ArcGIS Enterprise 12.0

Portal for ArcGIS

TCP: 7120, 7654, 7820, 7830, 7840, HTTPS: 7443, HTTP: 7080 (if configured)

TCP: 7005, 7099, 7120, 7654, & 11211
HTTPS: 7443, HTTP: 7080 (if configured) & 7220

HTTPS: 7443
HTTP: 7080 (if configured)

Ephemeral ports
TCP: 1024-5000 or 49152-65535
TCP: 50432 (for upgrades)

webgisdr tool

HTTPS: 7443

ArcGIS Web Adaptors

HTTP: 80, HTTPS: 443

HTTP: 80, HTTPS: 443

All ArcGIS Server roles

HTTPS: 443

HTTP: 6080, HTTPS: 6443

HTTPS: 6143, HTTP: 6180
TCP: 4181, 4182, 4190, 9191-94

Video Server

HTTPS: 21443

Data Pipelines
Server (beta)

HTTPS: 14443

Raster
Analysis
Server

GeoEvent Server

TCP: 5565, 5575,
2181, 2181, 2190

Mission Server

TCP: 20160

HTTPS: 20443
WSS: 20301

Workflow
Manager

TCP: 13820, 13830,
13840, HTTP: 9880

TCP: 11211

HTTPS, WSS: 13443

Hosting Server

HTTPS: 6443

Notebook Server

HTTPS: 11443

Ephemeral ports,
managed by OS

Knowledge
Server

Image
Hosting
Server

Reality Server
(beta)

HTTPS: 2443

ArcGIS Data Store

TCP: 9006

Ephemeral ports
TCP: 30000 - 65000

Spatiotemporal
big data store

HTTPS: 9220

TCP: 9320
HTTPS: 9220

Relational data store

TCP: 9876

TCP: 45671[1]

TCP: 45672,[1] 9840

HTTPS: 2443

TCP: 9820, 9850

TCP: 25672, 44369, 50432

Object store [2]

HTTPS: 29879

gRPC: 29858, 29859,
28981, 29895

Hadoop RPC: 29860-63

TCP: 11211

Graph store

TCP: 9829

TCP: 9828,
9829,
9830, 9831

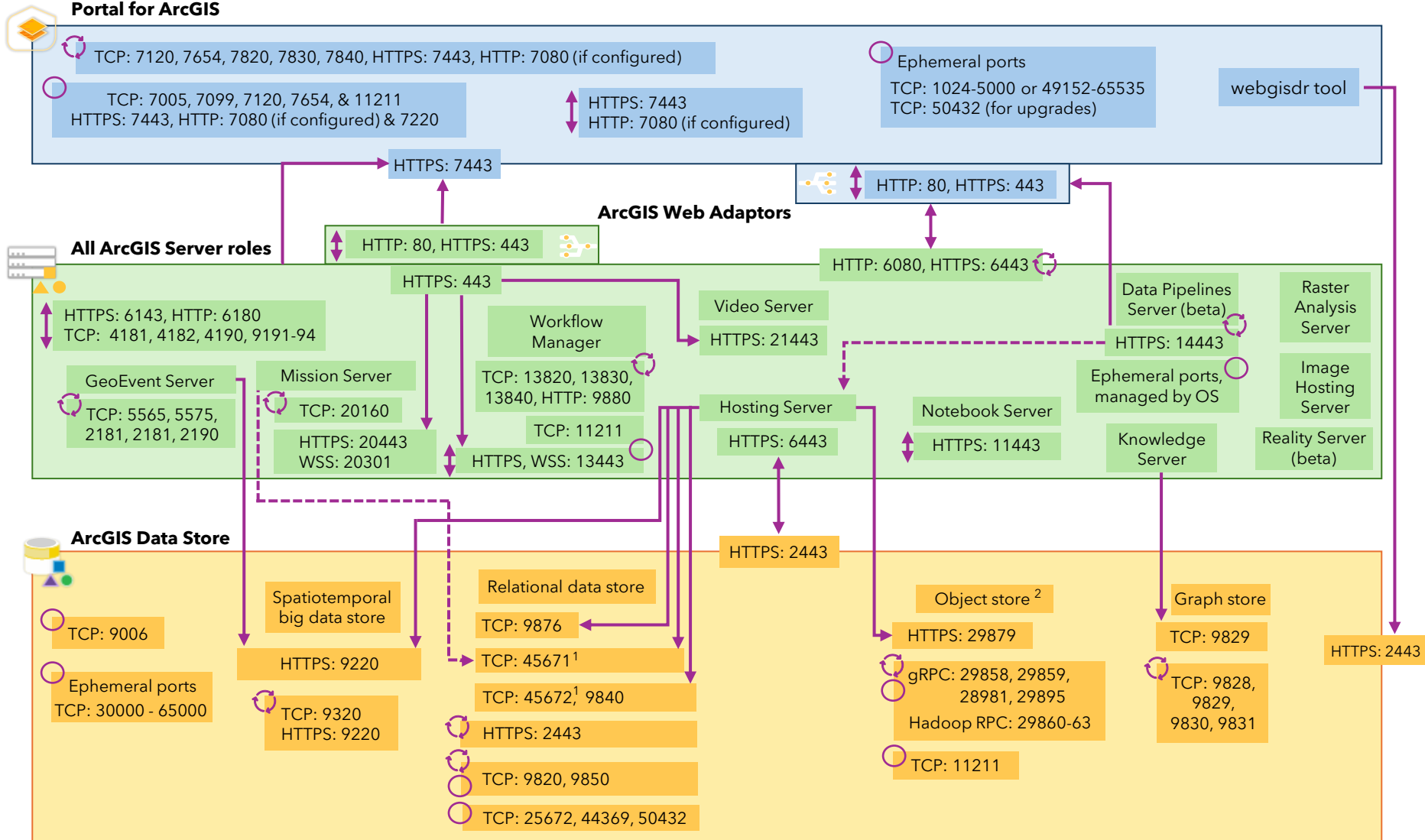HTTPS: 2443

⟳ Ports used for communication between machines in the same ArcGIS Server site, portal, or individual data store.

◯ Ports must be available on each machine. No external communication is needed.

↑ Single direction communication between components or sites.

↕ Inbound & outbound communication between components or sites.

[1] These ports are also needed to communicate with federated ArcGIS Server sites that use web hooks.

[2] When you use ArcGIS tools to deploy on Amazon Web Services or Microsoft Azure, the object store will use a cloud service location instead of ArcGIS Data Store.