TRA UAE
SRS Sites

The Internet

Links to ISP1
Links to ISP2
P2P Link to alternative site
Edge
Edge Routers

Tunnel Routers
TR-front

Edge Firewalls

IDS 1
Tap Port

Whois-PS
SRS-PS
EPP-PS
Web-FE
Zonefile
Escrow

DNS

Mail/DNS

Packet Shapers
Packet Shapers
Packet Shapers
EPP-FE
SRS-FE
Whois-FE

Load Balancers
Load Balancers
Load Balancers
Load Balancers
Web-BE
EPP-BE
SRS-BE
Whois-BE

DNS 1
DNS 2

Mail/DNS 1
Mail/DNS 2
Escrow 1
Escrow 2
Zonefile Access 1
Web 1
Web 2
EPP 1
EPP 2
SRS Web 1
SRS Web 2
WhoIs 1
WhoIs 2

SRS-int
EPP-int
Mail/DNS/Web-int
Whois-int
DNS-int
Management

Back-end firewalls
RAC
DNS Update

Mgmt 1
Mgmt 2
Mgmt 3
Backup 1

RAC Node 1
RAC Node 2

DNS Update 1
DNS Update 2

SCSI
Non-IP Fibre channel

PDUs
Serial Console
Environment Monitor
Tape Library

SAN

Non-IP Infiniband

Infiniband Switches

HSM

HSMs

TR-back

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EPP service (front-end)
Physical redundancy

The Internet

Link to ISP1   Link to ISP2

Edge
VLAN [300]

Edge Router 1   Edge Router 2

Edge Firewall **active**   fail over cable   Edge Firewall **standby**

EPP-PS
VLAN [202]

Switch 1   Switch 2

Packet Shaper **active**   fail over cable   Packet Shaper **standby**

EPP-FE
VLAN [302]

Load Balancer **active**   fail over cable   Load Balancer **standby**

EPP-BE
VLAN [12]

802.1q Trunks

EPP 1   EPP 2
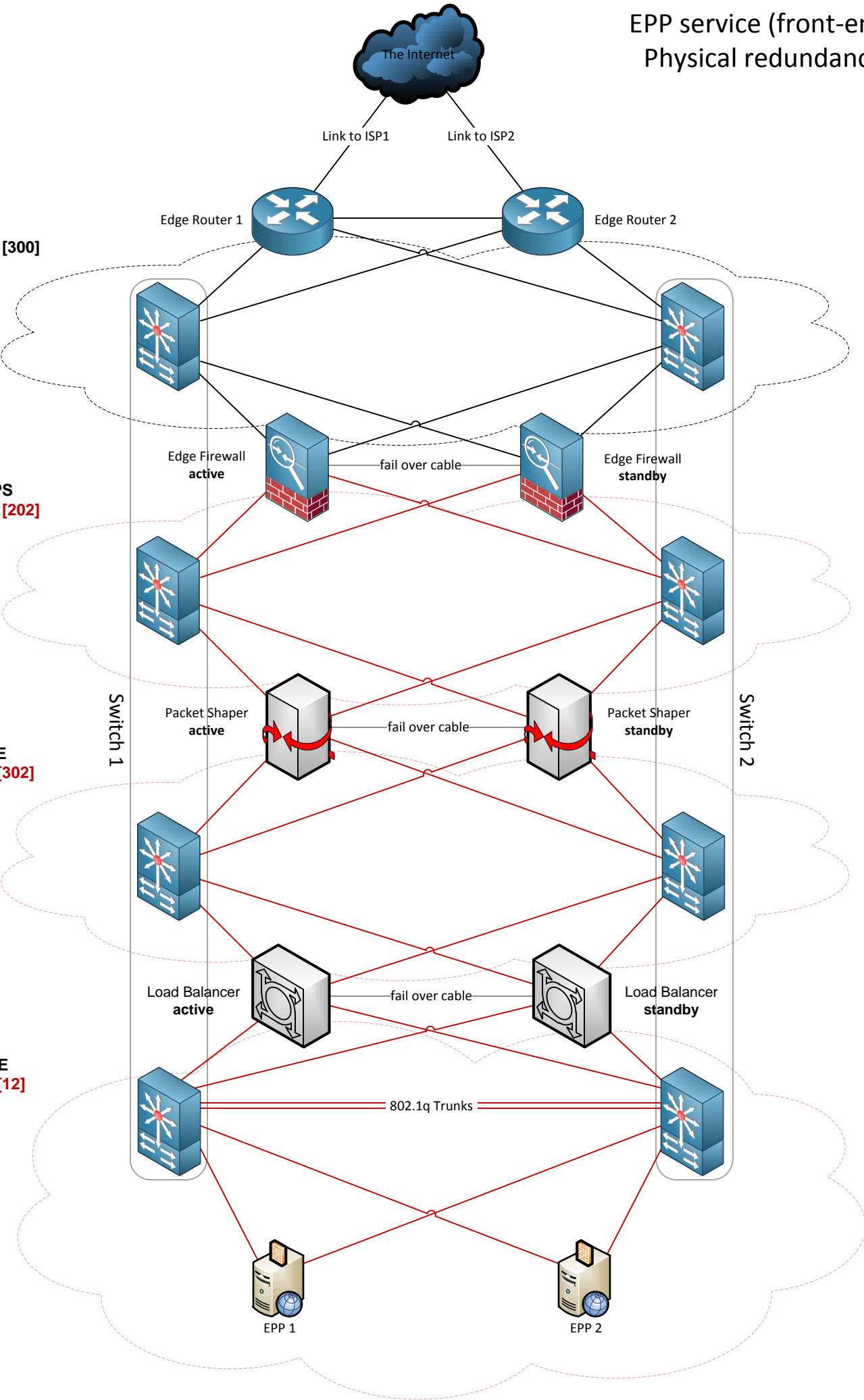
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EPP service (back-end)
Physical redundancy

EPP-int
VLAN [98]

EPP 1

EPP 2

Switch 1

802.1q Trunks

Switch 2

RAC
VLAN [94]

Back-end Firewall
active

fail over cable

Back-end Firewall
standby

802.1q Trunks

Non-IP network
Fibre channel

RAC Node 1

RAC Node 2

SAN 1

SAN 2

Non-IP network
Infiniband

Infiniband switch 1

Infiniband switch 2

RAC Node 1

RAC Node 2
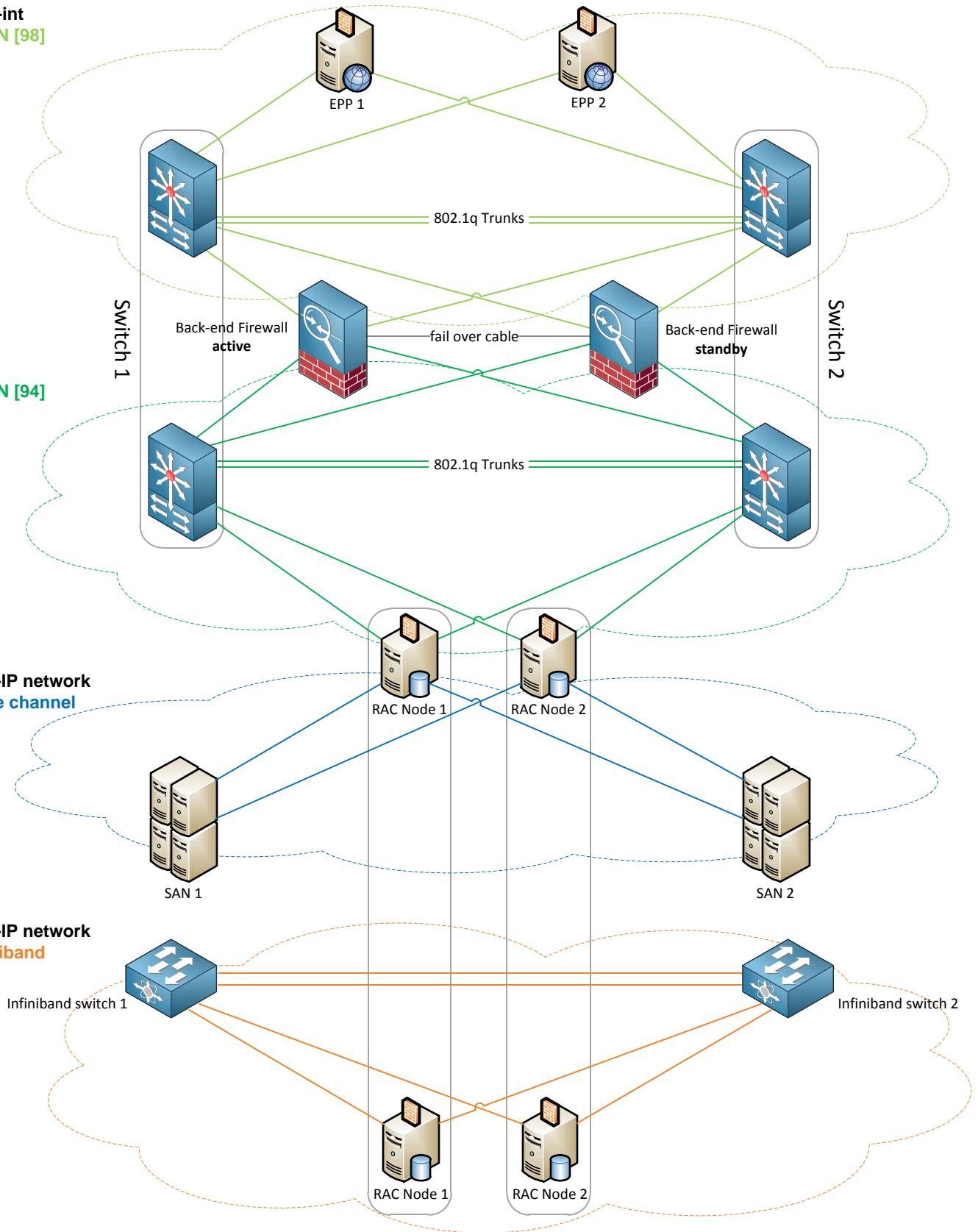
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EPP service. Data flow.

Registrar

Making an EPP request to EPP SRS service — ①

ISP
Internet connectivity

The Internet

Edge

Route traffic to firewall — ②

Route traffic to EPP client — ⑫

Edge Router

EPP-PS

Validate the packets and pass them through — ③

Validate the packets and pass them through — ⑪

Edge Firewall

EPP-FE

Pass traffic through — ④

Using bandwidth management scheme, send results — ⑩

Packet Shaper

EPP-BE

Based on configuration select one of the servers — ⑤

Send results to EPP client — ⑨

Load Balancer

EPP-int

Select a RAC node and send a request to get/change information — ⑥

Send results back to active load balancer — ⑧

EPP Server

RAC

Validate the packets and pass them through

Validate the packets and pass them through — ⑦

Back-end Firewall

Non-IP network
Fibre channel

Collect/change information

Send requested data/changed data status information to EPP server

RAC Node

SAN

TRA UAE
SRS Portal (front-end)
Physical redundancy

The Internet

Link to ISP1   Link to ISP2

Edge Router 1   Edge Router 2

Edge
VLAN [300]

Edge Firewall
active   fail over cable   Edge Firewall
standby

SRS-PS
VLAN [203]

Switch 1   Switch 2

Packet Shaper
active   fail over cable   Packet Shaper
standby

SRS-FE
VLAN [303]

Load Balancer
active   fail over cable   Load Balancer
standby

SRS-BE
VLAN [13]

802.1q Trunks

SRS Web 1   SRS Web 2
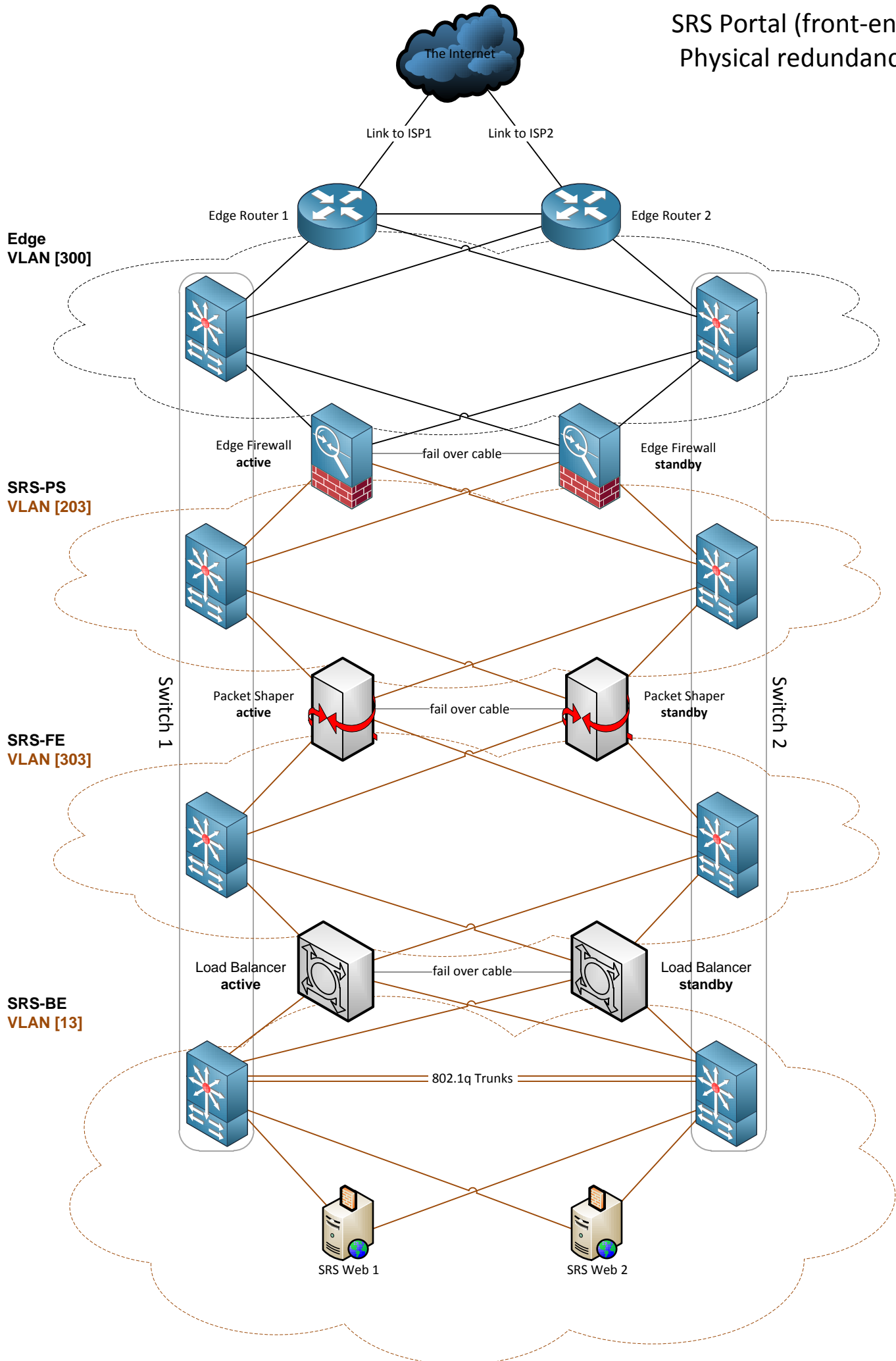
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SRS Portal (back-end)
Physical redundancy

SRS-int
VLAN [97]

Switch 1

SRS Web 1

SRS Web 2

802.1q Trunks

Back-end Firewall
active

fail over cable

Back-end Firewall
standby

Switch 2

RAC
VLAN [94]

802.1q Trunks

Non-IP network
Fibre channel

RAC Node 1

RAC Node 2

SAN 1

SAN 2

Non-IP network
Infiniband

Infiniband switch 1

Infiniband switch 2

RAC Node 1

RAC Node 2
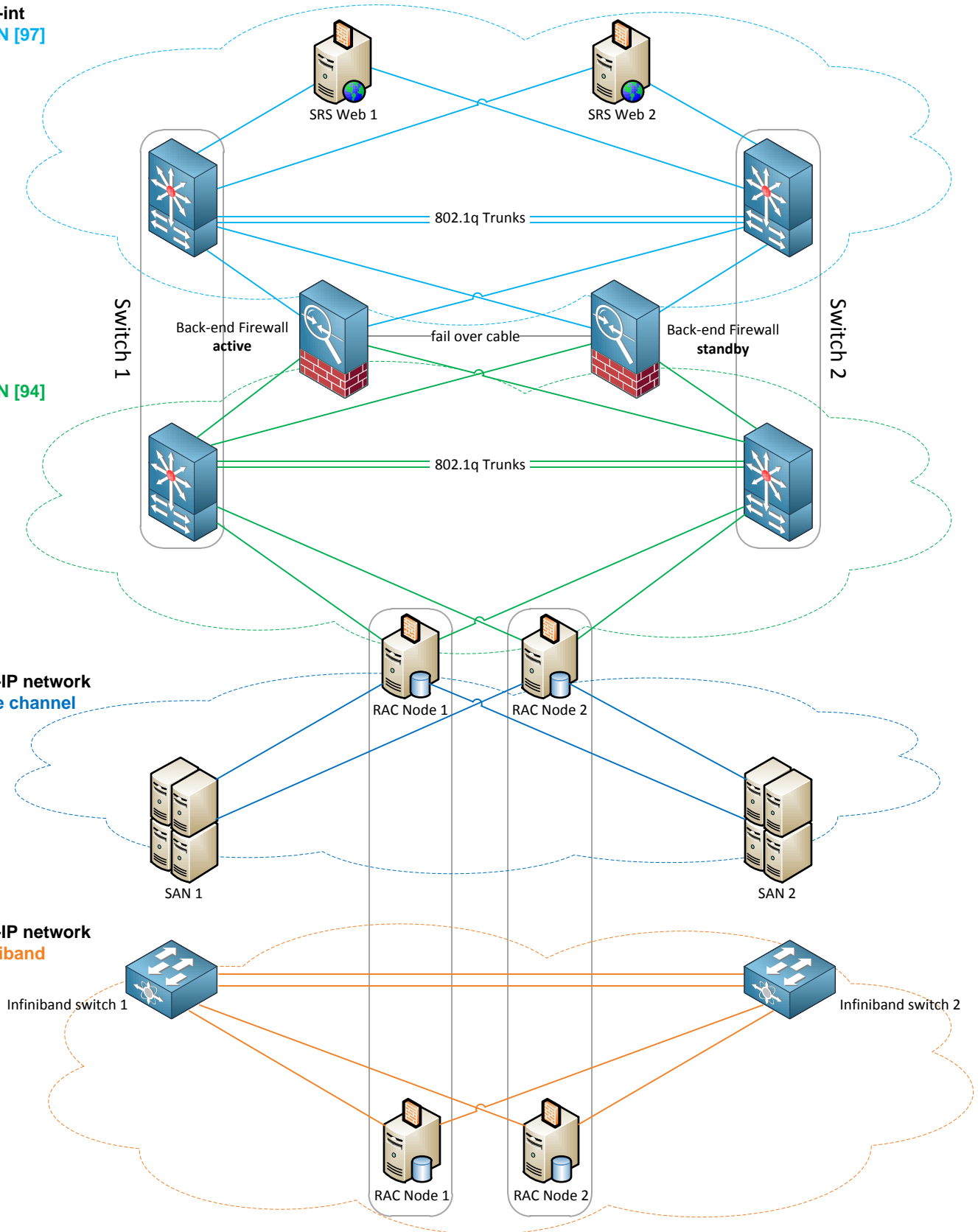
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SRS Portal. Data flow.