



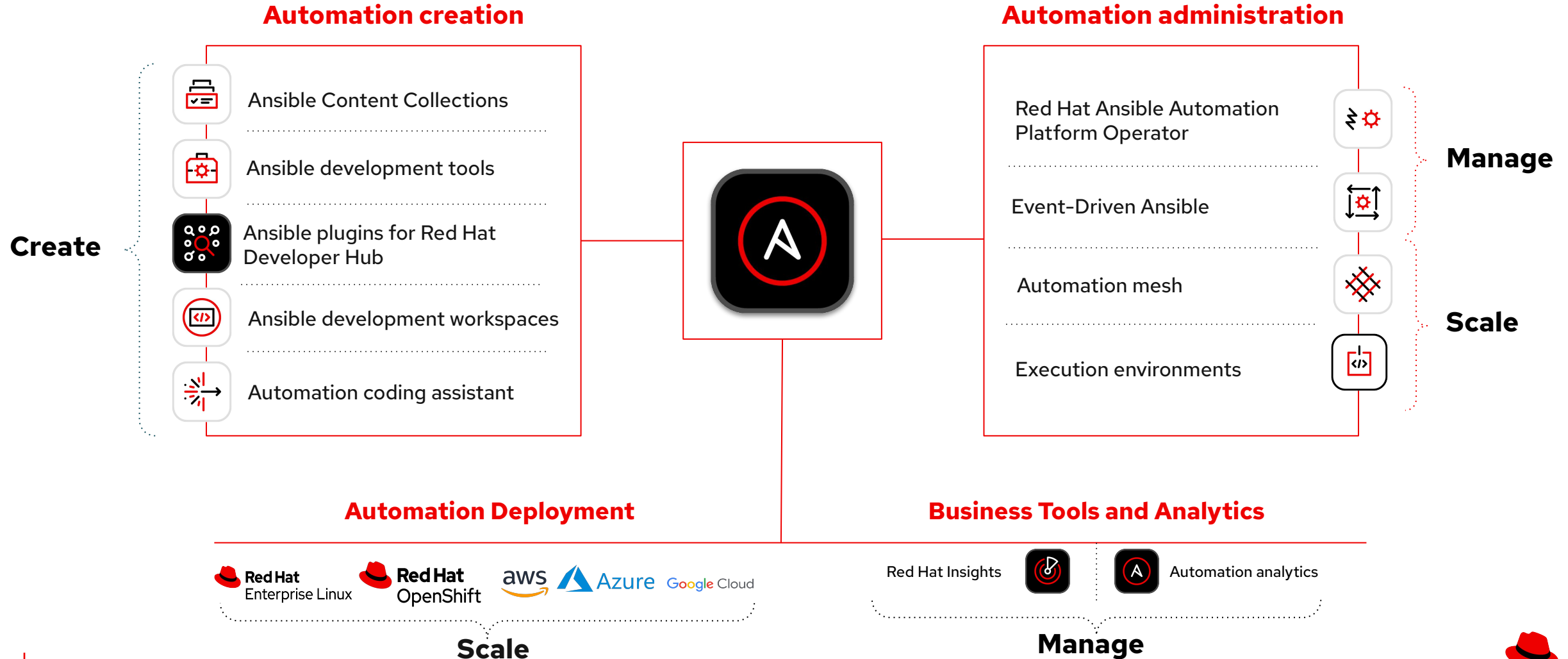
Connect

Enterprise Resilience for AAP

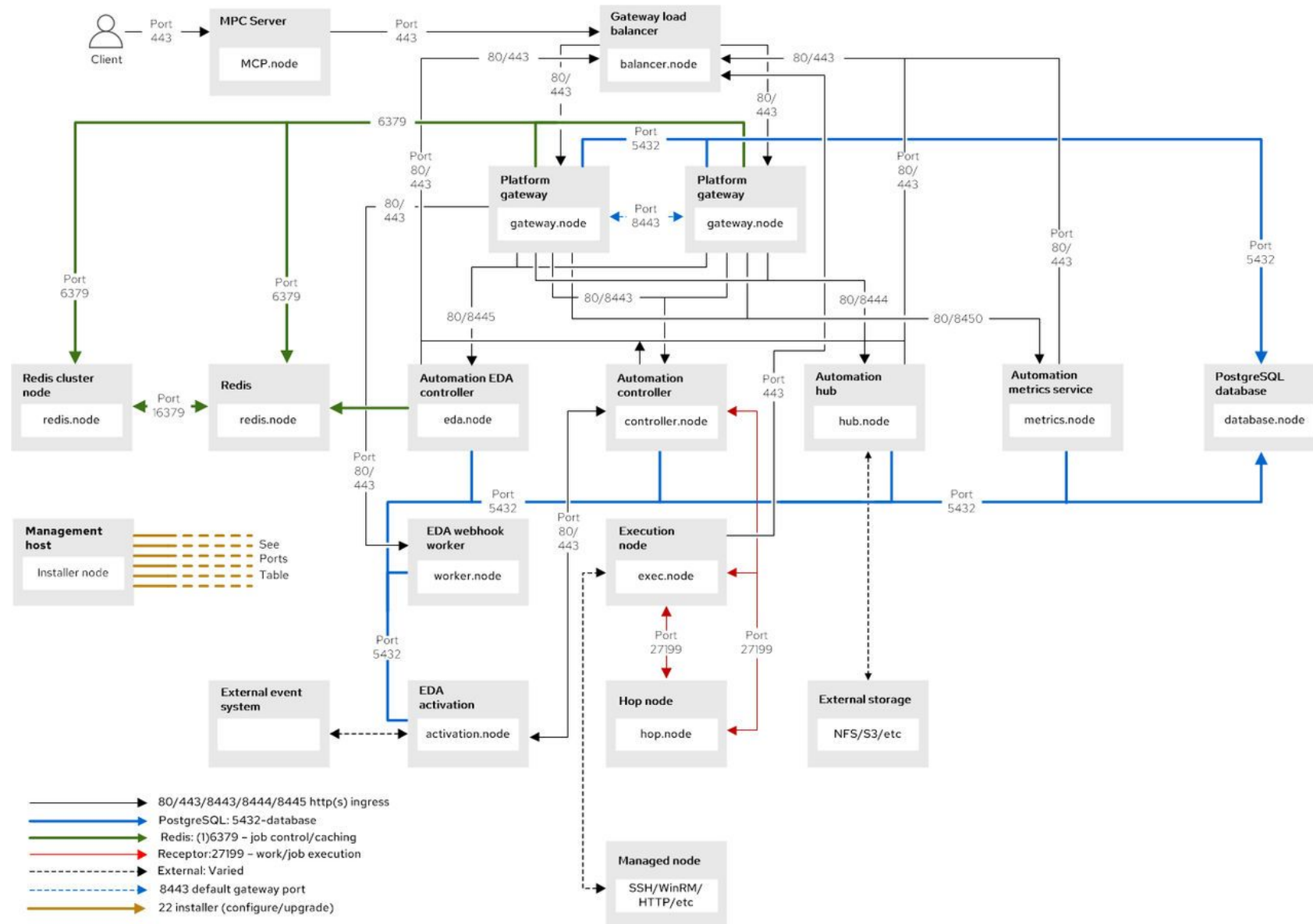
High Availability and Disaster Recovery in a
Containerized AAP

Laura Romero
Automation Specialist

You normally see **this...**

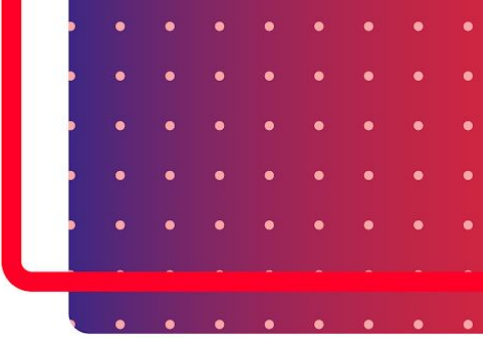


But it deploys like **this...**



How do you actually Architect an Enterprise Ansible Automation Platform Deployment?

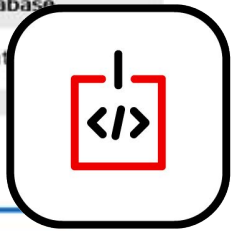


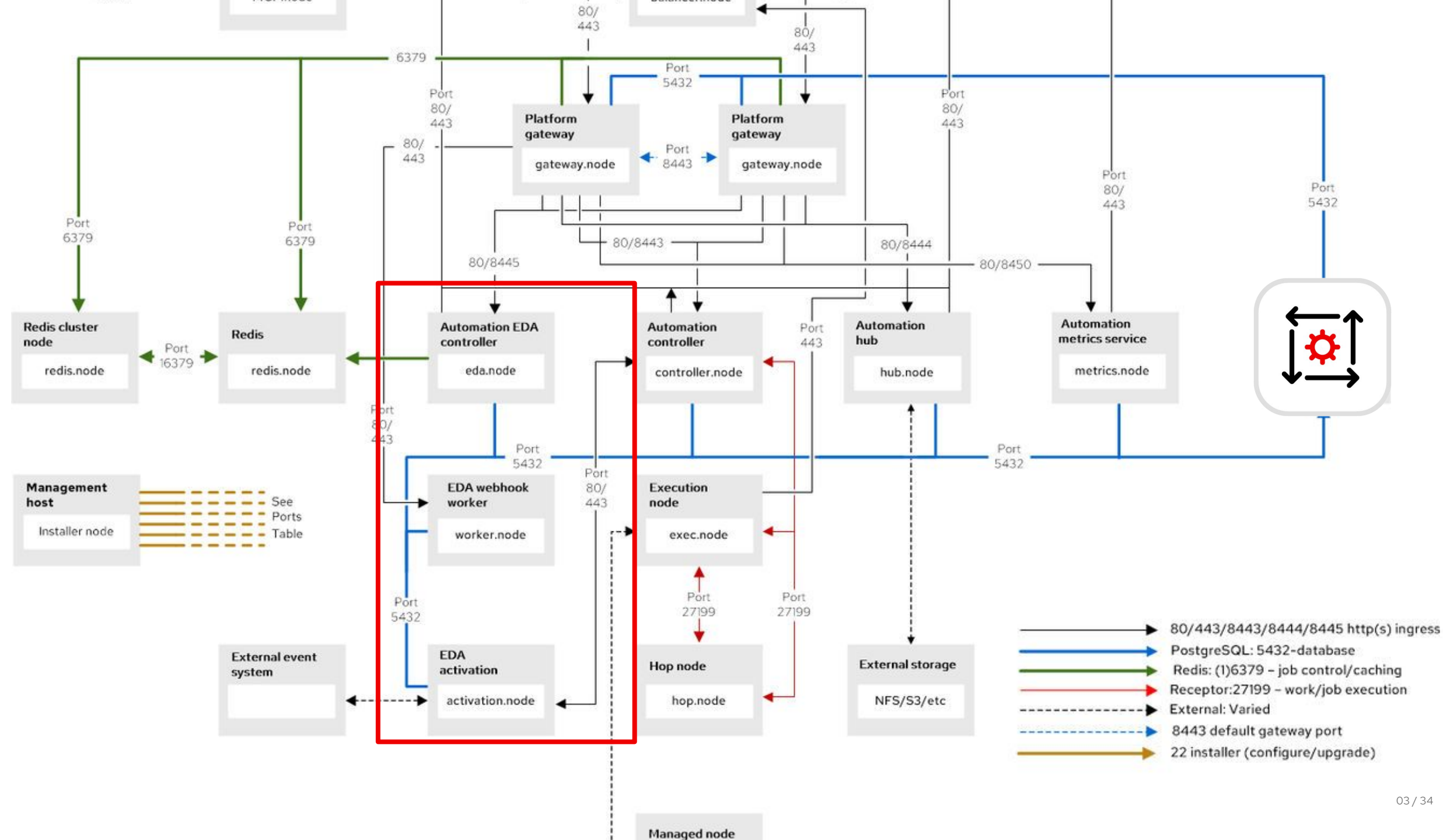


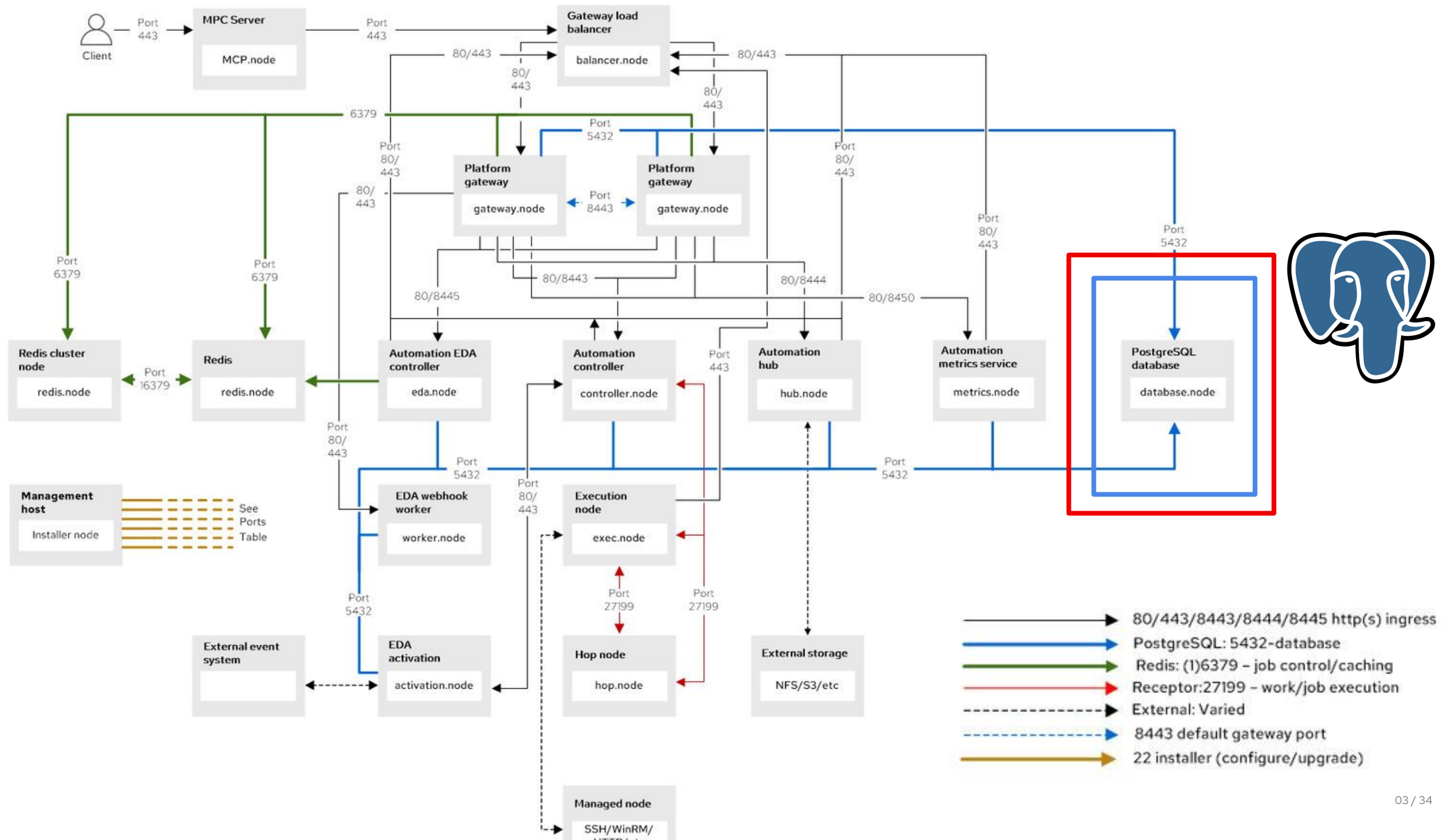
Prerequisite Knowledge for Deploying AAP

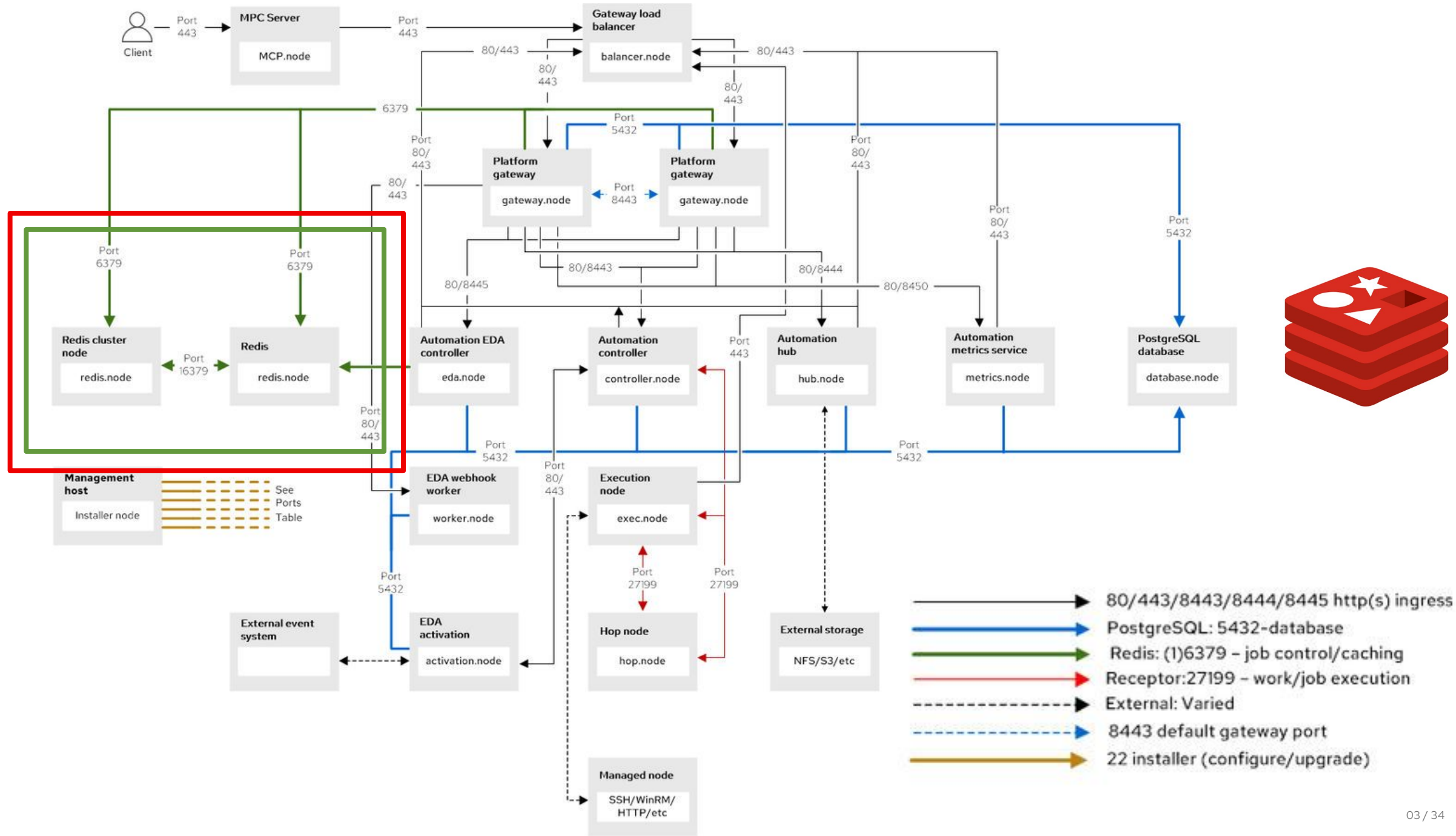
Interrogating the architecture

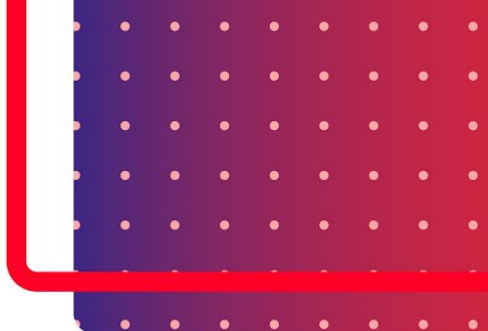












AAP for Resilience

How do you Architect Ansible Automation
Platform for High Availability and Disaster
Recovery?



Ansible Automation Platform **installation options.**



Containerized

- ▶ Ideal for flexibility and rapid scaling
- ▶ Simplifies dependency management

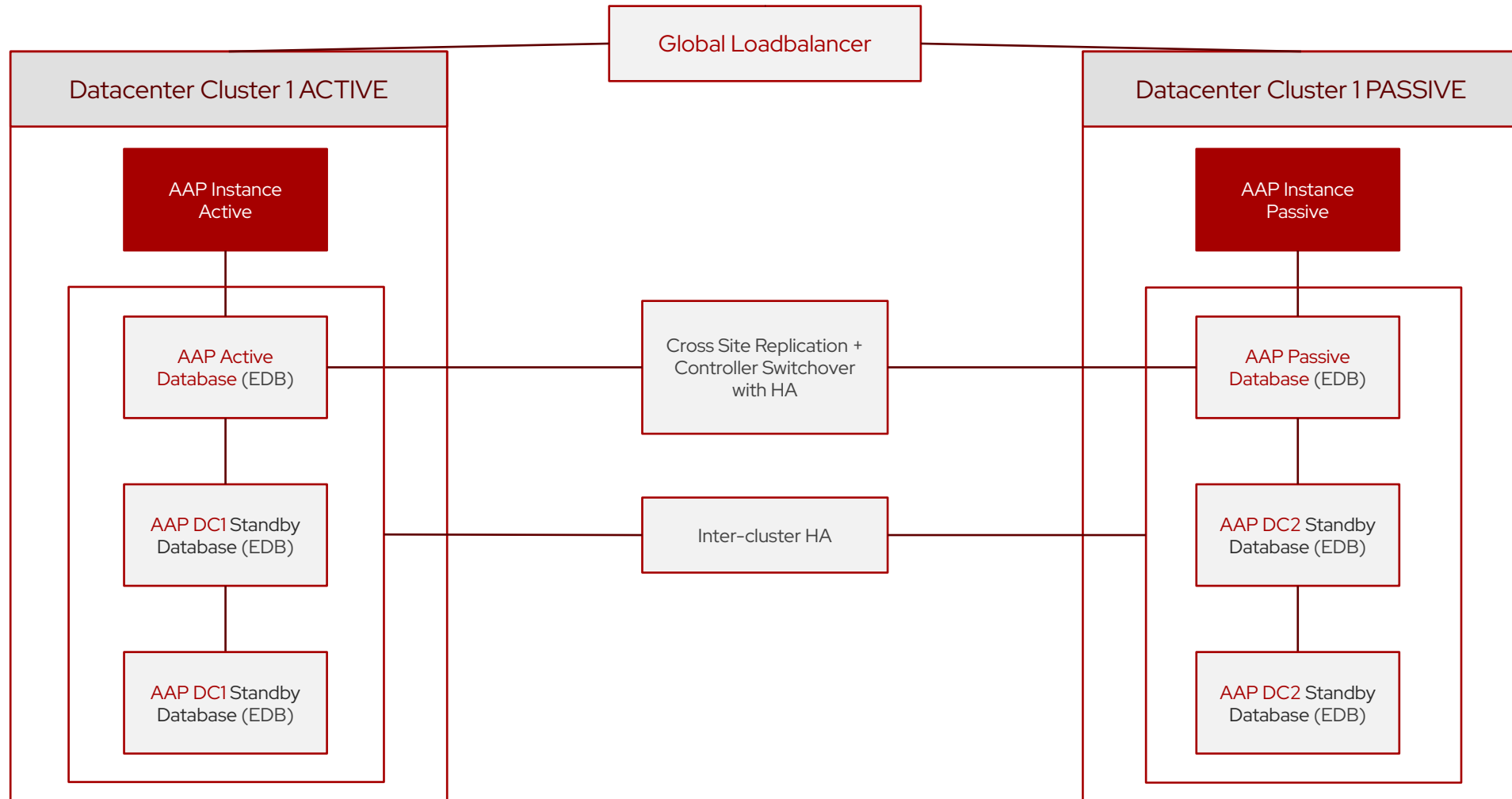


OpenShift Operator

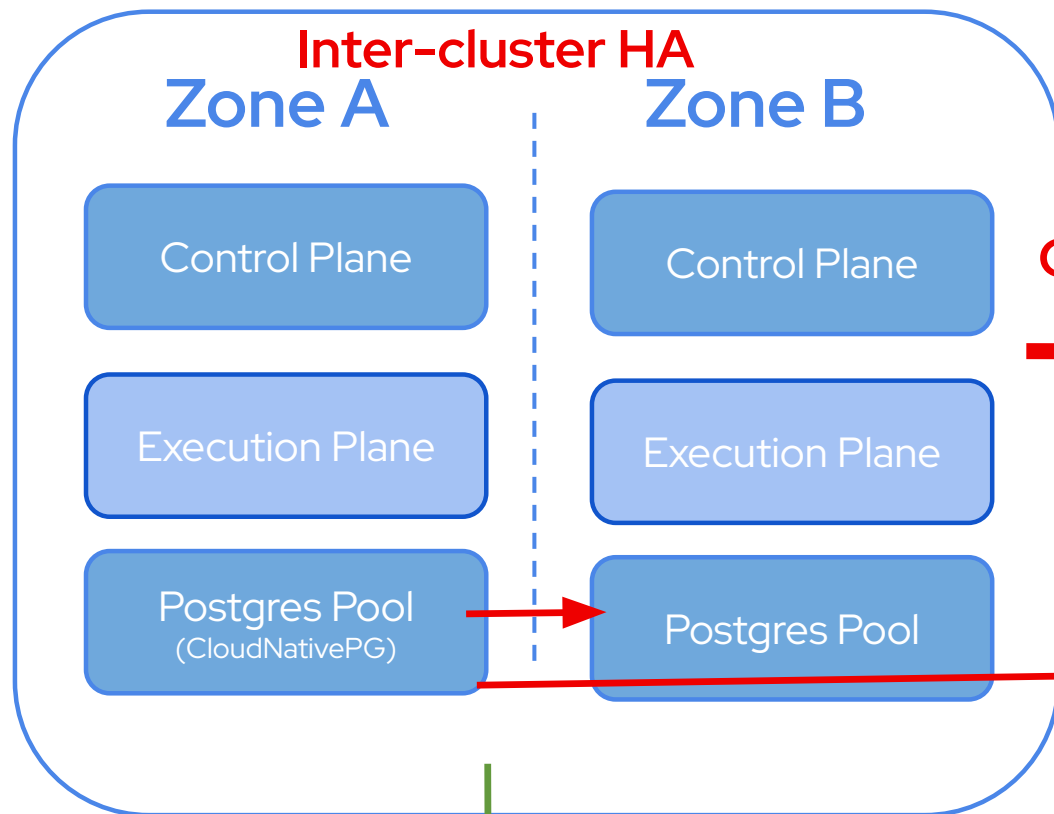
- ▶ Seamless integration with Openshift
- ▶ Automated lifecycle management



Disaster Recovery and Failover Sequence



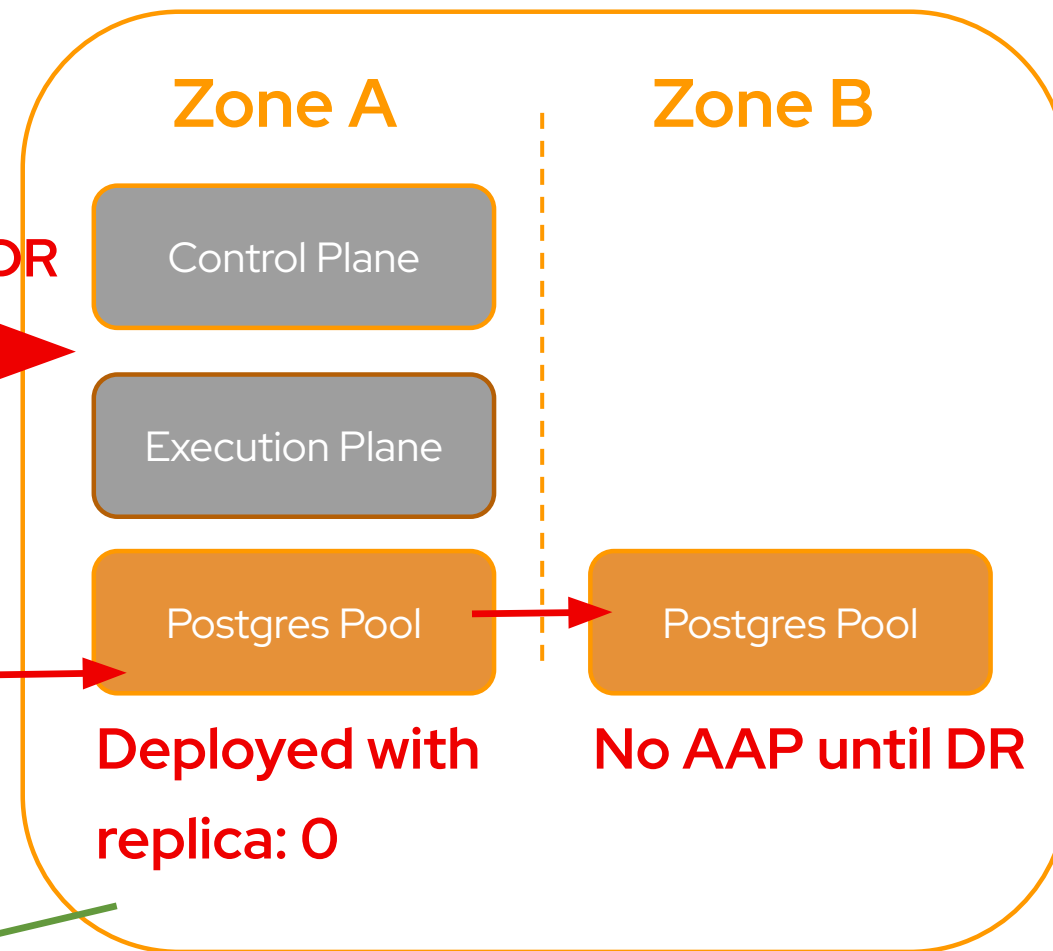
Cluster 1 (Primary)



ON DR

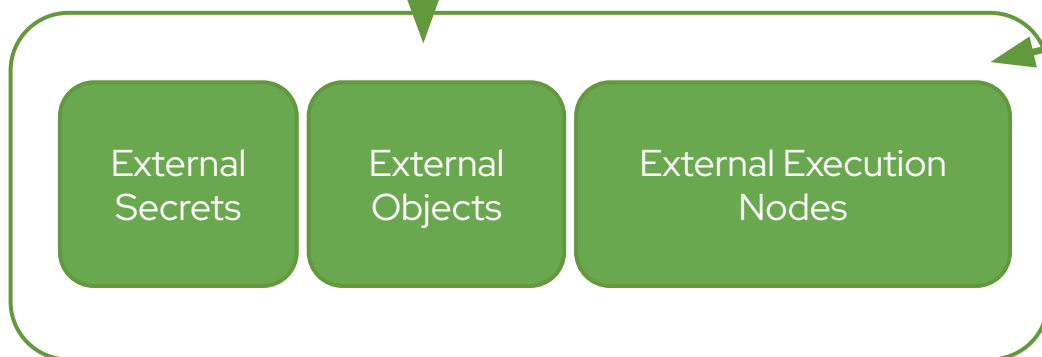


Cluster 2 (DR Standby)

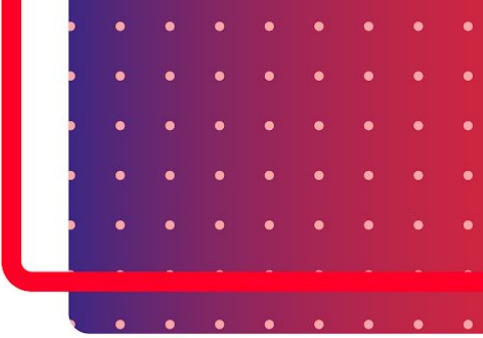


**Deployed with
replica: 0**

No AAP until DR



**Cross Site Replication + Controller
Switchover with HA!**

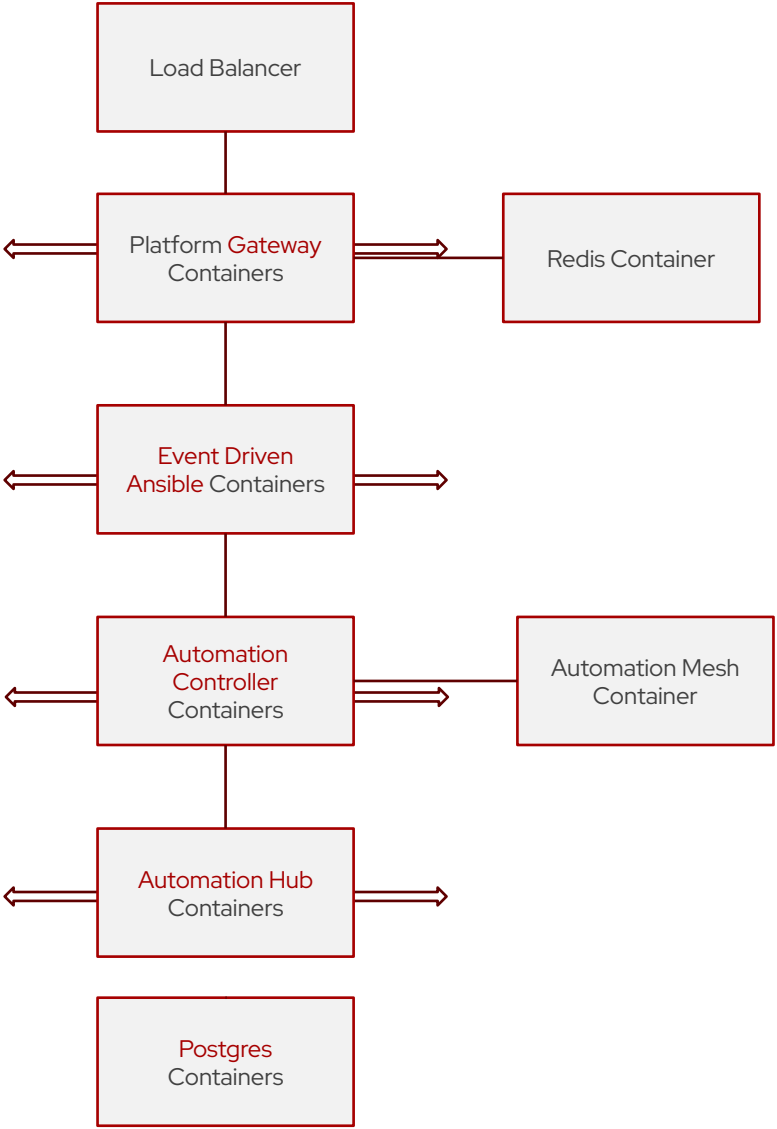


Estimating Deployment Sizings

VMs, RAM, VCPUs and Disk Space



Containerized Growth



Containerized

Growth

Your AAP 2.6 Infrastructure Sizing

Based on Red Hat tested deployment models

CONFIG:

INSTALLER Containerized

TOPOLOGY Growth

EDA Yes

EXEC NODES 2

3
MANAGED VMS

64 GB
TOTAL RAM

12
TOTAL VCPUS

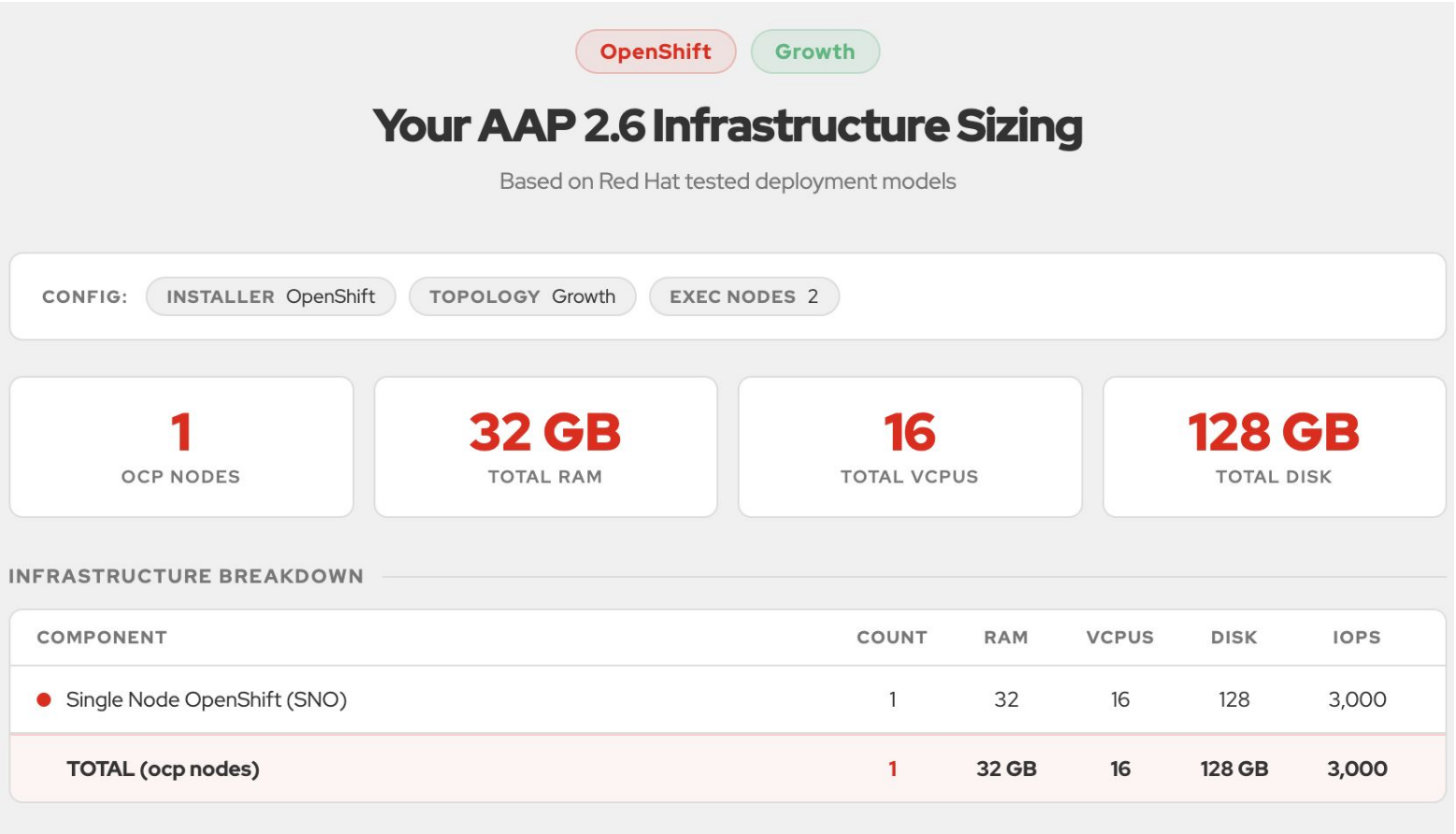
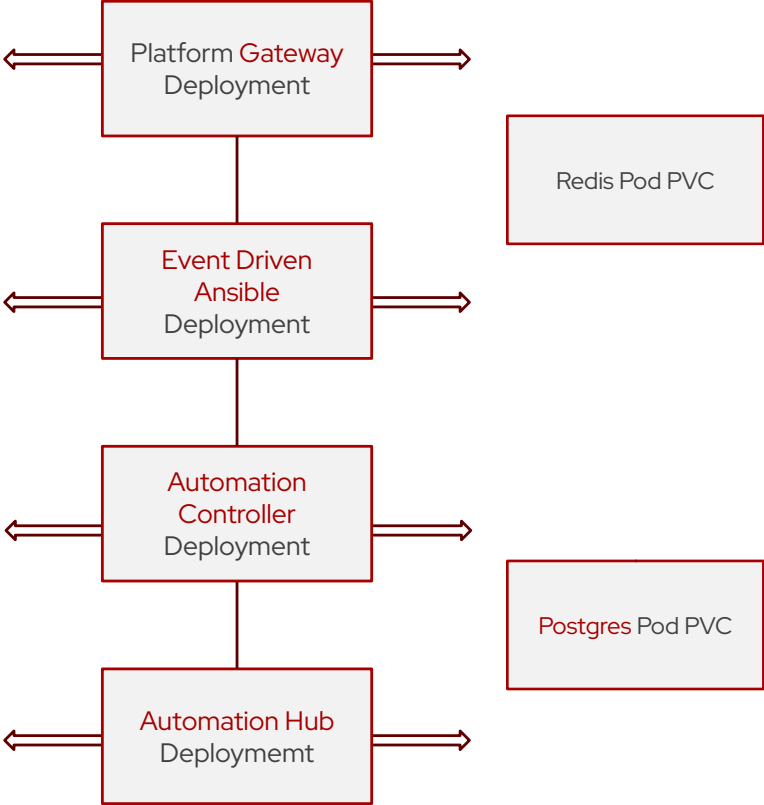
180 GB
TOTAL DISK

All AAP Components (single VM) + Additional Execution ×2 = 3 VMs

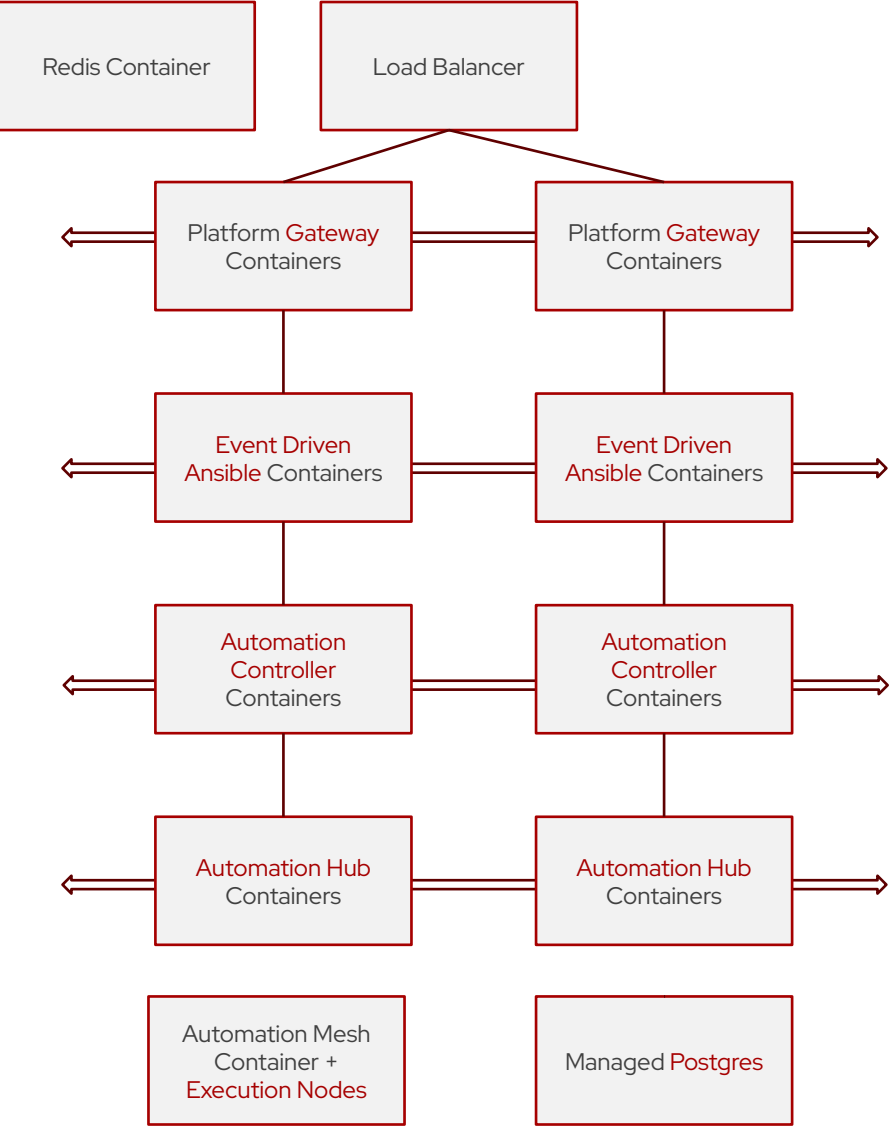
INFRASTRUCTURE BREAKDOWN

COMPONENT	COUNT	RAM	VCPUS	DISK	IOPS
● All AAP Components (single VM)	1	32	4	60	3,000
● Additional Execution Nodes ×2	2	16	4	60	3,000
TOTAL (managed vms)	3	64 GB	12	180 GB	3,000

Operator Growth



Containerized Enterprise



Containerized

Enterprise

Your AAP 2.6 Infrastructure Sizing

Based on Red Hat tested deployment models

CONFIG:

INSTALLER Containerized

TOPOLOGY Enterprise

EDA Yes

EXEC NODES 2

11
MANAGED VMS

176 GB
TOTAL RAM

44
TOTAL VCPUS

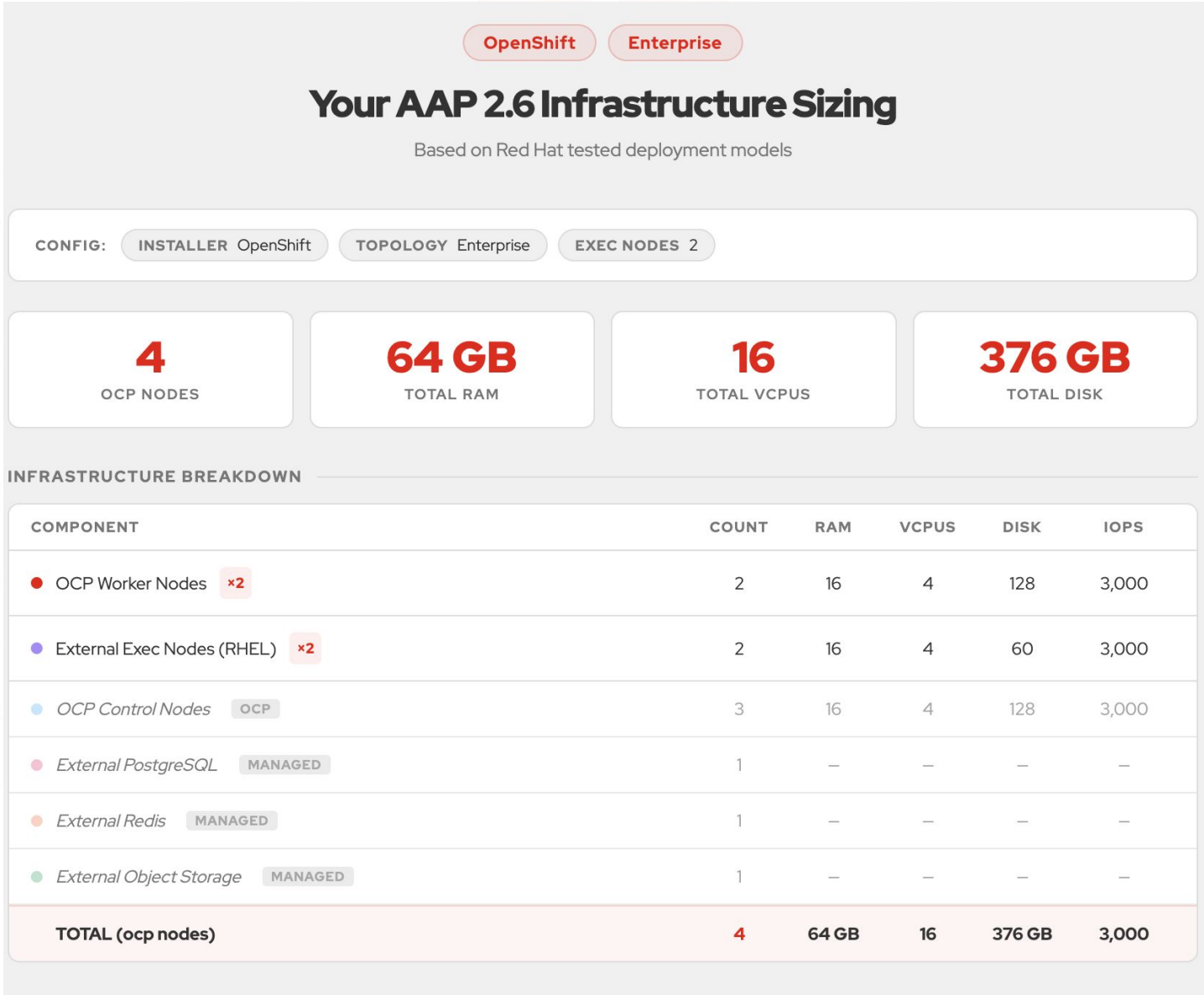
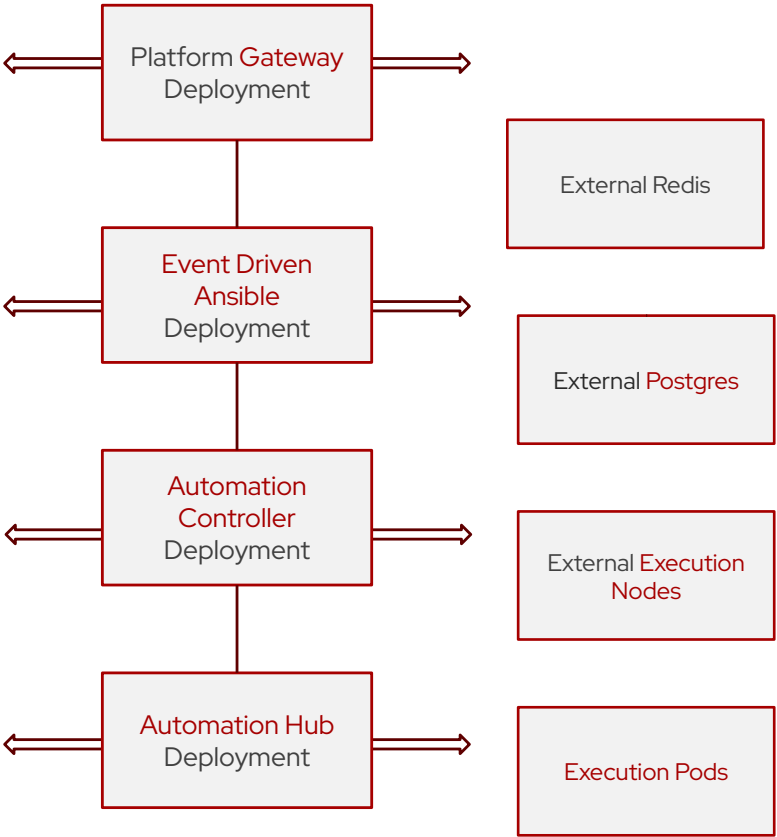
660 GB
TOTAL DISK

Platform Gateway × 2 + Automation Controller × 2 + Private Automation Hub × 2 + Event-Driven Ansible × 2 + Hop + Execution × 2 = 11 VMs

INFRASTRUCTURE BREAKDOWN

COMPONENT	COUNT	RAM	VCPUS	DISK	IOPS
● Platform Gateway + Redis (HA) ×2	2	16	4	60	3,000
● Automation Controller ×2	2	16	4	60	3,000
● Private Automation Hub + Redis ×2	2	16	4	60	3,000
● Event-Driven Ansible + Redis ×2	2	16	4	60	3,000
● Hop Node	1	16	4	60	3,000
● Execution Nodes ×2	2	16	4	60	3,000
● HAProxy Load Balancer EXTERNAL	1	4	2	20	1,000
● External Database (PG 15+) EXTERNAL	1	16	4	60	3,000
TOTAL (managed vms)	11	176 GB	44	660 GB	3,000

Operator Enterprise

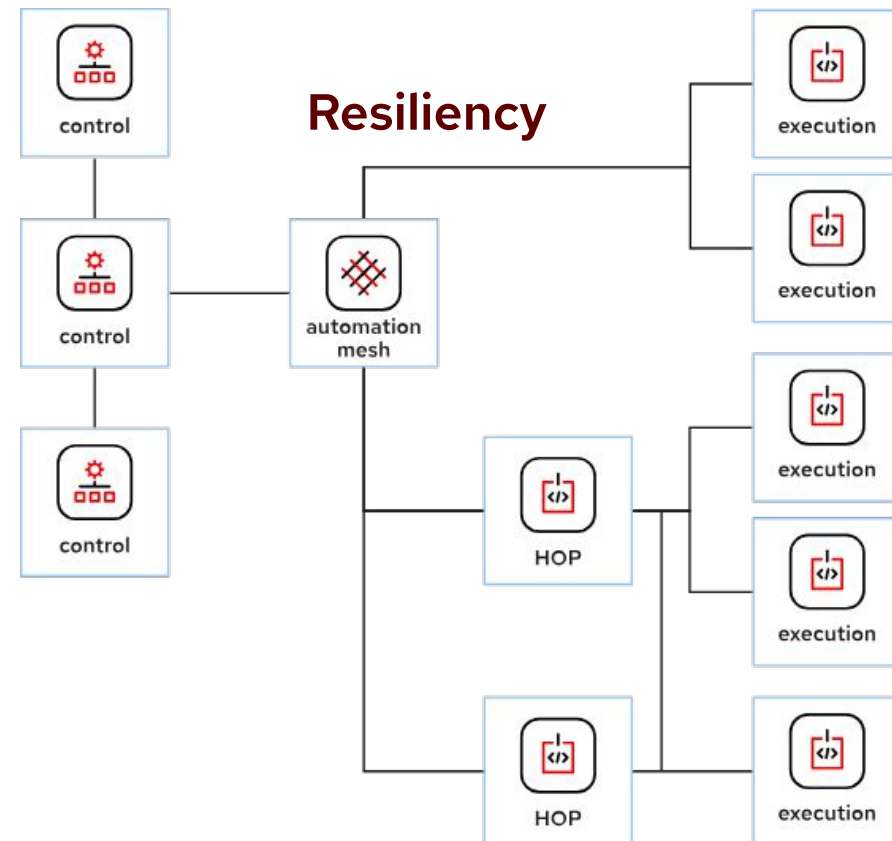
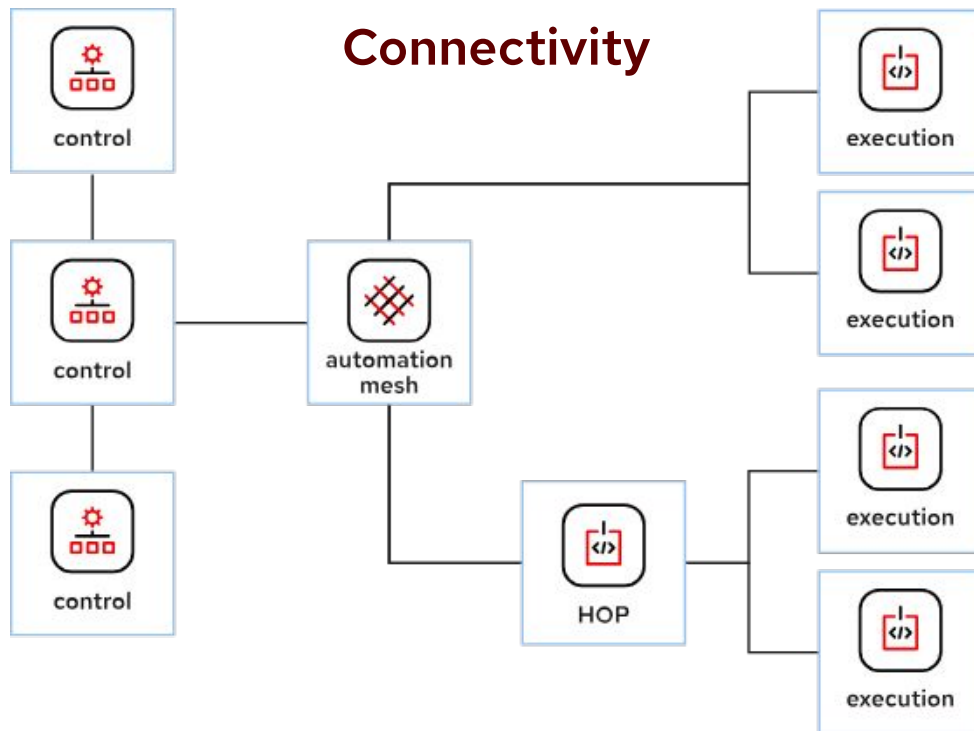


What about **execution nodes**?



Ansible Automation Platform Execution

Overcoming Constrained Networks & Resilience with Hop and Execution Nodes



High Priority Automation Execution

Using a High Priority Queue to Control Order of Execution in Ansible Automation Platform

◀ Back to Jobs Details Output			
Job ID	24	Status	✓ Successful
Finished	4/2/2024, 1:48:53 PM	Job Template	Demo Job Template
Launched By	admin	Inventory ?	Demo Inventory
Project Update Status ?	✓ Successful	Revision	347e44fea036c94d5f60e544de006453ee5c71ad
Verbosity ?	0 (Normal)	Execution Environment ?	Automation Hub Default execution environment
Controller Node	autoctl2.btp2b.internal	Instance Group ?	Protected-high

Openshift



+ 8 exec. nodes



Containerized



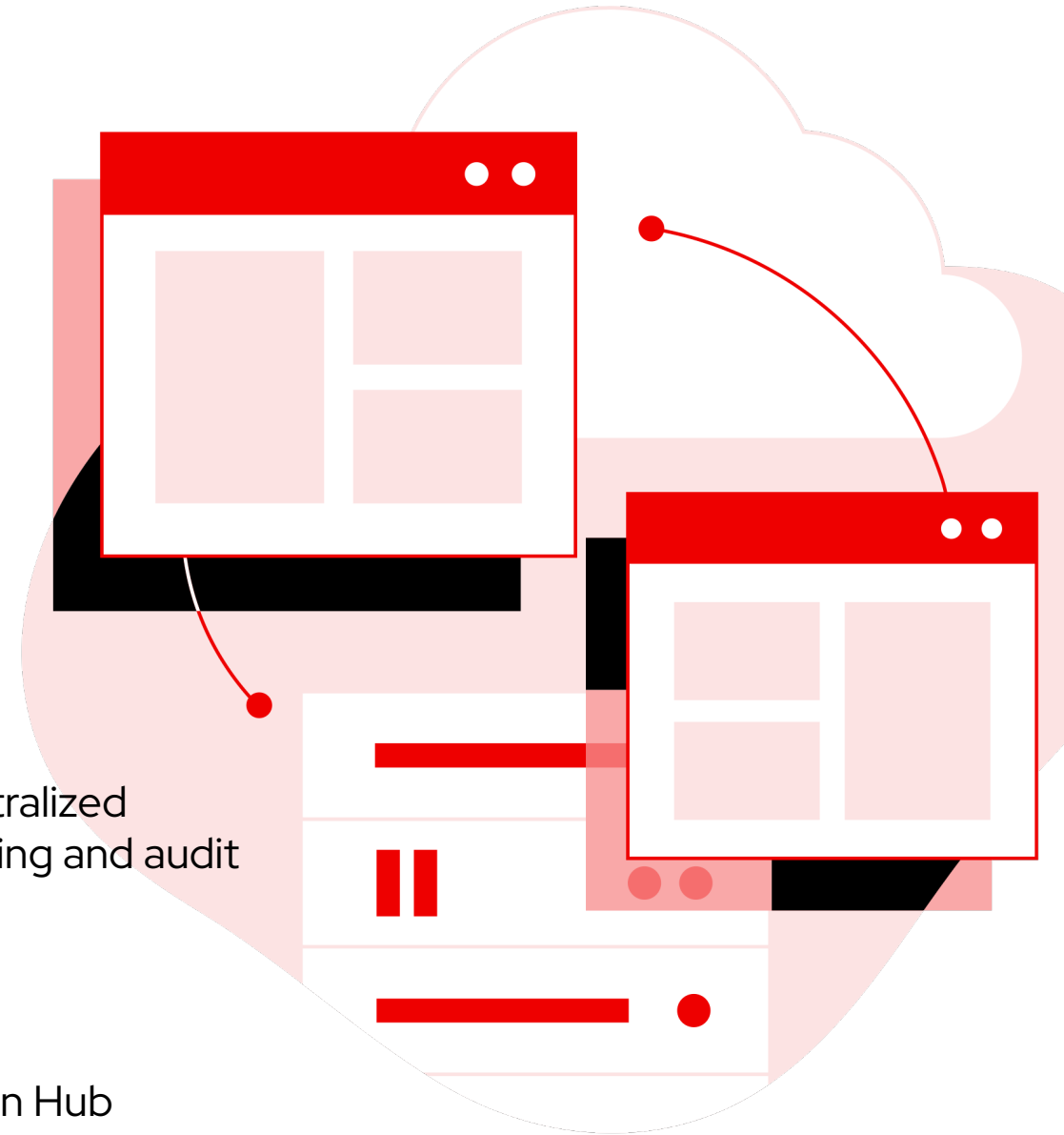
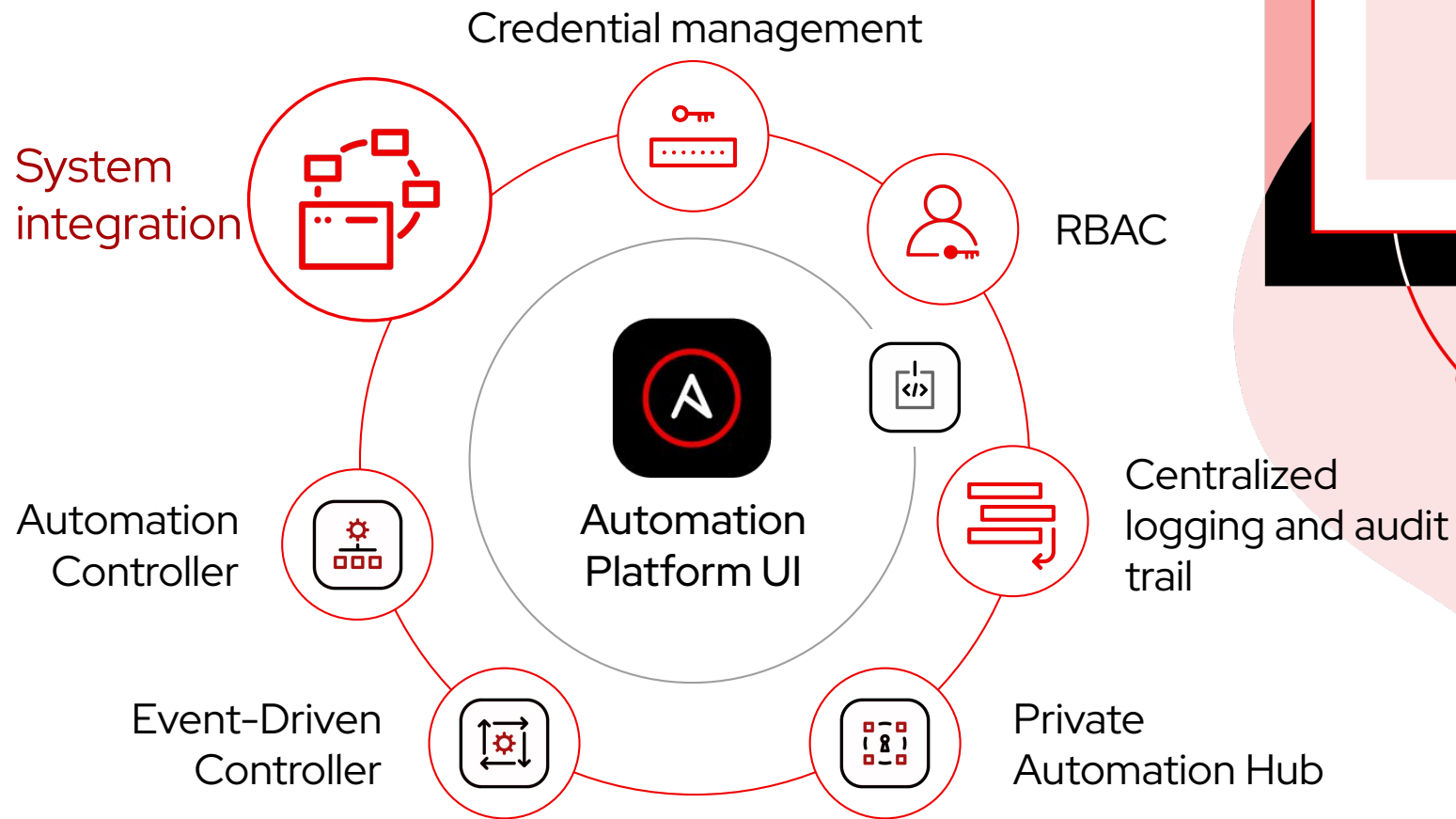
+ 8 exec. nodes



Closing notes: there are other things you need beyond a good architecture...



The Integrated Platform





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5th November 2026, House of Commons

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For 2026, our Judges are Laura Czsjkowski, Kunal Kushwaha, and May Cheung.

It'll be on 5th November 2026, hosted by Chi Onwurah MP at the House of Commons.



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