

# OCI Reserved Private IPs Workshop

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# What Are Reserved Private IPs?

- Static IPv4/IPv6 addresses you can take out of the dynamic pool inside a subnet.
- Remain assigned across reboots; can be re-attached to any VNIC in the same subnet.
- Avoids IP churn and simplifies DNS / firewall rules.

# Key Use Cases

- **Failover / HA** move the IP to a standby instance in seconds.
- Blue-Green Deployments swap IP between versions with zero DNS change.
- Maintain Consistent IPs Across Lifecycle Reuse reserved IPs across replacements or re-creations of instances.
- Static IPs for Licensing or Compliance Some apps require fixed IPs for licensing, auditing, or compliance.
- For the stress of the stress of
- Audit & Compliance predictable IPs simplify security policies.

# Feature Highlights

- Supports both IPv4 and IPv6 reserved addresses.
- Integrates with IP Address Insights for subnet-level visibility.
- Console, CLI and Terraform support on day 1.

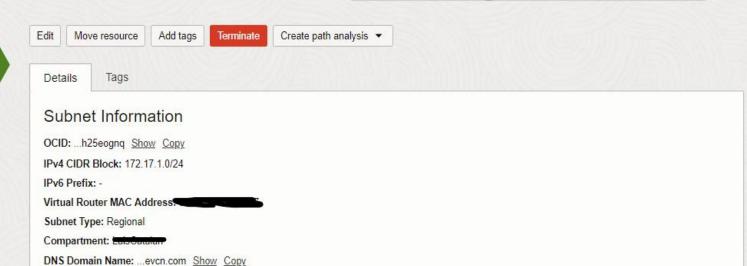
# Reserving an IP

- 1. Navigate to Networking>Virtual Cloud Networks>VCN Name>Subnet Details>IPv4
  addresses or IPv6 addresses
- 2. Click \*\*Add Reserve IP Address\*\*, IPv4 or IPv6 and a specific addresss
- 3. Provide a name & description (and optionally hostname), then add Reserve IP4 or 6 address.
- 4. Attach the reserved IP to a VNIC in the same subnet.
- 5. You can reserve existing subnets private IPs to make sure is not going to be reused in the future by other resources



#### web-tier-subnet1

#### Reserving an IP console



# Resources Security Lists (1) Alarms Logs IP Address Insights CIDR/prefix utilization IPv4 Addresses IPv6 Addresses Filters Lifetime All \$\\$\$

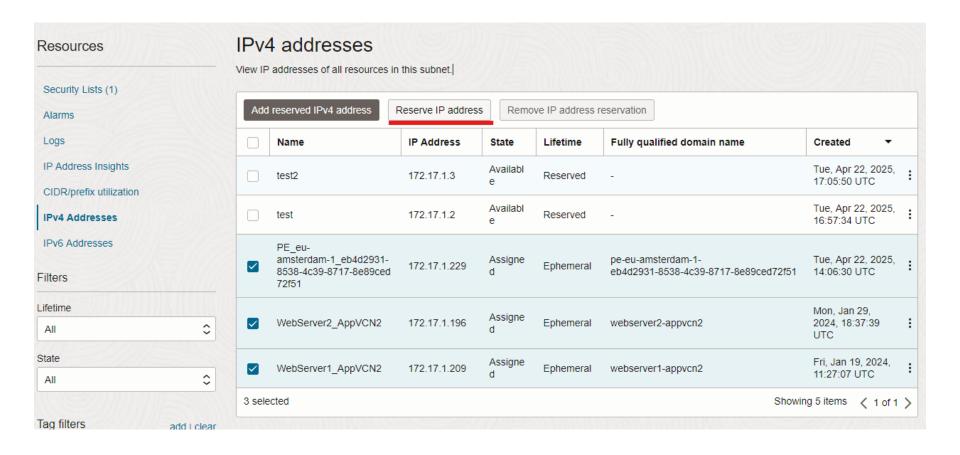
#### IPv4 addresses

View IP addresses of all resources in this subnet.

Name	IP Address	State	Lifetime	Fully qualified domain name	Created ▼
test	172.17.1.2	Availabl e	Reserved	-	Tue, Apr 22, 2025, 16:57:34 UTC
PE_eu- amsterdam-1_eb4d2931-8538-4 c39-8717-8e89ced72f51	172.17.1.229	Assigne d	Ephemeral	pe-eu-amsterdam-1- eb4d2931-8538-4c39-8717-8e89ced72f51	Tue, Apr 22, 2025, 14:06:30 UTC
WebServer2_AppVCN2	172.17.1.196	Assigne d	Ephemeral	webserver2-appvcn2	Mon, Jan 29, 2024, 18:37:39 UTC
WebServer1_AppVCN2	172.17.1.209	Assigne d	Ephemeral	webserver1-appvcn2	Fri, Jan 19, 2024, 11:27:07 UTC

# Reserving existing Ephemeral in bulk

• To reserve all IP addresses in bulk, select the **Name** checkbox, and click **Reserve IP address**. You can also select several IP addresses individually.



### **Best Practices**

- Reserve IPs early in project design to avoid mid-stream renumbering.
- Periodically audit unused reserved IPs to free them for other teams.
- Nemember: reservations are \*\*subnet-scoped\*\*, not VCN-wide.
- Moving an IP briefly interrupts traffic—plan maintenance windows.

Thank you



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