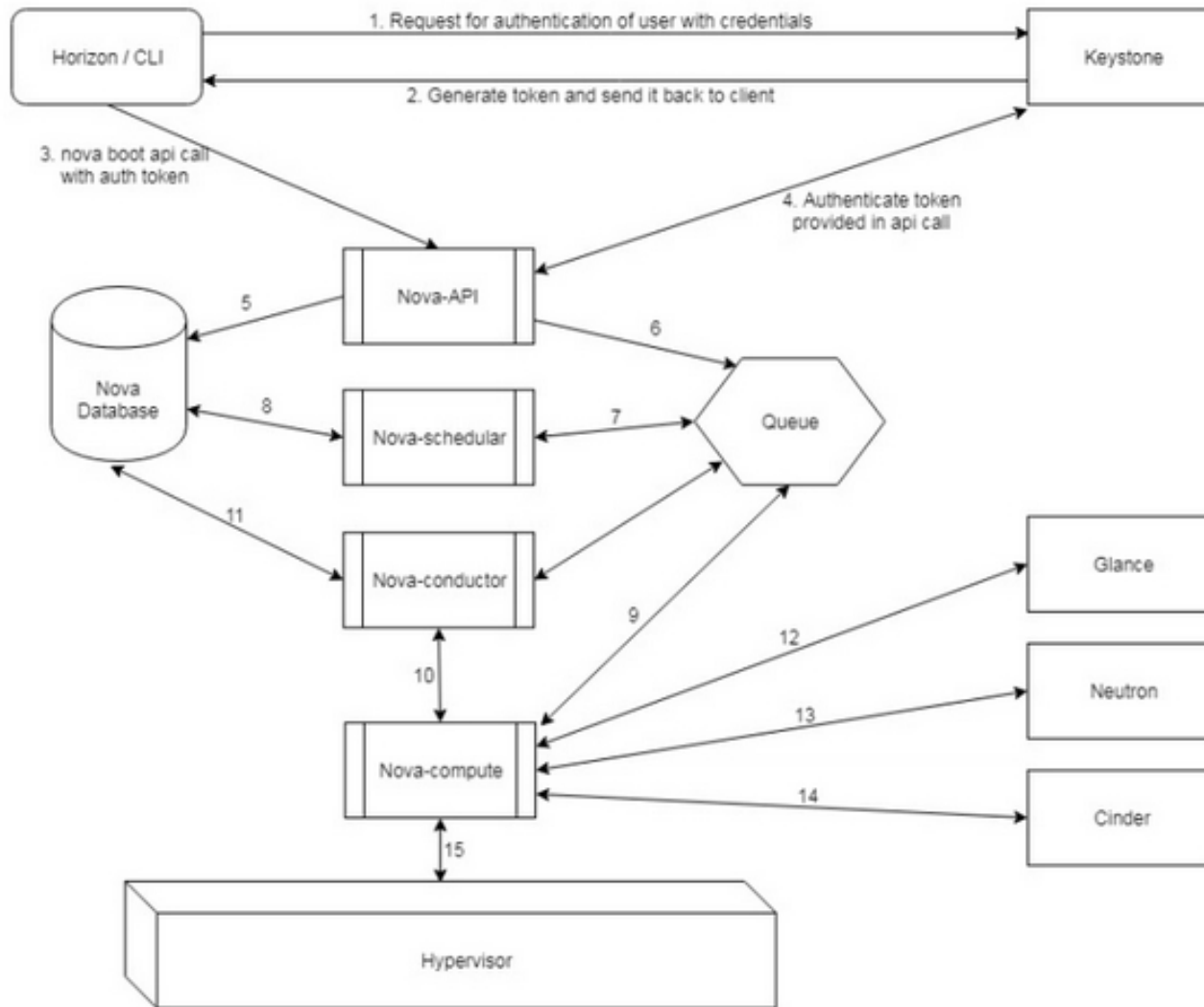


# **Module 6: Nova Fundamentals**

# Agenda

- \* What is Nova ?**
- \* Nova components**
- \* Instance Creation Flow**
- \* Understanding migration**
- \* HA and Availability Zones**

# Instance Flow



# Migration in Openstack

**Migration is the process of moving a server instance from one compute node to another**

**Migration types includes:**

- \* Cold Migration**
- \* Live Migration**
- \* Evacuate**

# Host aggregates

**A host aggregate is a grouping of hosts with associated metadata. A host can be in more than one host aggregate.**

**The concept of host aggregates is only exposed to cloud administrators.**

# Availability Zones

**Availability zones, which are commonly used to specify geographical host groupings, are also a type of host aggregate.**

**Availability zones have a special flag set which allows zones to be seen and selected by normal users to control an instance launch.**

**Administrators can set that flag on any host aggregate to make it visible as an availability zone.**

**One other important difference is that hosts can be members of many aggregates but of only one availability zone**