.