



GOPS 2016
Shanghai



全球运维大会

2016

重新定义运维

上海站

会议时间： 9月23日-9月24日

会议地点： 上海·雅悦新天地大酒店

主办单位：



指导单位：

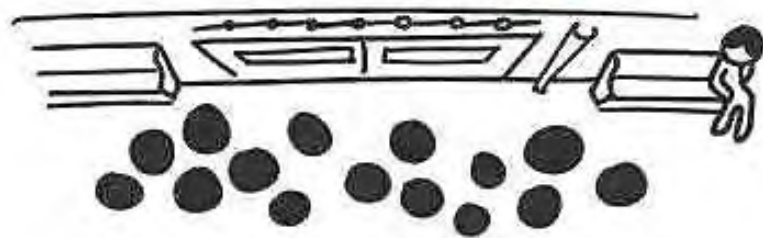


CMDB + 自动化 管理融合

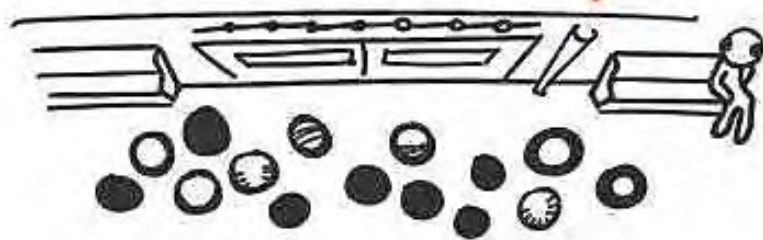
蒋君伟 优云软件



普通地铁站



中关村地铁站



前文回顾....

能消费起来的CMDB才是好CMDB！



回顾传送门

现有的自动化工具



他们都很有特色 但还不是成熟的运维平台

我们的自动化思路



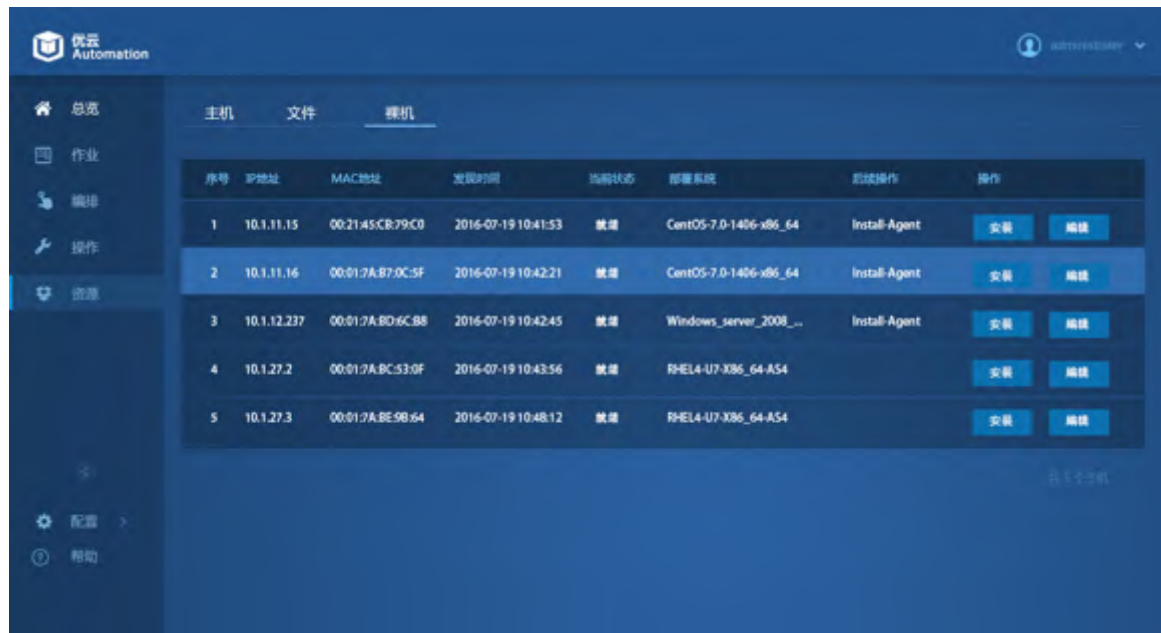
A photograph of a server room with blue lighting. Rows of server racks are visible, with some racks having glass doors that show internal components. The room has a high ceiling with exposed pipes and cables. The overall atmosphere is futuristic and technological.

自动化从机器上架开始！

裸机安装流程



裸机安装作业



The screenshot shows the 'Automation' web interface. On the left is a sidebar with navigation links: '总览' (Overview), '作业' (Jobs), '编排' (Orchestration), '操作' (Operations), and '资源' (Resources). The '资源' section is expanded, showing sub-tabs for '主机' (Hosts), '文件' (Files), and '裸机' (Bare Metal). The '裸机' tab is active, displaying a table of installation jobs. The table has columns for '序号' (Serial Number), 'IP地址' (IP Address), 'MAC地址' (MAC Address), '发现时间' (Discovery Time), '当前状态' (Current Status), '部署系统' (Deployment System), '系统操作' (System Operation), and '操作' (Actions). There are five rows of data, each with '安装' (Install) and '编辑' (Edit) buttons in the '操作' column.

序号	IP地址	MAC地址	发现时间	当前状态	部署系统	系统操作	操作
1	10.1.11.15	00:21:45:CB:79:C0	2016-07-19 10:41:53	就绪	CentOS-7.0-1406-x86_64	Install-Agent	安装 编辑
2	10.1.11.16	00:01:7A:B7:0C:5F	2016-07-19 10:42:21	就绪	CentOS-7.0-1406-x86_64	Install-Agent	安装 编辑
3	10.1.12.237	00:01:7A:8D:6C:B8	2016-07-19 10:42:45	就绪	Windows_server_2008_...	Install-Agent	安装 编辑
4	10.1.27.2	00:01:7A:BC:53:0F	2016-07-19 10:43:56	就绪	FHEI4-U7-X86_64-AS4		安装 编辑
5	10.1.27.3	00:01:7A:BE:5B:64	2016-07-19 10:48:12	就绪	FHEI4-U7-X86_64-AS4		安装 编辑

裸机安装流程



回写CMDB的信息

host : mongodb.server.1.25 (10.2.1.25)

系统信息

复制信息

操作系统	处理器
主机名称 : iZ11ekkaikwZ	缓存大小 : 30720 KB
内核 : Linux	物理核数 : 2
内核版本 : 3.10.0-327.18.2.el7.x86_64	逻辑核数 : 2
构建版本 : #1 SMP Thu May 12 11:03:55 UTC 2016	主频(mhz) : 2494.224
硬件平台 : x86_64	型号 : Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz
操作系统 : GNU/Linux	厂商 : GenuineIntel
内存	文件系统
交换分区 : 0.0GB	/dev/vda1 mounted on / 39.2GB
物理内存 : 3.7GB	devtmpfs mounted on /dev 1.8GB
	tmpfs mounted on /dev/shm 1.9GB
	tmpfs mounted on /run 1.9GB
	tmpfs mounted on /sys/fs/cgroup 1.9GB
网络	
IP : 10.2.1.25	
MAC : 00:16:3e:10:05:38	

注意事项

采购符合要求的
硬件设备



避免生产系
统被重装



虚拟机安装流程



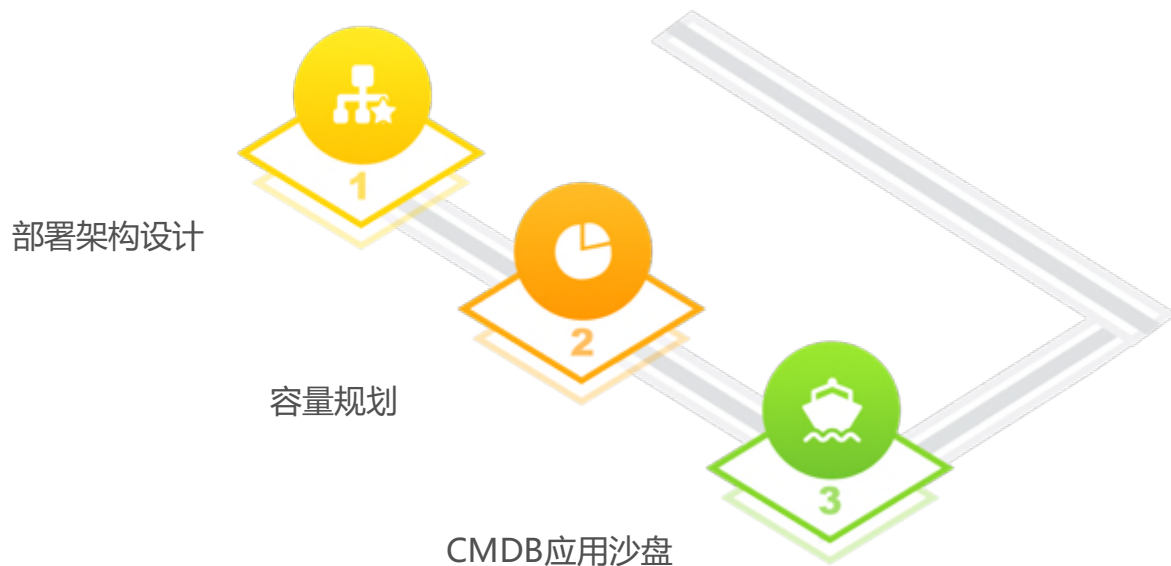
Agent部署到哪，运维就可以到哪！



The background of the image is a dark blue gradient. On the left, there is a dark blue silhouette of a person's head and shoulders, facing right. The person appears to be looking at a laptop screen. The laptop is at the bottom right, with its screen displaying a complex network of colorful lines (red, green, blue, yellow) that branch out and connect to various circular icons. These icons include a speech bubble, a musical note, a smiley face, a thumbs up, a globe, a gear, a star, a heart, a mail envelope, a person profile, a computer monitor, and a plus sign. The overall theme is digital connectivity and online activity.

点沙成金

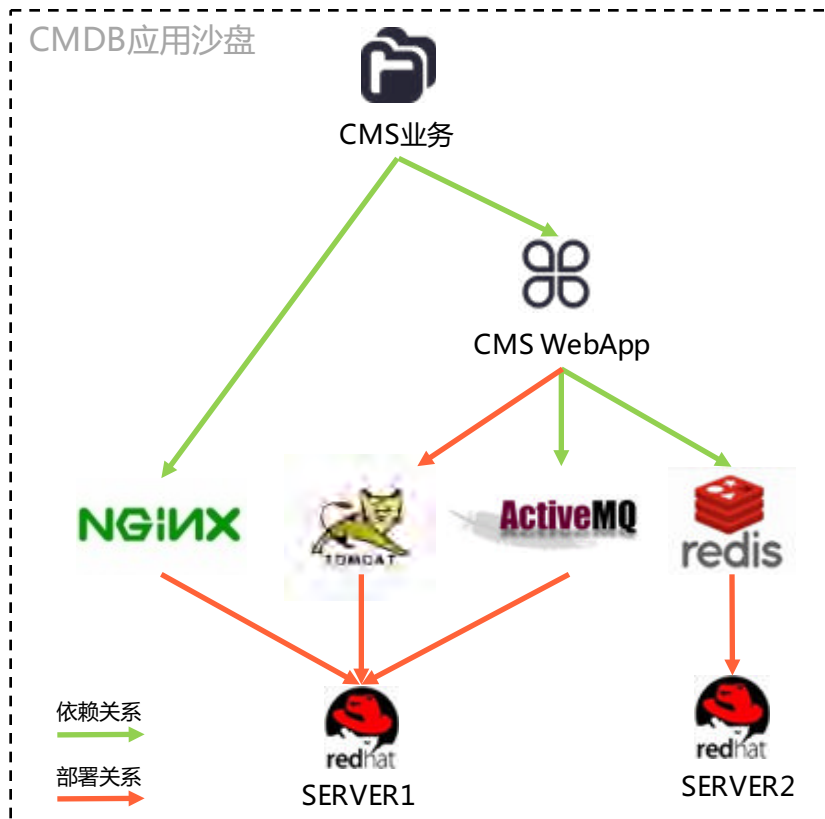
应用部署流程



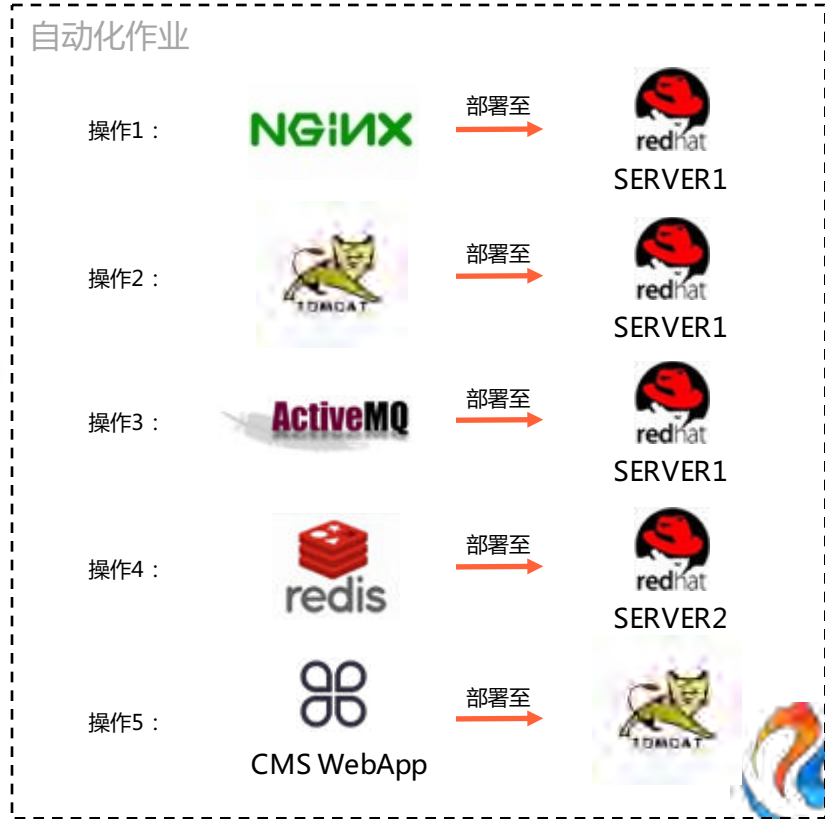
CMDB沙盘消费圈



CMDB沙盘分解到自动化作业



自动编排



Automation作业执行

The screenshot displays the 'Automation' (运维自动化) interface. The left sidebar contains navigation options: 总览 (Overview), 作业 (Jobs), 编排 (Orchestration), 操作 (Operations), 资源 (Resources), 配置 (Configuration), and 帮助 (Help). The main content area is titled '作业 > 作业详情' (Jobs > Job Details) and includes a '返回' (Return) button. The job information section shows: 作业名称: 一键部署CMS系统_20160918194733 (Job Name: One-click deployment of CMS system_20160918194733), 所属编排: 一键部署CMS系统 (Associated Orchestration: One-click deployment of CMS system), 执行人: demo (Executor: demo), 执行方式: 手工 (Execution Method: Manual), 总耗时: 4m 3s (Total Duration: 4m 3s), 开始时间: 2016/09/18 19:47:33 (Start Time: 2016/09/18 19:47:33), 结束时间: (End Time:), and 执行状态: 执行中 (Execution Status: Executing). The '编排参数' (Orchestration Parameters) section shows a 'web_server' parameter with values 'cms-server2' and 'cms-server1'. The '任务详情' (Task Details) section features a '停止本次作业' (Stop this job) button and a table of task execution progress.

序号	任务名称	操作名称	开始时间	结束时间	总耗时	状态	操作
1	安装Apache	安装Apache	2016/09/18 19:47:33	2016/09/18 19:51:10	3m 37s	成功执行	
2	启动Apache	启动Apache	2016/09/18 19:51:11	2016/09/18 19:51:19	8s	成功执行	
3	安装Redis	安装Redis	2016/09/18 19:51:19	2016/09/18 19:51:32	13s	成功执行	
4	启动Redis	启动Redis	2016/09/18 19:51:32		5s	执行中	
5	安装ActiveMQ	安装ActiveMQ				等待执行	
6	启动ActiveMQ	启动ActiveMQ				等待执行	

Automation作业执行

The screenshot displays the 'Automation' console interface. On the left is a navigation menu with options: 概览, 作业, 编排, 操作, and 资源. The '作业' (Jobs) section is active, showing a list of tasks. The task '安装Tomcat' (Install Tomcat) is selected, and its details are shown on the right. The task status is '成功' (Success). The execution environment is 'agent', and the execution status is '成功' (Success). The start time is '2016-09-18 19:52:11', the end time is '2016-09-18 19:52:31', and the total time is '20s'. The task details include a list of tasks (序号, 任务名称) and a detailed execution log (执行情况).

序号	任务名称
1	安装Apache
2	启动Apache
3	安装Redis
4	启动Redis
5	安装Activemq
6	启动Activemq
7	安装Tomcat
8	启动Tomcat
9	安装Nginx
10	启动Nginx

执行情况

输入参数

输出参数

执行结果

```
2016-09-18 19:52:20 任务已经下发到Proxy
2016-09-18 19:52:24 任务已经下发到Agent, 正在执行...
2016-09-18 19:52:25 开始进行Linux系统下的安装
2016-09-18 19:52:25 tomcat包已解压
2016-09-18 19:52:30 jar包已解压
2016-09-18 19:52:30 Tomcat Installed!
2016-09-18 19:52:30 tomcat安装成功
```

应用部署流程



自动化是CMDB的优秀消费者与生产者！



A man with glasses and a beard, wearing a dark sweater over a collared shirt, is sitting in a red and black office chair in a server room. He is looking down at a laptop on his lap. His legs are crossed at the ankles and raised in the air. The server room is filled with rows of server racks on both sides, with various cables and equipment visible. The floor has metal grates. The overall lighting is dim, with a blueish tint.

CMDB + 自动化 的日常

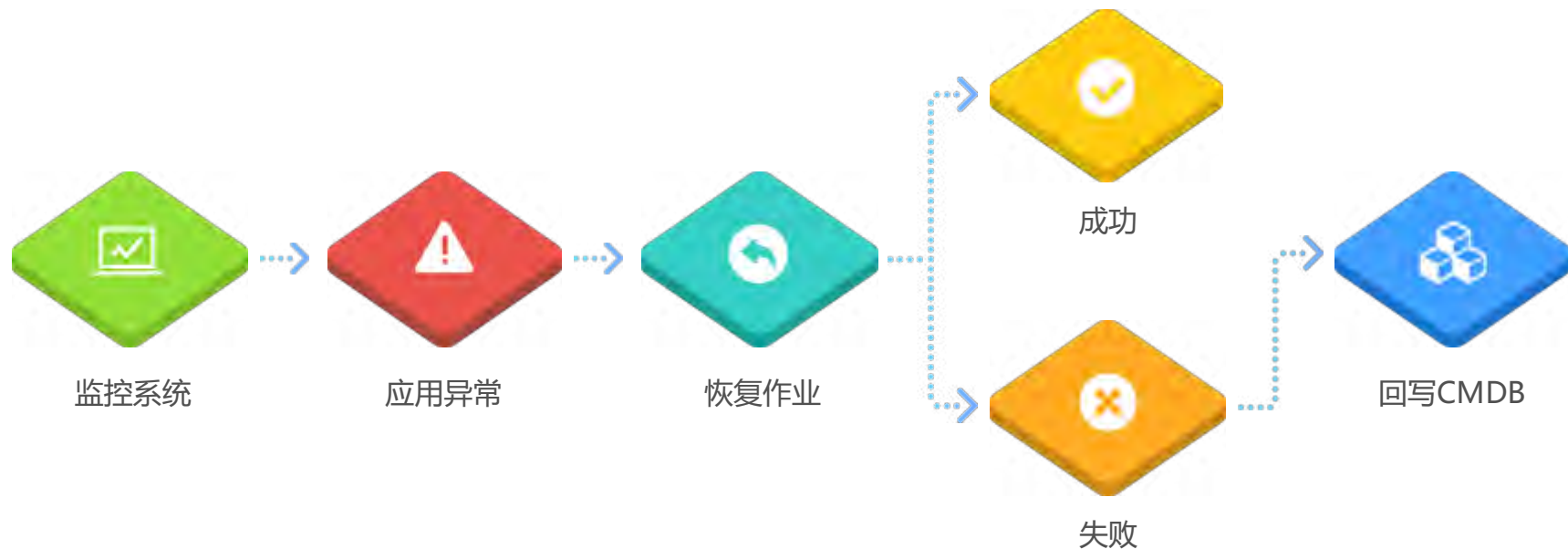
日清



备份



故障处理

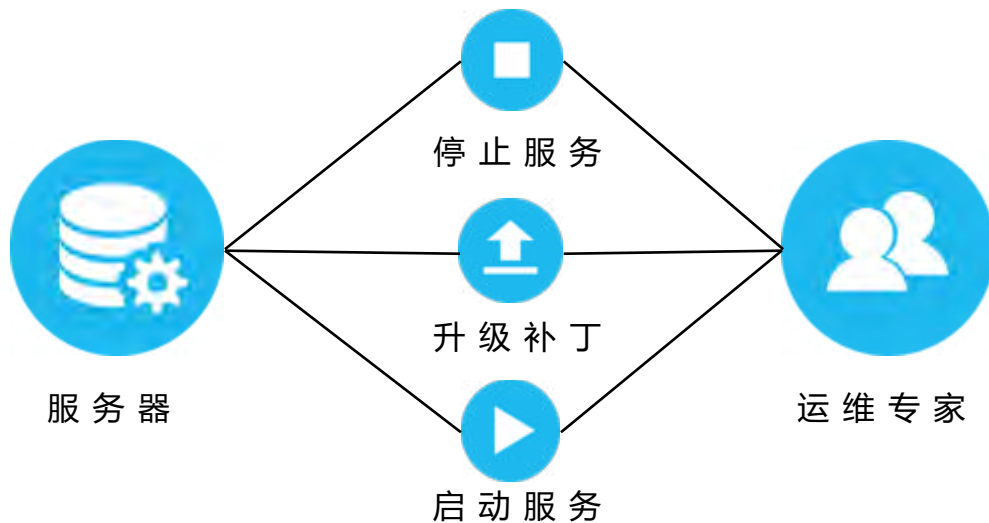


标准化操作

管理对象

基础操作

运维人员



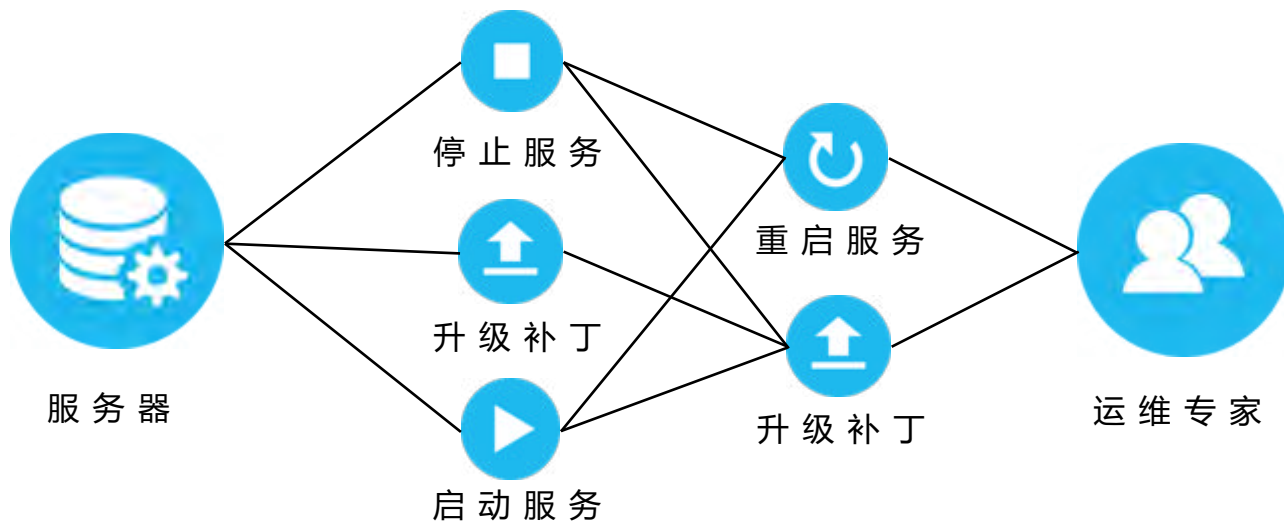
复用操作形成作业

管理对象

基础操作

作业编排

运维人员



定岗定责

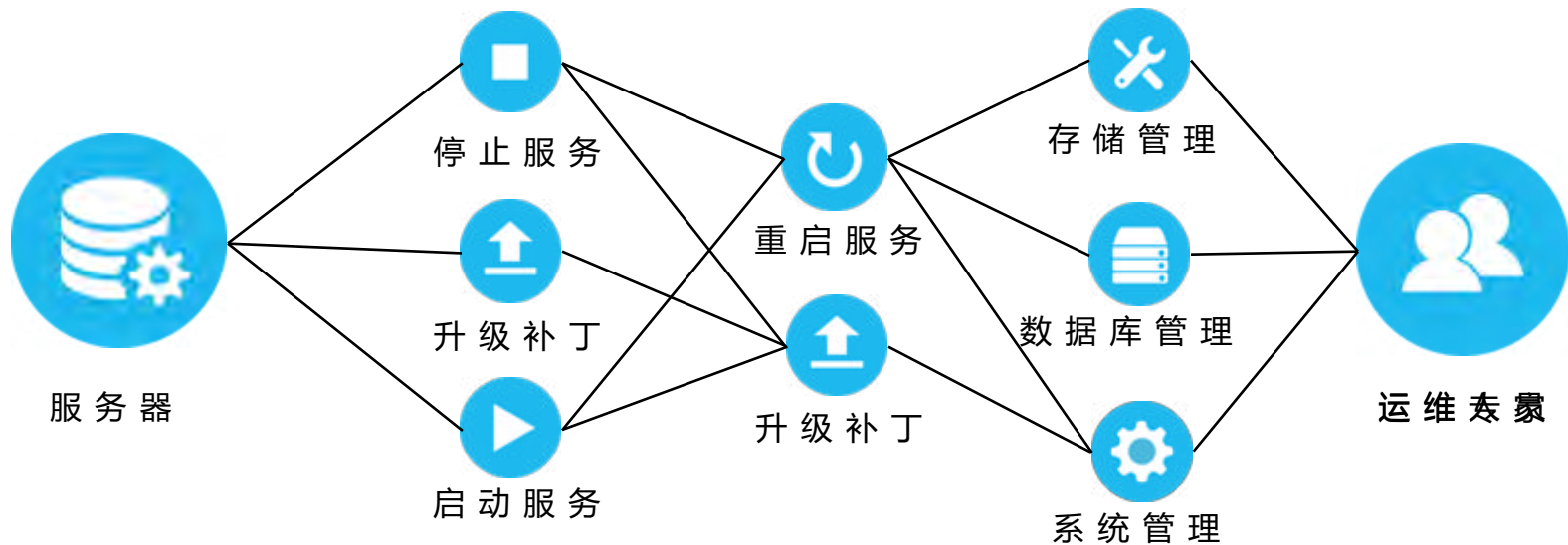
管理对象

基础操作

任务编排

岗位职责

运维人员



以岗责为中心，提供最佳运维实践！

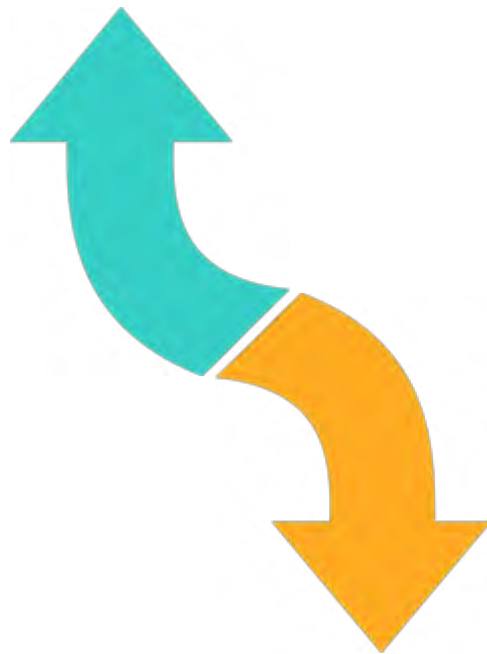


A photograph of a server room aisle. The server racks on the left are illuminated with a warm yellow light, while the floor and the racks on the right are bathed in a cool blue light. The perspective is looking down the aisle, creating a sense of depth. The text '双态运维' is centered in the image in a white, bold font.

双态运维

CMDB着重说明运维对象
及它们之间的关系，让运
维更清晰与稳定。

稳定、可靠



敏捷、效率

自动化减少CMDB的维护
成本，并大大加速运维操
作的效率。



Thanks

高效运维社区
开放运维联盟

荣誉出品





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2016年12月16日-17日
北京国际会议中心

