

Account Service Forwarder	Provides an interface for the Load Balancer service to query the Account Service on remote hosts and provides notifications of Load Balancer Endpoint configuration changes to the Load Balancer service.	Load Balancer service on Admin Nodes and Gateway Nodes
ADC (Administrative Domain Controller)	Maintains topology information, provides authentication services, and responds to queries from the LDR and CMN services.	At least three Storage Nodes containing the ADC service at each site
AMS (Audit Management System)	Monitors and logs all audited system events and transactions to a text log file.	Admin Nodes
Apache Tomcat	Web server for Java-based applications.	Admin Nodes
Avahi Daemon	Handles mDNS, which is used for name resolution and service discovery within the local network.	All nodes
Cache Service	Runs on load balancer (Gateway) nodes and manages a local cache of object content.	Gateway Nodes

Cassandra	Manages the distributed database for object metadata.	Storage Nodes (except data-only)
Cassandra Reaper	Performs automatic repairs of object metadata.	Storage Nodes
Chunk service	Manages erasure-coded data and parity fragments.	Storage Nodes
CMN (Configuration Management Node)	Manages system-wide configurations and grid tasks. Each grid has one CMN service.	Primary Admin Node
DDS (Distributed Data Store)	Interfaces with the Cassandra database to manage object metadata.	Storage Nodes
DMV (Data Mover)	Moves data to cloud endpoints.	Storage Nodes
Dynamic IP (dynip)	Monitors the grid for dynamic IP changes and updates local configurations.	All nodes
Grafana	Used for metrics visualization in the Grid Manager.	Admin Nodes

High Availability	Manages high availability virtual IPs on nodes configured on the High Availability Groups page. This service is also known as the keepalived service.	Admin and Gateway Nodes
Identity (idnt)	Manages local users and groups, authentication, and federates user identities from LDAP and Active Directory.	Storage Nodes that use the ADC service
Lambda Arbitrator	Manages S3 Select SelectObjectContent requests.	All nodes
Load Balancer (nginx-gw)	Provides load balancing of S3 traffic from clients to Storage Nodes. The Load Balancer service can be configured through the Load Balancer Endpoints configuration page. This service is also known as the nginx-gw service.	Admin and Gateway Nodes
LDR (Local Distribution Router)	Manages the storage and transfer of content within the grid.	Storage Nodes

MISCd Information Service Control Daemon	Provides an interface for querying and managing services on other nodes and for managing environmental configurations on the node such as querying the state of services running on other nodes.	All nodes
nginx	Acts as an authentication and secure communication mechanism for various grid services (such as Prometheus and Dynamic IP) to be able to talk to services on other nodes over HTTPS APIs.	All nodes
nginx-gw Load Balancer	Provides load balancing of S3 traffic from clients to Storage Nodes. The Load Balancer service can be configured through the Load Balancer Endpoints configuration page. This service is also known as the nginx-gw service.	Admin and Gateway Nodes
NMS (Network Management System)	Powers the monitoring, reporting, and configuration options that are displayed through the Grid Manager.	Admin Nodes
Node Exporter (Prometheus data collection)	Publishes system-level statistics for Prometheus time series metric collection.	All nodes

ntp	Network time protocol (NTP) service.	All nodes
Persistence	Manages files on the root disk that need to persist across a reboot.	All nodes
Prometheus	Collects time series metrics from services on all nodes.	Admin Nodes
RSM (Replicated State Machine)	Ensures platform service requests are sent to their respective endpoints.	Storage Nodes that use the ADC service
SSM (Server Status Monitor)	Monitors hardware conditions and reports to the NMS service.	An instance is present on every grid node
Server Manager	Manages StorageGRID services.	All nodes
SNMP Agent	Responds to SNMP requests.	Admin Nodes
SNMP Port Management Service	Handles dynamic management of SNMP ports.	All nodes
SSH (Secure Shell)	Handles secure access and remote system management.	All nodes

SSM (System Status Monitor)	Monitors hardware conditions and reports to the NMS service.	All nodes
Stat	Records additional metrics related to S3 buckets.	Storage Nodes
Trace Agent (jaeger-agent)	Receives and processes tracing information submitted by the trace collector (jaeger-collector).	All nodes
Trace Collector (jaeger-collector)	Performs trace collection to gather information for use by technical support. The trace collector service uses open source Jaeger software.	Admin Nodes