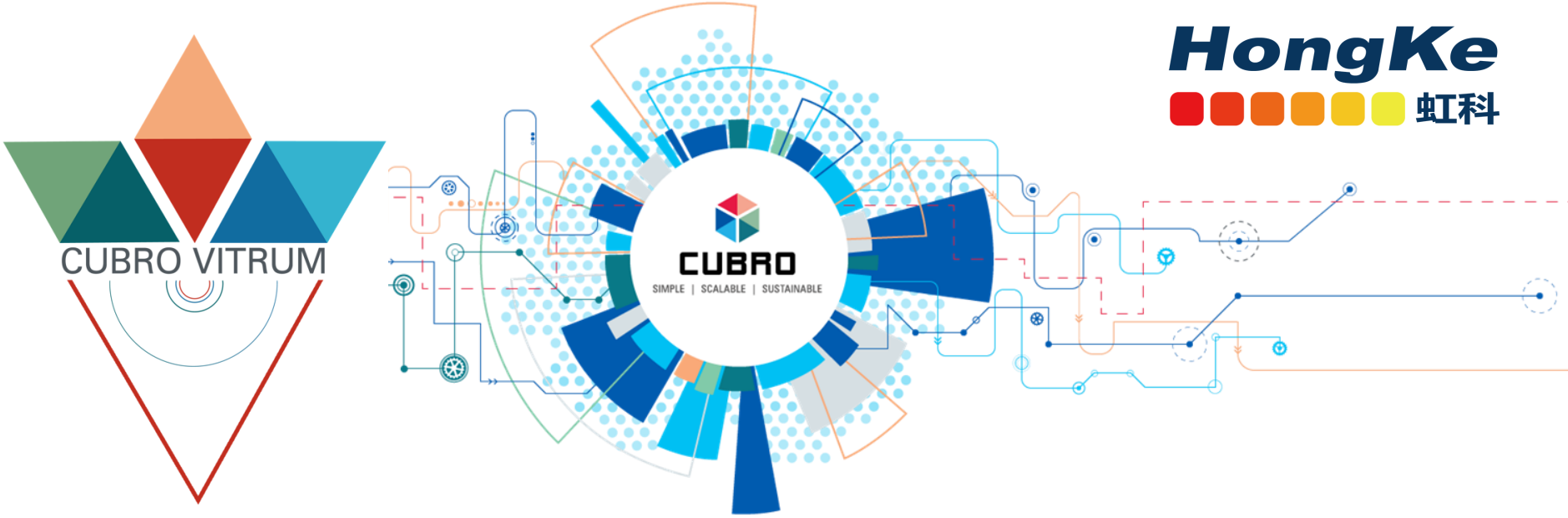


HongKe 虹科

Cubro Vitrum - Cubro Packetmasters的要素管理员

Feb 2020

目录

1 Vitrum特点和功能

2 Vitrum架构

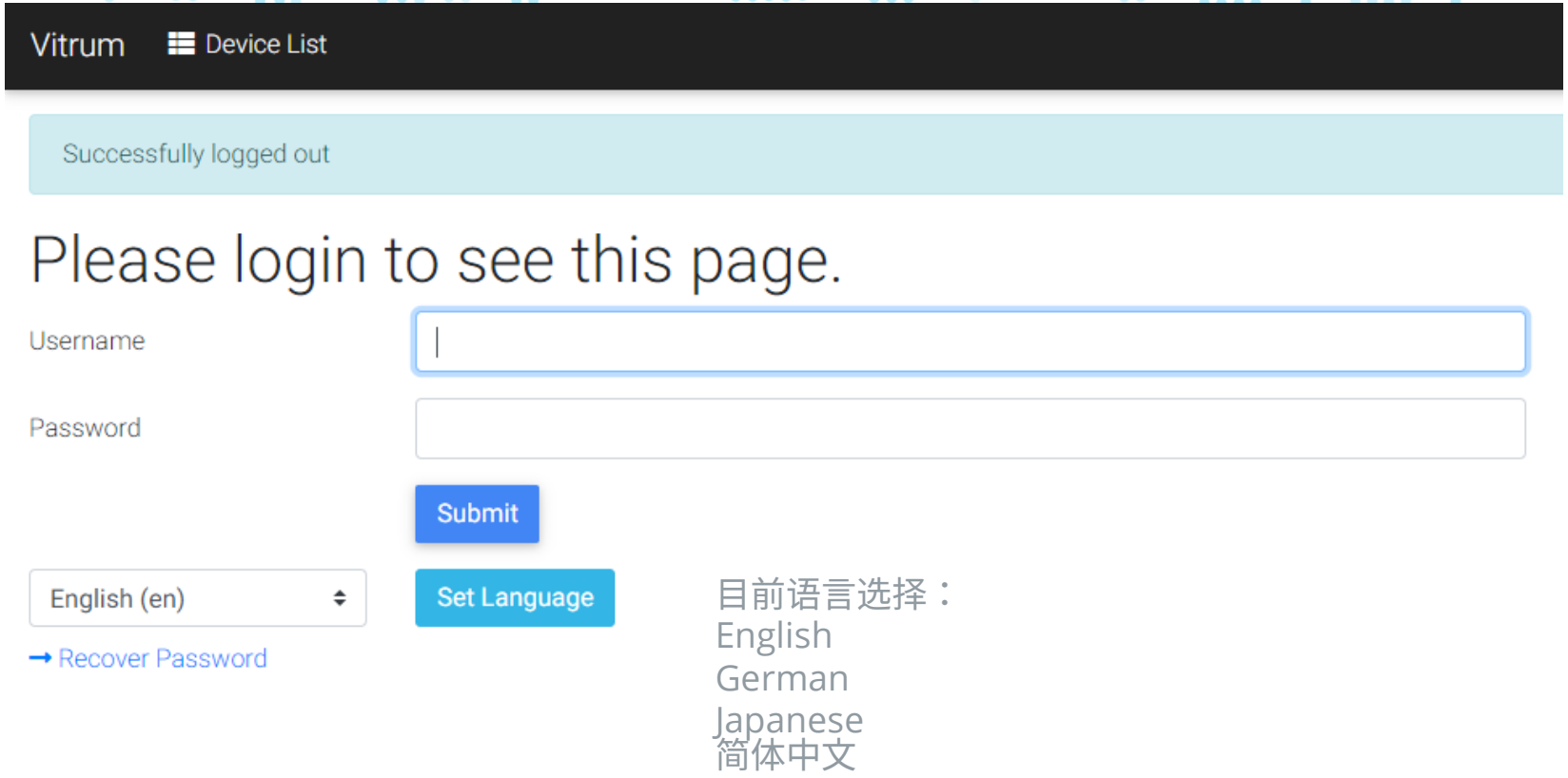
3 Vitrum效益

Vitrum概览

集中管理Cubro Packetmasters

- 发现Cubro设备
- 设备浏览器，带drill-in和统计功能
- 网络地图和可视化
- 报警监控
- 备份和固件升级，用户管理

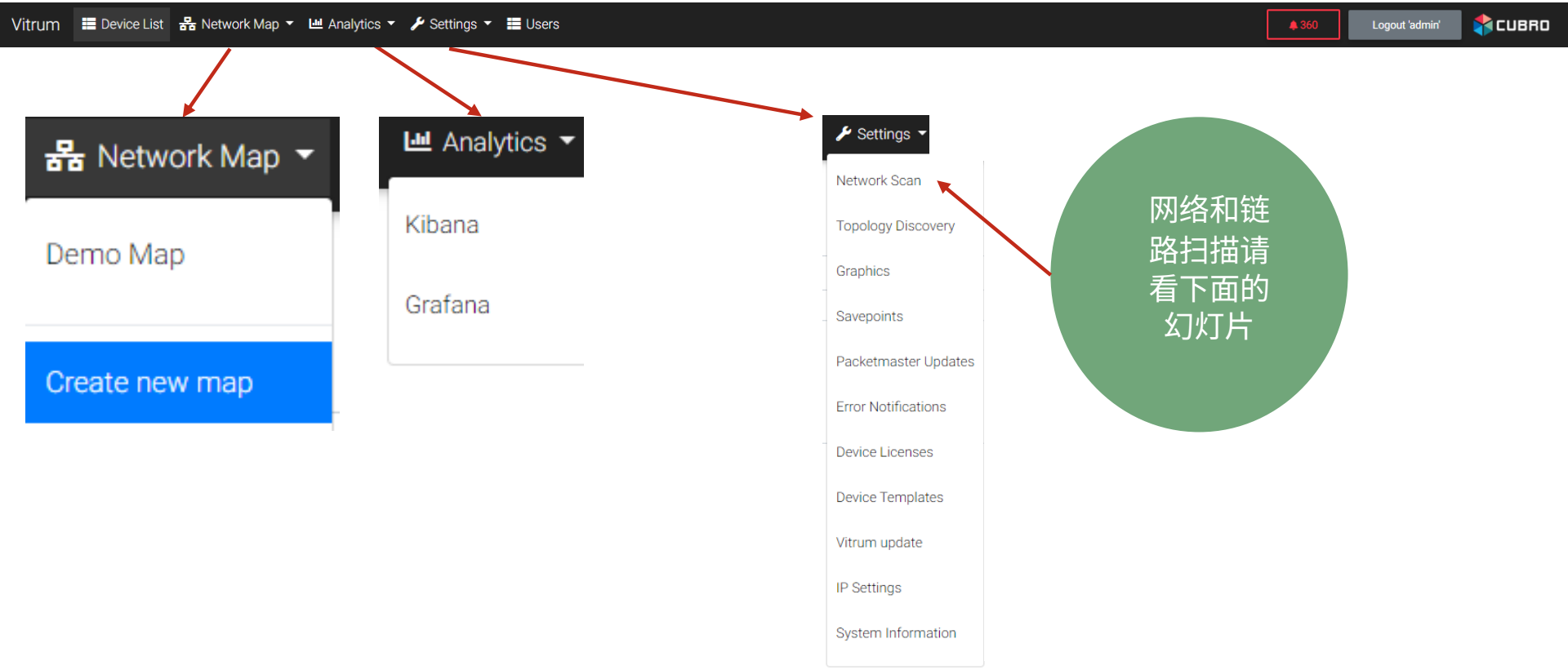
登录


Vitrum
Device List
Successfully logged out
Please login to see this page.
Username
Password
Submit
English (en)
Set Language
Recover Password
目前语言选择：
English
German
Japanese
简体中文

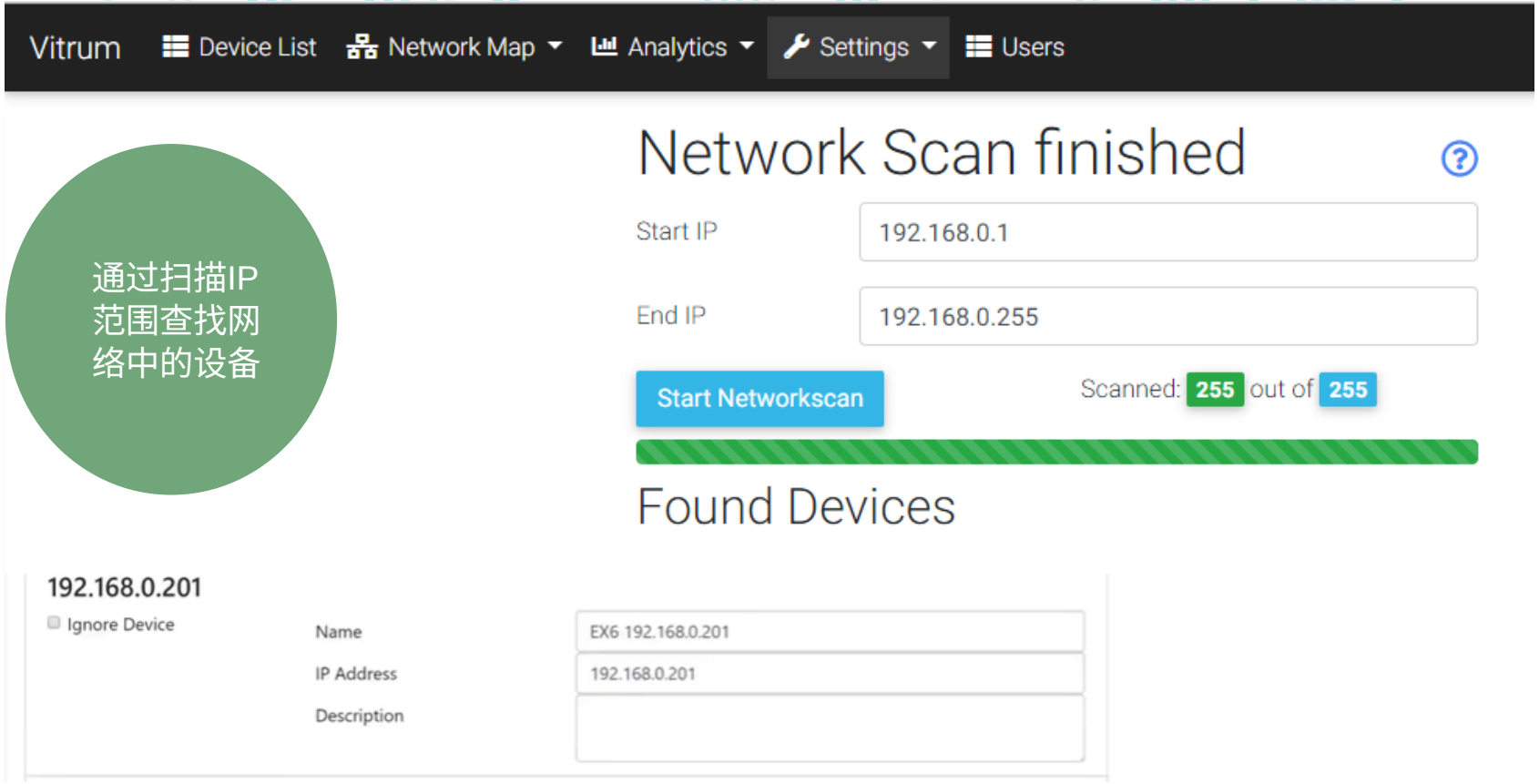
欢迎界面

Vitrum
Device List
Network Map
Analytics
Settings
Users
359
Logout 'admin'
CUBRO
System Information
Device licensing status
10 licensed
0 unlicensed
Devices online
10 online
0 offline
0 N/A
Error Notifications
11 ok
11 new
348 past
0 acknowledged
Scheduled upgrades
0
Vitrum CPU usage
5.46% used
94.52% free
Vitrum RAM usage
3535 MB used
387 MB free
Vitrum Disk usage
5.52 GB used
827.77 GB free
Savepoints
0
Map: Demo Map

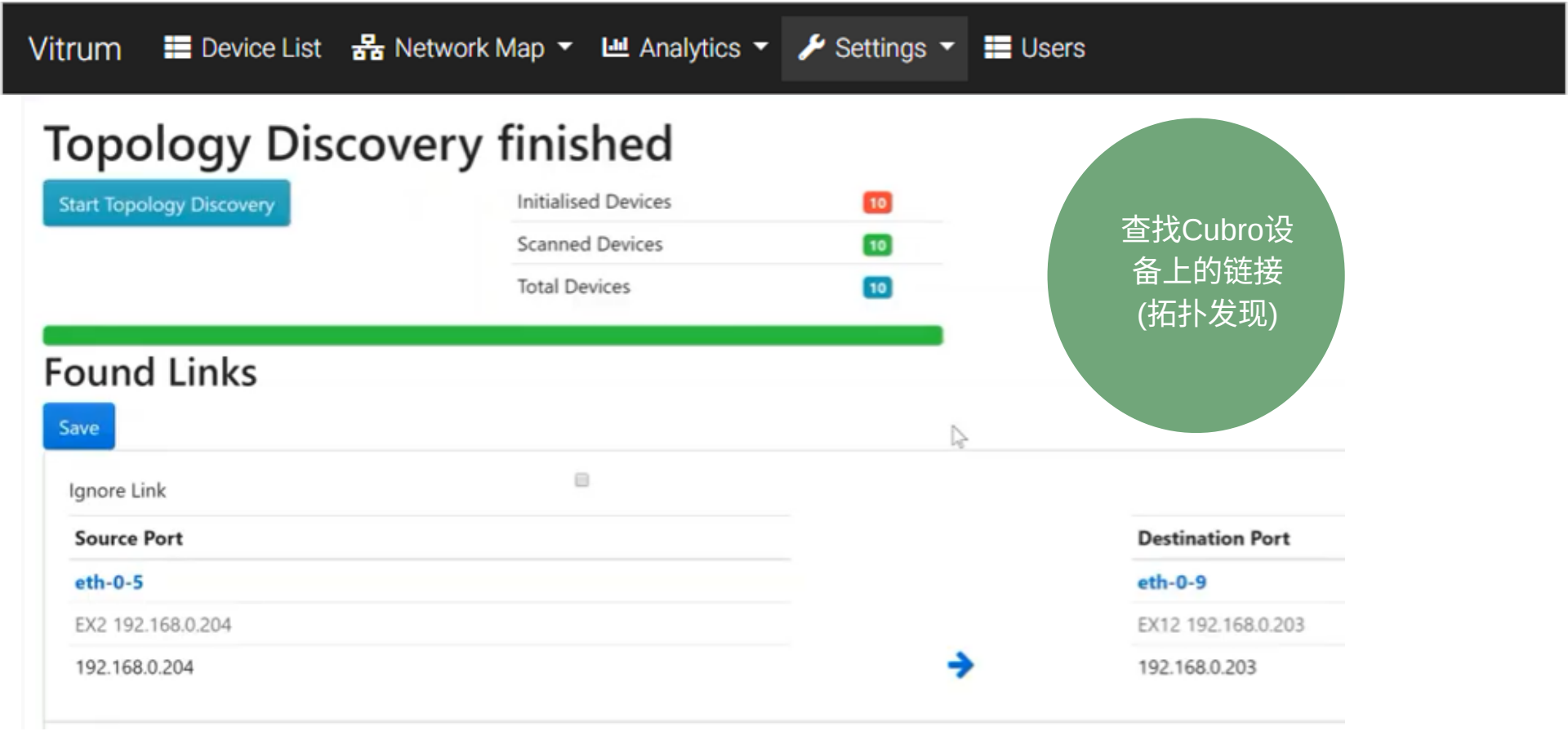
导航地图


Vitrum
Device List
Network Map
Analytics
Settings
Users
360
Logout 'admin'
CUBRO
Network Map
Demo Map
Create new map
Analytics
Kibana
Grafana
Settings
Network Scan
Topology Discovery
Graphics
Savepoints
Packetmaster Updates
Error Notifications
Device Licenses
Device Templates
Vitrum update
IP Settings
System Information
网络和链路扫描请看下面的幻灯片

网络发现 - 设备

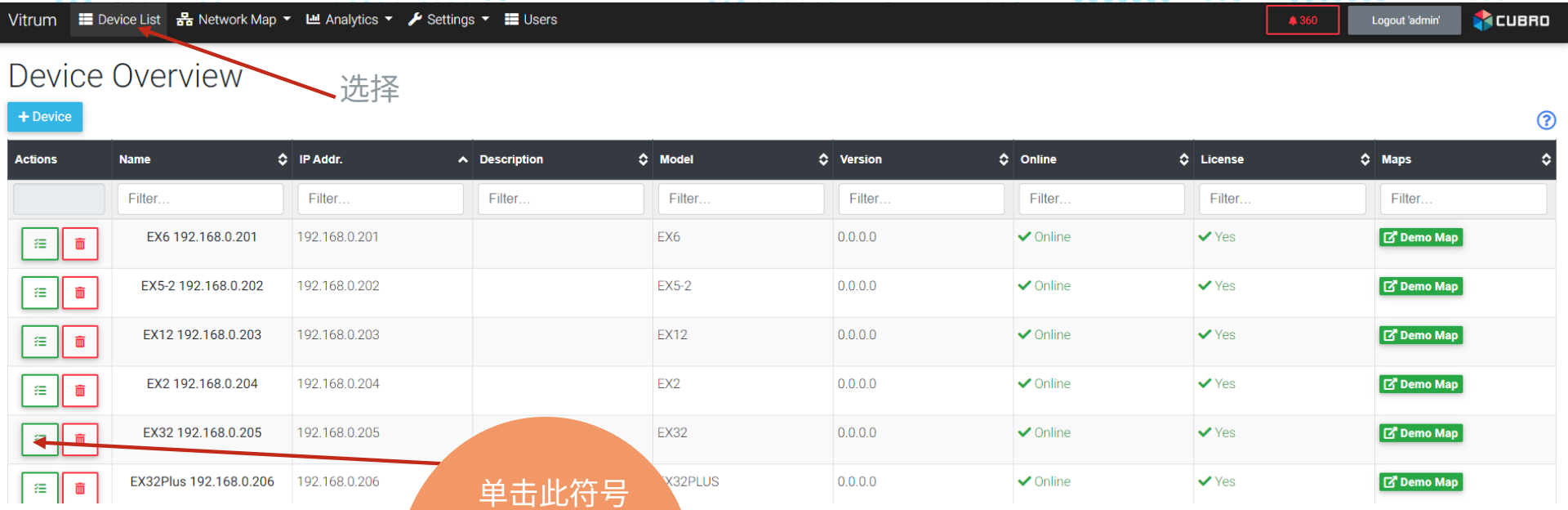

Vitrum
Device List
Network Map
Analytics
Settings
Users
通过扫描IP范围查找网络中的设备
Network Scan finished
Start IP
192.168.0.1
End IP
192.168.0.255
Start Networkscan
Scanned: 255 out of 255
Found Devices
192.168.0.201
Ignore Device
Name
EX6 192.168.0.201
IP Address
192.168.0.201
Description

网络发现 - 链接

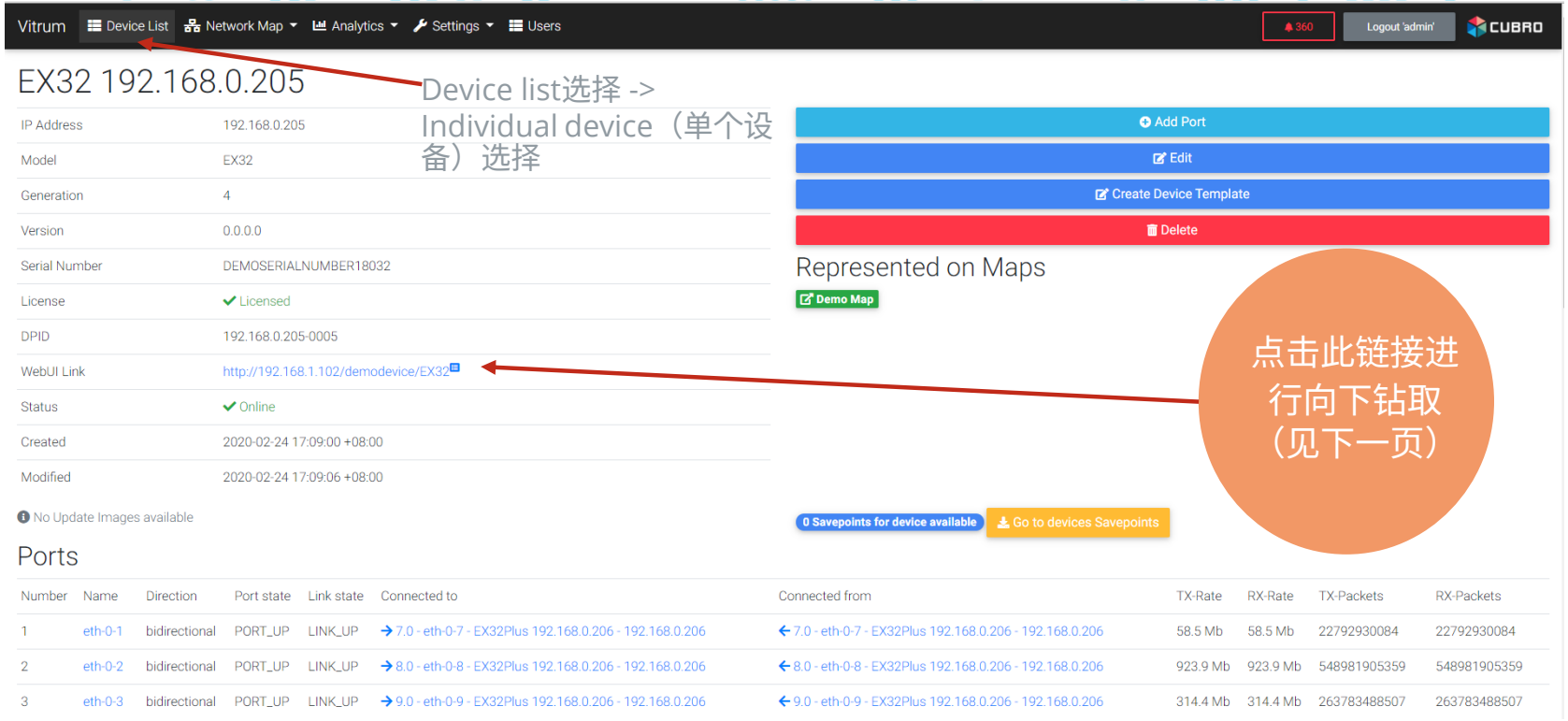


查找Cubro设备上的链接(拓扑发现)

设备浏览器


Vitrum
Device List
Network Map
Analytics
Settings
Users
360
Logout 'admin'
CUBRO
Device Overview
选择
+ Device
Actions
Name
IP Addr.
Description
Model
Version
Online
License
Maps
Filter...
EX6 192.168.0.201
192.168.0.201
EX6
0.0.0.0
Online
Yes
Demo Map
EX5-2 192.168.0.202
192.168.0.202
EX5-2
0.0.0.0
Online
Yes
Demo Map
EX12 192.168.0.203
192.168.0.203
EX12
0.0.0.0
Online
Yes
Demo Map
EX2 192.168.0.204
192.168.0.204
EX2
0.0.0.0
Online
Yes
Demo Map
EX32 192.168.0.205
192.168.0.205
EX32
0.0.0.0
Online
Yes
Demo Map
EX32Plus 192.168.0.206
192.168.0.206
X32PLUS
0.0.0.0
Online
Yes
Demo Map
单击此符号可查看详细的端口状态、统计和链接信息。

设备浏览器 – 设备详情


Vitrum
Device List
Network Map
Analytics
Settings
Users
360
Logout 'admin'
CUBRO
EX32 192.168.0.205
Device list选择 -> Individual device（单个设备）选择
IP Address 192.168.0.205
Model EX32
Generation 4
Version 0.0.0.0
Serial Number DEMOSERIALNUMBER18032
License Licensed
DPID 192.168.0.205-0005
WebUI Link http://192.168.1.102/demodevice/EX32
Status Online
Created 2020-02-24 17:09:00 +08:00
Modified 2020-02-24 17:09:06 +08:00
No Update Images available
Add Port
Edit
Create Device Template
Delete
Represented on Maps
Demo Map
点击此链接进行向下钻取（见下一页）
0 Savepoints for device available
Go to devices Savepoints
Ports
Number Name Direction Port state Link state Connected to Connected from TX-Rate RX-Rate TX-Packets RX-Packets
1 eth-0-1 bidirectional PORT_UP LINK_UP 7.0 - eth-0-7 - EX32Plus 192.168.0.206 - 192.168.0.206 7.0 - eth-0-7 - EX32Plus 192.168.0.206 - 192.168.0.206 58.5 Mb 58.5 Mb 22792930084 22792930084
2 eth-0-2 bidirectional PORT_UP LINK_UP 8.0 - eth-0-8 - EX32Plus 192.168.0.206 - 192.168.0.206 8.0 - eth-0-8 - EX32Plus 192.168.0.206 - 192.168.0.206 923.9 Mb 923.9 Mb 548981905359 548981905359
3 eth-0-3 bidirectional PORT_UP LINK_UP 9.0 - eth-0-9 - EX32Plus 192.168.0.206 - 192.168.0.206 9.0 - eth-0-9 - EX32Plus 192.168.0.206 - 192.168.0.206 314.4 Mb 314.4 Mb 263783488507 263783488507

设备浏览器– 设备向下钻取(drill-down)

EX32plus "Demo EX32+" Rule Table Add Rule Group Table Add Group Save-Points Apps Ports Device CUBRO

EX32plus "Dem

Export Table as CSV

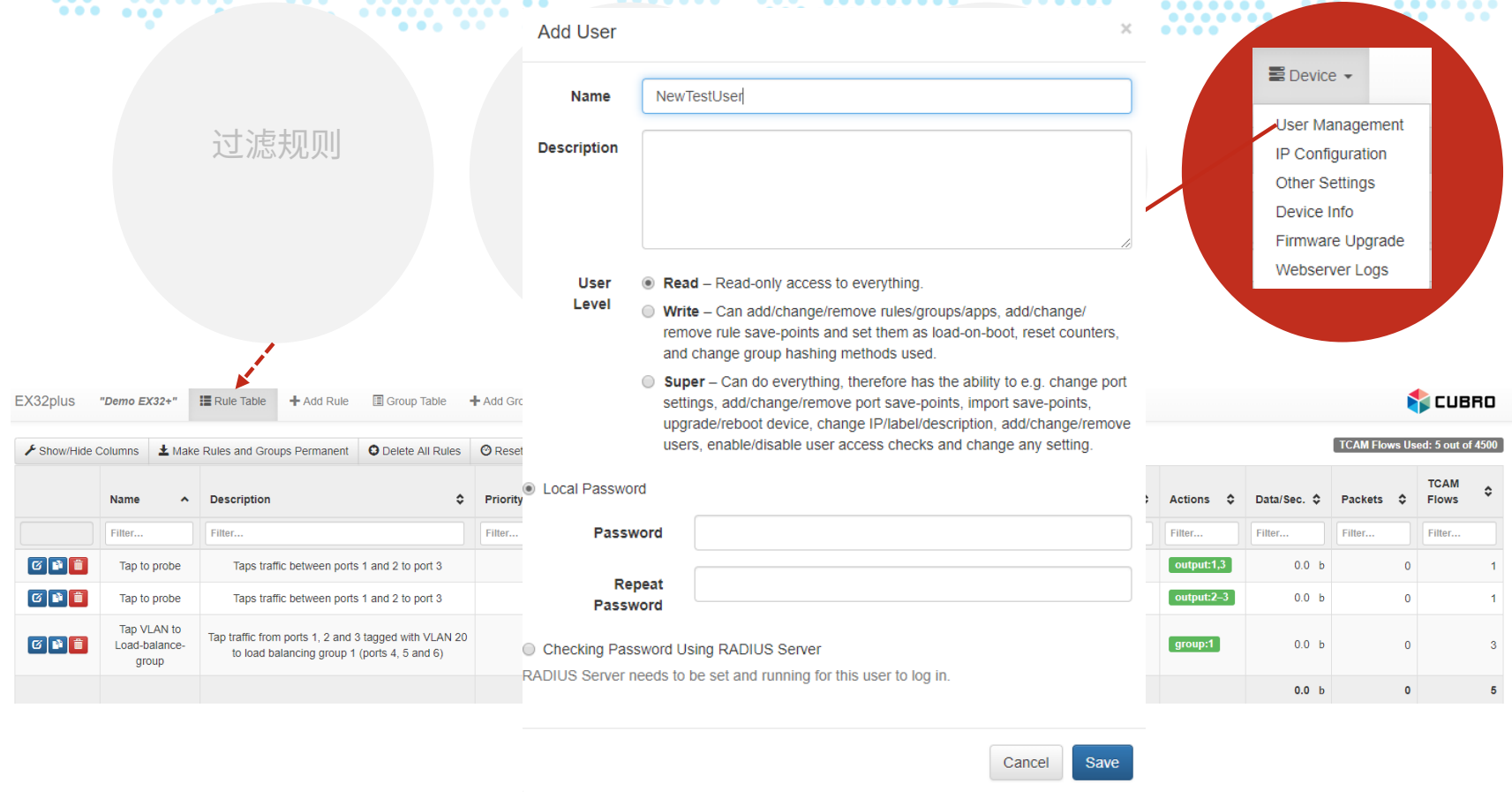
Show/Hide Colum

Port Number	Interface Name	Description	Port Status	Link Status	Duplex	Speed
Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...
1	eth-0-1		PORT_UP	LINK_UP	full (auto)	1000 (1000Mb)
2	eth-0-2		PORT_UP	LINK_UP	full (auto)	1000 (1000Mb)

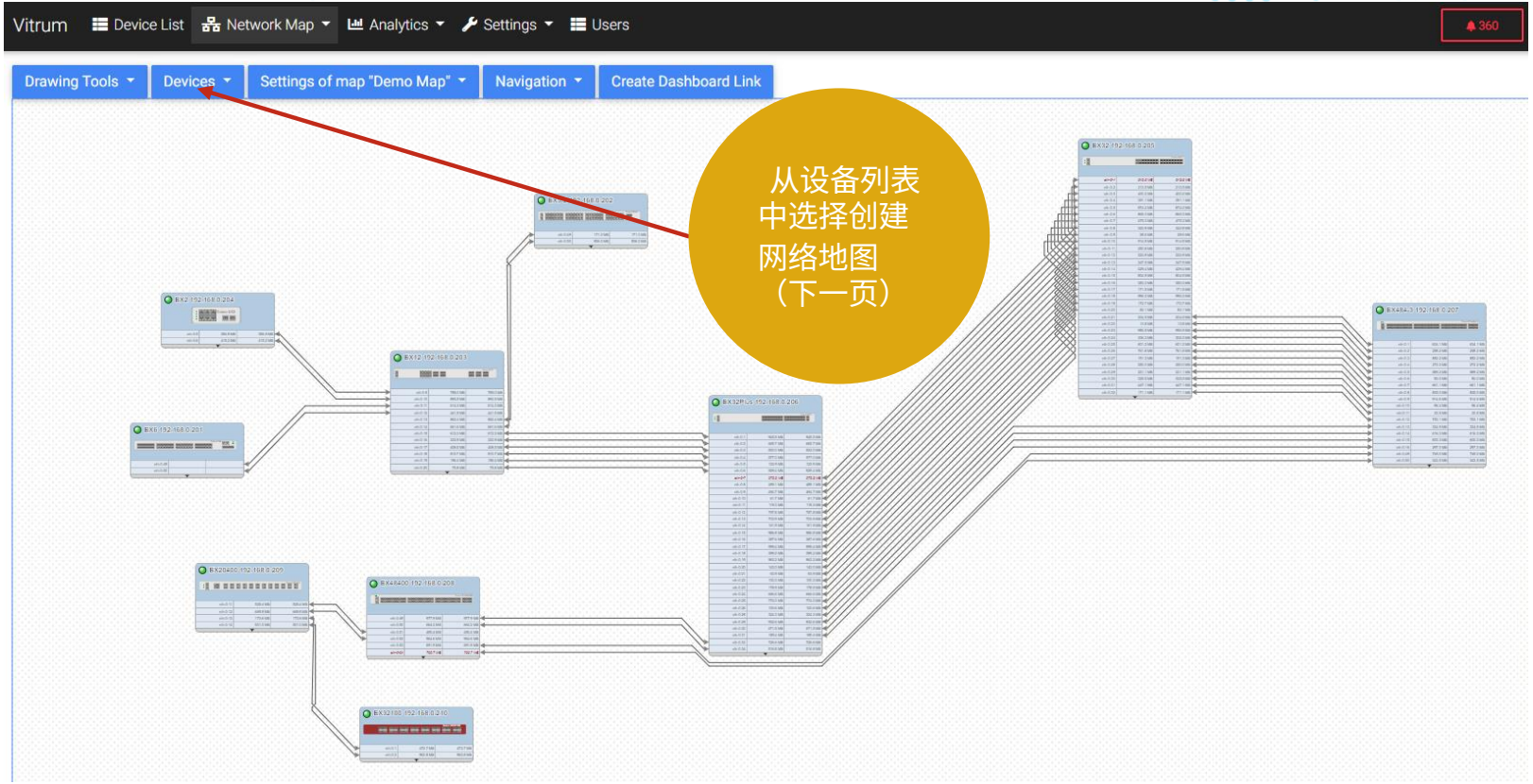
Nar														
Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...	Filter...
Tap to probe	Taps traffic between ports 1 and 2 to port 3	32768	2							output:1,3	0.0 b	0	1
Tap to probe	Taps traffic between ports 1 and 2 to port 3	32768	1							output:2–3	0.0 b	0	1
Tap VLAN to Load-balance-group	Tap traffic from ports 1, 2 and 3 tagged with VLAN 20 to load balancing group 1 (ports 4, 5 and 6)	32768	1-3		VLAN present, ID: 20					group:1	0.0 b	0	3
											0.0 b	0	5

设备浏览器 – 用户管理

过滤规则



网络GUI


Vitrum
Device List
Network Map
Analytics
Settings
Users
360
Drawing Tools
Devices
Settings of map "Demo Map"
Navigation
Create Dashboard Link
从设备列表中选择创建网络地图（下一页）

网络GUI – 从设备中选择

Devices

Search...

Sort by Generation and Model

EX6 192.168.0.201
(IP: 192.168.0.201)

EX12 192.168.0.203
(IP: 192.168.0.203)

EX5-2 192.168.0.202
(IP: 192.168.0.202)

EX2 192.168.0.204
(IP: 192.168.0.204)

EX20400
192.168.0.209
(IP: 192.168.0.209)

EX32 192.168.0.205
(IP: 192.168.0.205)

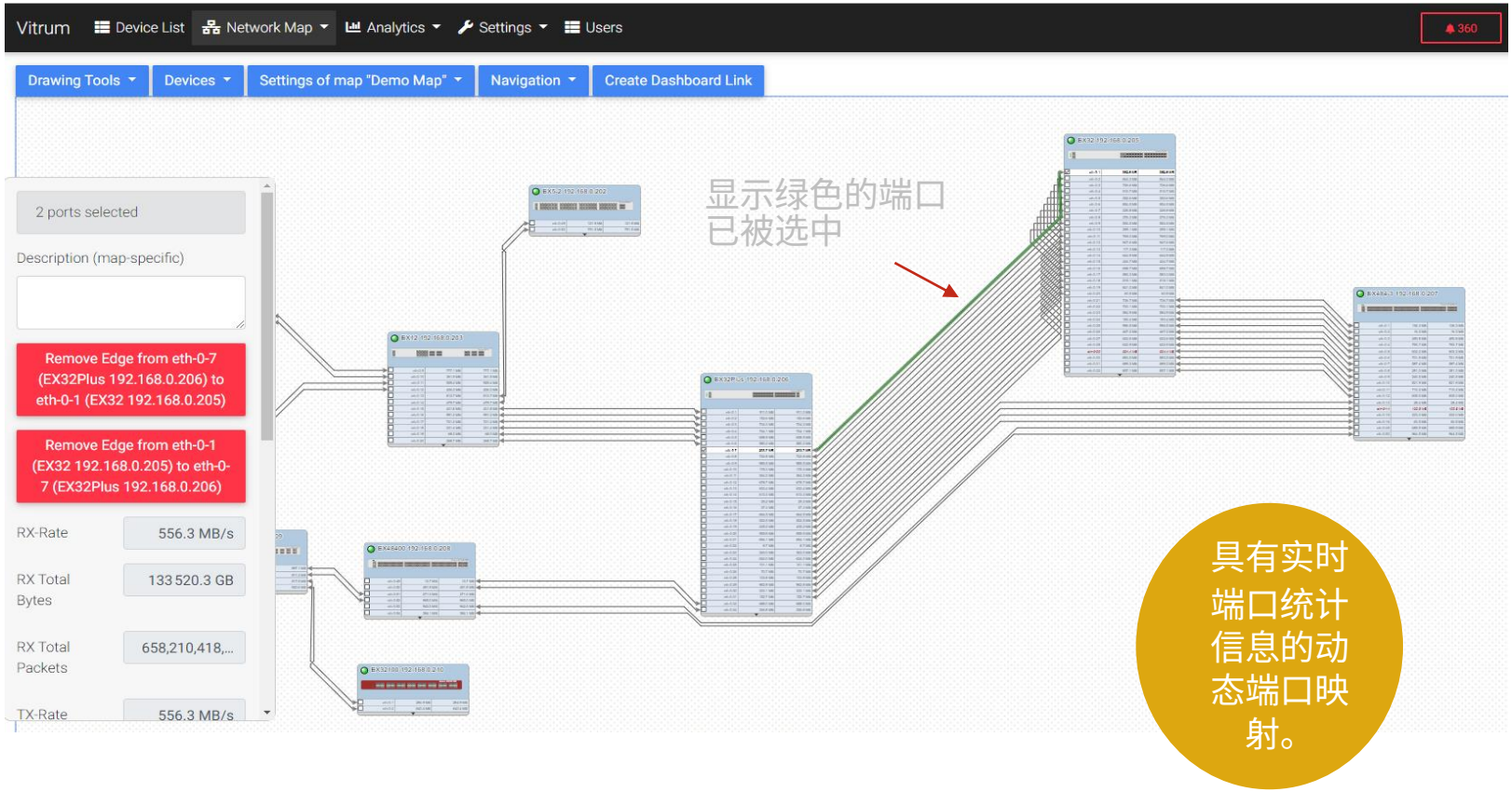
EX32Plus
192.168.0.206
(IP: 192.168.0.206)

EX484-3
192.168.0.207
(IP: 192.168.0.207)

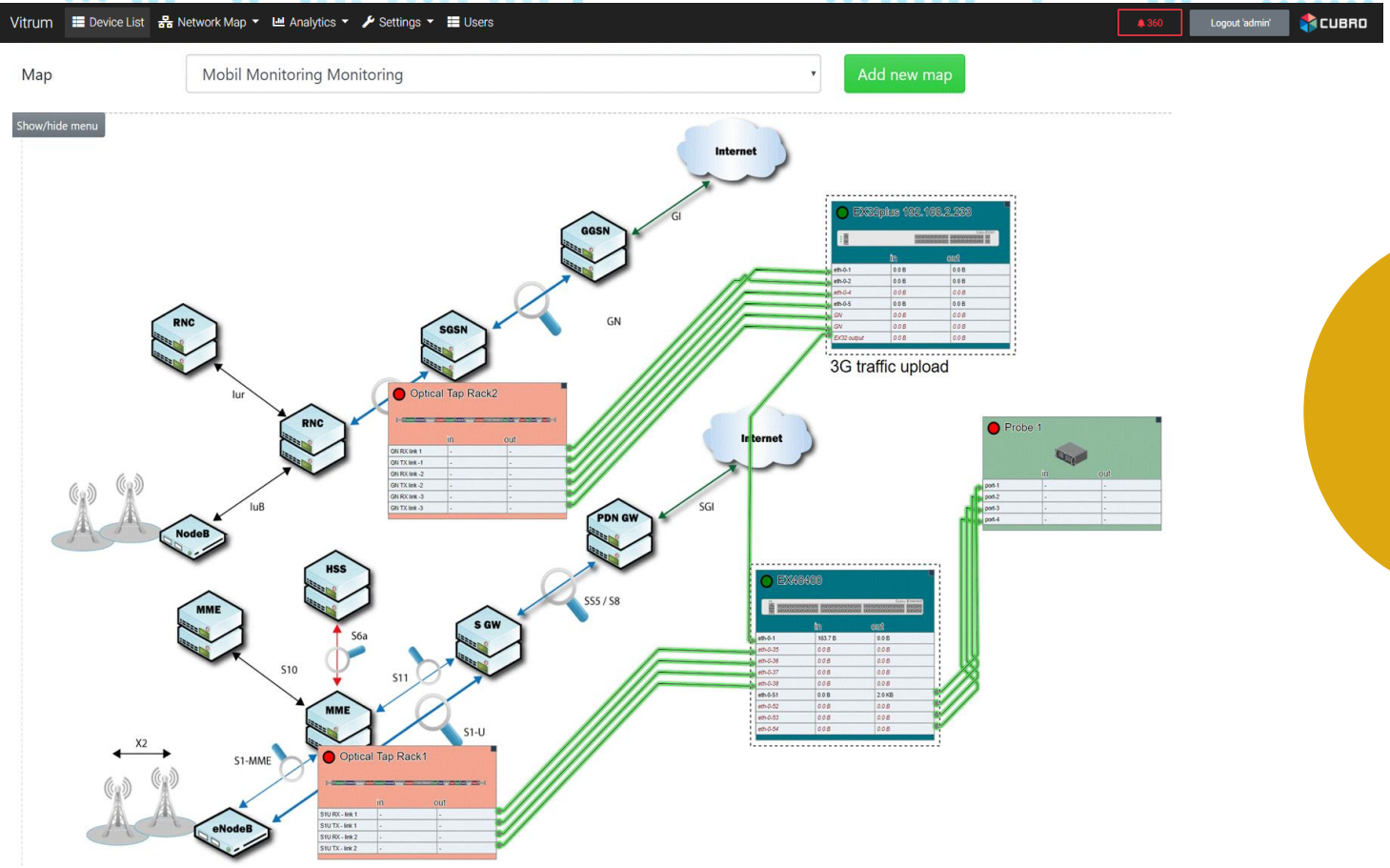
EX48400
192.168.0.208
(IP: 192.168.0.208)

EX32100
192.168.0.210
(IP: 192.168.0.210)

网络GUI – 自动端口映射



网络GUI – 示例

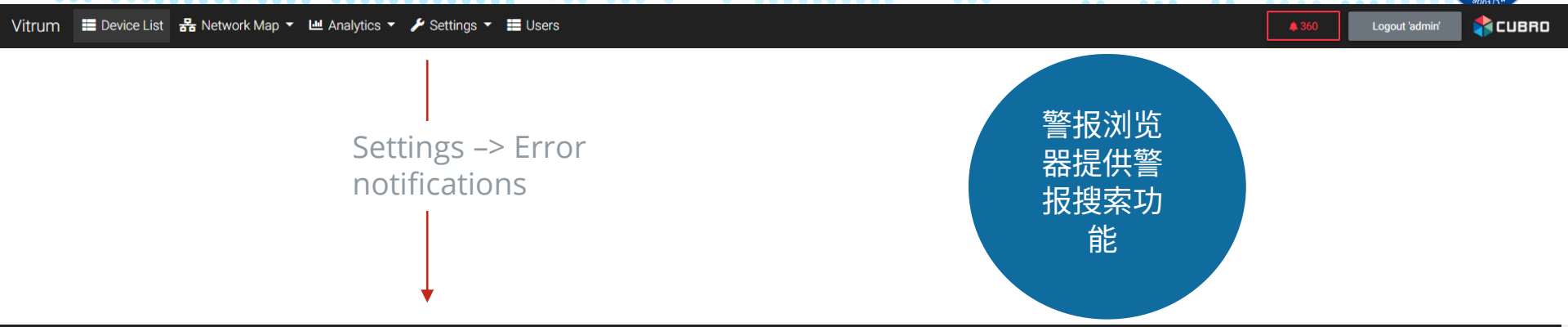


可以添加非Cubro设备

设备浏览器 – 警报查看器

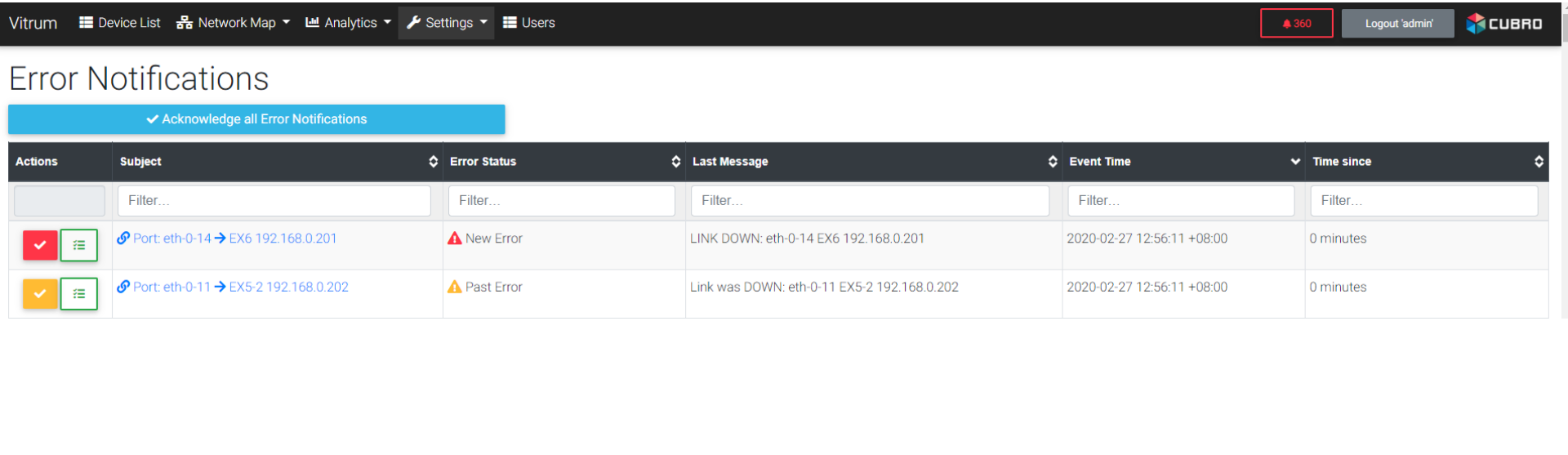
单击🔔符号可从任何屏幕页面激活报警查看器

警报浏览器



Settings –> Error notifications

警报浏览器提供警报搜索功能

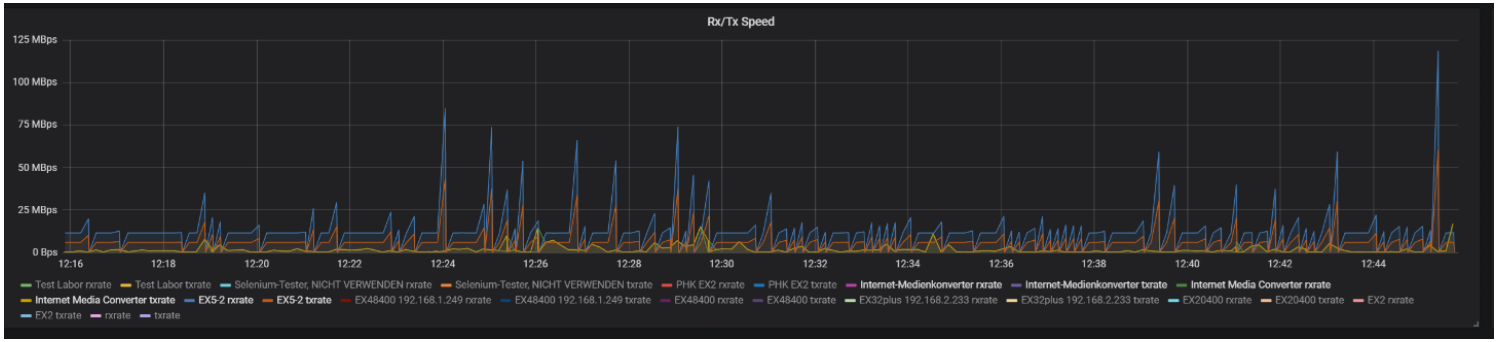


添加第三方监控工具

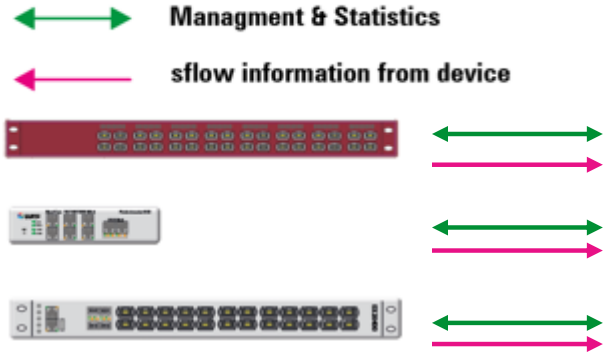
Grafana仪表板示例

Kibana和Grafana已整合到分析中

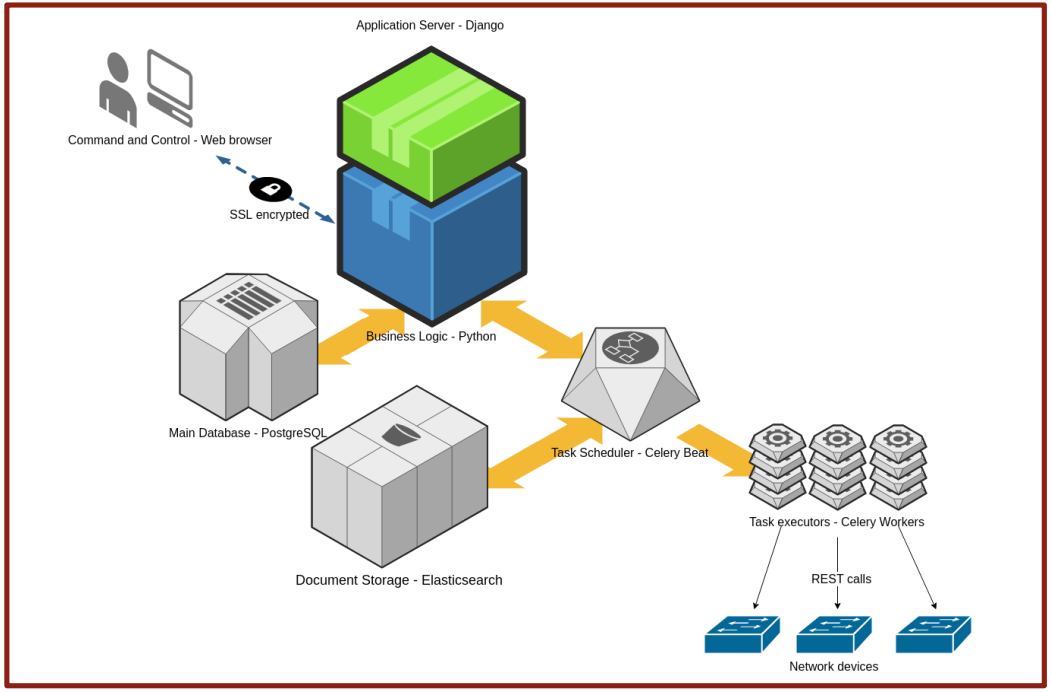
请注意：集成只是SW集成，不包括报表和图表。本幻灯片中的仪表盘和图表仅用于说明目的。



Vitrum架构



作为VMWare *的虚拟机部署

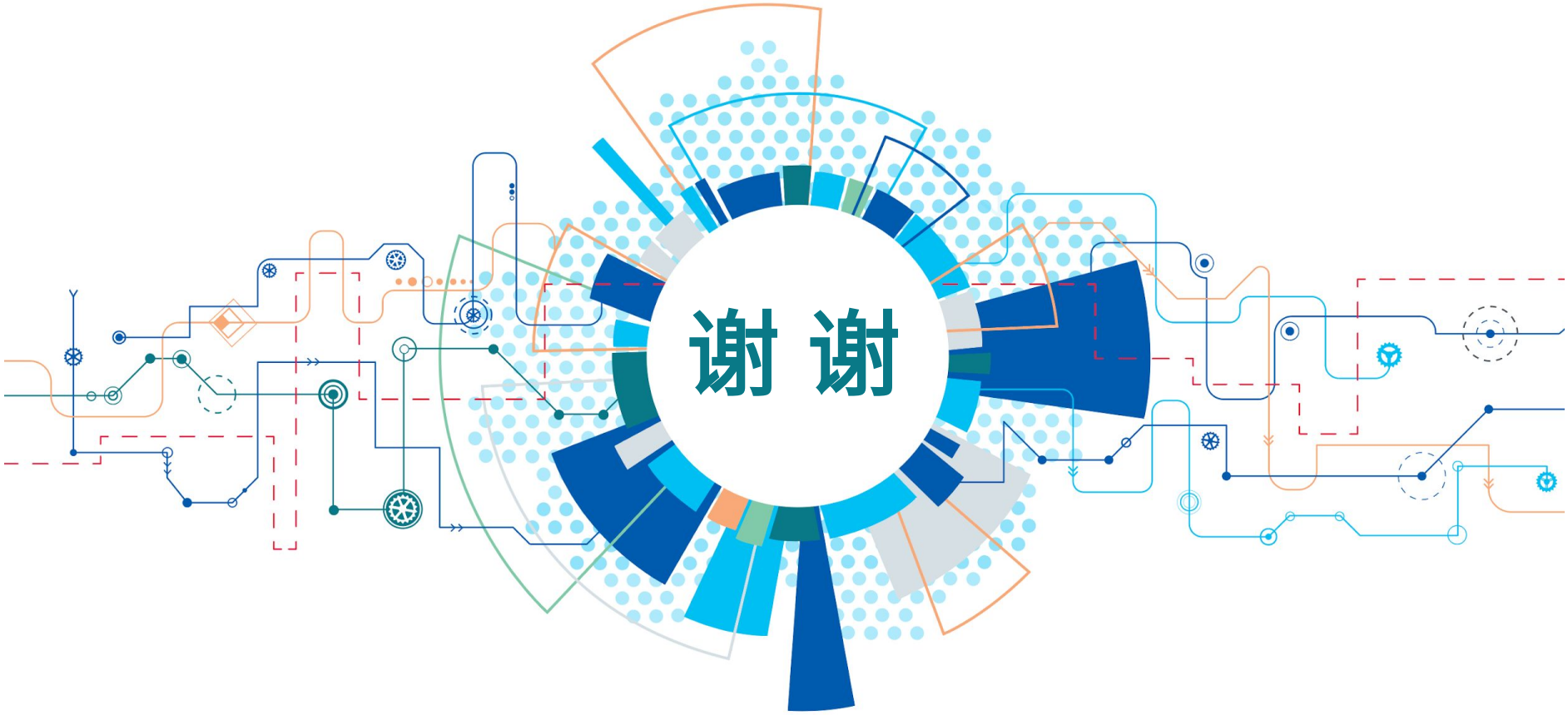


* 最终用户使用Web浏览器和URL进行连接（见幻灯片 "登录"）。

效益

- 通过网络和链接发现轻松设置
- 通过报警浏览器和易于使用的拓扑视图，对TAP网络进行高效的故障诊断
- 强大的备份和固件更新
- 具有用户名/密码和用户权限的用户管理

- 减低监控成本
- 更快的平均修复时间(MTTR)



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