

Internal IP Address Plan

Autonomous systems

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AS65534      AS-PRG
AS65533      AS-BRQ
AS65532      AS-B48
AS65531      AS-B48-2

```

Internal ASNs and connect prefixes

```

AS4294967294  [MAX INTERNAL ASN]

AS42**-----  Location
  00           Prague
  01           Brno
AS42--***---  Rack
  000         PRG-R-4-7
  001         PRG-R-14-7
AS42-----***  Node / switch #
  [000-899 nodes]
  [900-999 switches]

AS4200000901 MAI-PRG-R-4-7-1      172.16.253.0/24
2a03:3b40:42:0::/64
AS4200000902 MAI-PRG-R-4-7-2      172.16.252.0/24
2a03:3b40:42:1::/64

AS4200001901 MAI-PRG-R-14-7-1    172.16.251.0/24
2a03:3b40:42:2::/64
AS4200001902 MAI-PRG-R-14-7-2    172.16.250.0/24
2a03:3b40:42:2::/64

AS4200001001 node1.stg
AS4200001002 node2.stg

??4201000900 MAI-BRQ-R-????-1    172.19.253.0/24
2a03:3b40:42:2::/64???
??4201000901 MAI-BRQ-R-????-2    172.19.252.0/24
2a03:3b40:42:2::/64???

??4201000001 node?.brq

```

```

=[MAI-PRG-
R-4-7-1]=====
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-- INTERFACE -- PEER-ASN ----- TARGET ----- IPv4 -----
----- IPv6 -----
Port 10G 07 4200000007 <-> node2.prg 172.16.253.25/30
2a03:3b40:42:0:07::1/80
Port 10G 08 4200000008 <-> node7.prg 172.16.253.29/30
2a03:3b40:42:0:08::1/80
Port 10G 09 4200000009 <-> node4.prg 172.16.253.33/30
2a03:3b40:42:0:09::1/80
Port 10G 10 4200000010 <-> node1.pgnd 172.16.253.37/30
2a03:3b40:42:0:10::1/80
Port 10G 11 4200000011 <-> node1.prg 172.16.253.41/30
2a03:3b40:42:0:11::1/80
Port 10G 12 4200000012 <-> node8.prg 172.16.253.45/30
2a03:3b40:42:0:12::1/80
Port 10G 13 4200000013 <-> node3.prg 172.16.253.49/30
2a03:3b40:42:0:13::1/80
Port 10G 14 4200000014 <-> node13.prg 172.16.253.53/30
2a03:3b40:42:0:14::1/80
Port 10G 15 4200000015 <-> node12.prg 172.16.253.57/30
2a03:3b40:42:0:15::1/80
Port 10G 16 4200000016 <-> node10.prg 172.16.253.61/30
2a03:3b40:42:0:16::1/80
Port 10G 17 4200000017 <-> node9.prg 172.16.253.65/30
2a03:3b40:42:0:17::1/80
Port 10G 18 4200000018 <-> node5.prg 172.16.253.69/30
2a03:3b40:42:0:18::1/80
Port 10G 19 4200000019 <-> node6.prg 172.16.253.73/30
2a03:3b40:42:0:19::1/80
Port 10G 20 4200000020 <-> node11.prg 172.16.253.77/30
2a03:3b40:42:0:20::1/80
Port 10G 21 4200000021 <-> node14.prg 172.16.253.81/30
2a03:3b40:42:0:21::1/80
Port 40G 49 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 49
172.16.253.193/30 2a03:3b40:42:0:49::1/80
Port 40G 51 4200001901 <-> MAI-PRG-R-14-7-1 Port 40G 51
172.16.253.201/30 2a03:3b40:42:0:51::1/80
Port 40G 53 4200001902 <-> MAI-PRG-R-14-7-2 Port 40G 53
172.16.253.209/30 2a03:3b40:42:0:53::1/80

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=[MAI-PRG-
R-4-7-2]=====
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```

-- INTERFACE -- PEER-ASN ----- TARGET ----- IPv4 -----
----- IPv6 -----
Port 10G 07 4200000007 <-> node2.prg 172.16.252.25/30
2a03:3b40:42:1:07::1/80
Port 10G 08 4200000008 <-> node7.prg 172.16.252.29/30
2a03:3b40:42:1:08::1/80
Port 10G 09 4200000009 <-> node4.prg 172.16.252.33/30
2a03:3b40:42:1:09::1/80

```

Port 10G 10	4200000010	<->	node1.pgnd	172.16.252.37/30
2a03:3b40:42:1:10::1/80				
Port 10G 11	4200000011	<->	node1.prg	172.16.252.41/30
2a03:3b40:42:1:11::1/80				
Port 10G 12	4200000012	<->	node8.prg	172.16.252.45/30
2a03:3b40:42:1:12::1/80				
Port 10G 13	4200000013	<->	node3.prg	172.16.252.49/30
2a03:3b40:42:1:13::1/80				
Port 10G 14	4200000014	<->	node13.prg	172.16.252.53/30
2a03:3b40:42:1:14::1/80				
Port 10G 15	4200000015	<->	node12.prg	172.16.252.57/30
2a03:3b40:42:1:15::1/80				
Port 10G 16	4200000016	<->	node10.prg	172.16.252.61/30
2a03:3b40:42:1:16::1/80				
Port 10G 17	4200000017	<->	node9.prg	172.16.252.65/30
2a03:3b40:42:1:17::1/80				
Port 10G 18	4200000018	<->	node5.prg	172.16.252.69/30
2a03:3b40:42:1:18::1/80				
Port 10G 19	4200000019	<->	node6.prg	172.16.252.73/30
2a03:3b40:42:1:19::1/80				
Port 10G 20	4200000020	<->	node11.prg	172.16.252.77/30
2a03:3b40:42:1:20::1/80				
Port 10G 21	4200000021	<->	node14.prg	172.16.252.81/30
2a03:3b40:42:1:21::1/80				
Port 40G 49	4200000901	<->	MAI-PRG-R-4-7-1	Port 40G 49
172.16.253.194/30 2a03:3b40:42:0:49::2/80				
Port 40G 51	4200001902	<->	MAI-PRG-R-14-7-2	Port 40G 51
172.16.252.201/30 2a03:3b40:42:1:51::1/80				
Port 40G 53	4200001901	<->	MAI-PRG-R-14-7-1	Port 40G 53
172.16.252.209/30 2a03:3b40:42:1:53::1/80				

= [MAI-PRG-R-14-7-1] =====
 =====

-- INTERFACE --	PEER-ASN	TARGET	IPv4	
-----	-----	-----	-----	
-----	-----	-----	-----	
Port 10G 01	4200001001	<->	node1.stg	172.16.251.1/30
2a03:3b40:42:2:01::1/80				
Port 10G 02	4200001002	<->	node2.stg	172.16.251.5/30
2a03:3b40:42:2:02::1/80				
Port 10G 03	4200001003	<->	node18.prg	172.16.251.9/30
2a03:3b40:42:2:03::1/80				
Port 10G 04	4200001004	<->	node17.prg	172.16.251.13/30
2a03:3b40:42:2:04::1/80				
Port 10G 05	4200001005	<->	node15.prg	172.16.251.17/30
2a03:3b40:42:2:05::1/80				
Port 10G 46	4200001046	<->	backuper.prg	172.16.251.181/30
2a03:3b40:42:2:46::1/80				
Port 10G 48	65534	<->	edgertr1.prg	172.16.251.189/30
2a03:3b40:42:2:48::1/80				

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Port 40G 49 4200001902 <-> MAI-PRG-R-14-7-2 Port 40G 49
172.16.251.197/30 2a03:3b40:42:2:49::1/80
Port 40G 51 4200000901 <-> MAI-PRG-R-4-7-1 Port 40G 51
172.16.253.202/30 2a03:3b40:42:0:51::2/80
Port 40G 53 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 53
172.16.252.210/30 2a03:3b40:42:1:53::2/80

```

```

=[MAI-PRG-
R-14-7-2]=====
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-- INTERFACE--- PEER-ASN----- TARGET----- IPv4-----
----- IPv6-----
Port 10G 01 4200001001 <-> node1.stg 172.16.250.1/30
2a03:3b40:42:3:01::1/80
Port 10G 02 4200001002 <-> node2.stg 172.16.250.5/30
2a03:3b40:42:3:02::1/80
Port 10G 03 4200001003 <-> node18.prg 172.16.250.9/30
2a03:3b40:42:3:03::1/80
Port 10G 04 4200001004 <-> node17.prg 172.16.250.13/30
2a03:3b40:42:3:04::1/80
Port 10G 05 4200001005 <-> node15.prg 172.16.250.17/30
2a03:3b40:42:3:05::1/80
Port 10G 46 4200001046 <-> backuper.prg
172.16.250.181/30 2a03:3b40:42:3:46::1/80
Port 10G 48 65534 <-> edgertr2.prg
172.16.250.189/30 2a03:3b40:42:3:48::1/80
Port 40G 49 4200001901 <-> MAI-PRG-R-14-7-2 Port 40G 49
172.16.251.198/30 2a03:3b40:42:2:49::2/80
Port 40G 51 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 51
172.16.252.202/30 2a03:3b40:42:1:51::2/80
Port 40G 53 4200000901 <-> MAI-PRG-R-4-7-1 Port 40G 53
172.16.253.210/30 2a03:3b40:42:0:53::2/80

```

IP Summary

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GLOBAL ALLOCATION: 172.16.0.0 - 172.31.255.255

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```

172.16.0.0 - 172.16.255.255 VPSFREE-PRG
172.17.0.0 - 172.17.255.255 BASE48-BRQ
172.18.0.0 - 172.30.255.255 [RESERVED-LEGACY]
172.19.0.0 - 172.19.255.255 VPSFREE-BRQ
172.20.0.0 - 172.30.255.255 [UNALLOCATED]
172.31.0.0 - 172.31.255.255 MNT-SUBNET

```

VPSFREE-PRG

Allocation:

172.16.0.0/16	VPSFREE - PRG
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Assignments:

NETWORK	ALLOCATION NAME	VLAN #
=====	=====	=====
===		
172.16.0.0/23	VPSFREE - PRG - PROD	200
172.16.2.0/23	VPSFREE - PRG - PGND	210
172.16.4.0/23	VPSFREE - PRG - STG - INT	BGP
172.16.8.0/21	VPSFREE - PRG - PROD - INT	200
172.16.100.0/24	VPSFREE - PRG - LEGACY	100
172.16.101.0/24	VPSFREE - PRG - MGMT	101
172.16.103.0/24	VPSFREE - PRG - SWITCHES	103
172.16.107.0/24	VPSFREE - PRG - VPN	220
172.16.107.0/24	VPSFREE - PRG - VPN	220

BASE48-BRQ

Allocation:

172.17.0.0/16	BASE48 - BRQ
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Assignments:

NETWORK	ALLOCATION NAME	VLAN #
=====	=====	=====
===		
172.17.0.0/24	BASE48 - MGMT	100
-dhcp-	BASE48 - UPC	200
172.17.1.0/24	BASE48 - LAN	201
172.17.2.0/24	BASE48 - WLAN	202
172.17.3.0/24	BASE48 - IOT	203
172.17.4.0/23	BASE48 - RACKBASE	300
172.17.6.0/23	BASE48 - RACKVPSF	301

VPSFREE-BRQ

Allocation:

172.19.0.0/16	VPSFREE - BRQ
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Assignments:

NETWORK	ALLOCATION NAME	VLAN #
172.19.0.0/23	VPSFREE-PRG-PROD	---
172.19.8.0/21	VPSFREE-BRQ-PROD-INT	---
172.19.101.0/24	VPSFREE-PRG-MGMT	101

MNT-SUBNET

Allocation:

172.31.0.0/16	MNT-SUBNET
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Assignments:

NETWORK	ALLOCATION NAME	COMMENT
172.31.0.0/24	PEERING	IPSec /30 tunnels
172.31.0.0/30	PEER-PRG-BRQ-1-1	edge-rtr1.prg <-> edge-rtr1.brq
172.31.0.4/30	PEER-PRG-BRQ-1-2	edge-rtr1.prg <-> edge-rtr2.brq
172.31.0.8/30	PEER-PRG-BRQ-2-1	edge-rtr2.prg <-> edge-rtr1.brq
172.31.0.12/30	PEER-PRG-BRQ-2-2	edge-rtr2.prg <-> edge-rtr2.brq
172.31.0.16/30	PEER-PRG-B48-1-1	edge-rtr1.prg <-> edge-rtr1.b48
172.31.0.20/30	PEER-PRG-B48-2-1	edge-rtr2.prg <-> edge-rtr1.b48
172.31.0.24/30	PEER-PRG-B48-2-1-1	edge-rtr1.prg <-> edge-rtr1.b48-2
172.31.0.28/30	PEER-PRG-B48-2-2-1	edge-rtr2.prg <-> edge-rtr1.b48-2

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