Frame on Public Cloud Ports/Protocols Summary
FGA 7
with SGA

Source to Destination	Source IP address	Destination FQDN(s)	Protocol:port
Workload Cloud Connector Appliance (WCCA) to Frame Platform	Public IP address (NAT from private IP address), as seen by Frame Platform	• frame.nutanix.com • cpanel-backend-prod.frame.nutanix.com • gateway-external-api-prod.frame.nutanix.com • cch-prod.frame.nutanix.com • ccc-prod.frame.nutanix.com	• tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS, Secure Web Socket)
WCCA to Workload VMs (Sandbox VM, Production VMs)	Private IP address within VPC/VNET	• Private IP addresses within VPC/VNET	• tcp/8112 (HTTPS)
Workload VMs to Frame Platform	Public IP address (NAT from private IP address), from perspective of Frame Platform	• gateway-external-api-prod.frame.nutanix.com • img.frame.nutanix.com • prod-kds-5683567dcbd608O4cb34.s3.us-east-1.amazonaws.com • prod-sup-5683567dcbd608O4cb34.s3.us-east-1.amazonaws.com • downloads.console.nutanix.com • logs-01.loggly.com (for event logging)	• tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/6514 (TLS)
End user to Frame Platform	Public IP address (NAT from private IP address if end user in private network), from perspective of Frame Platform	• console.nutanix.com • img.frame.nutanix.com • logs-01.loggly.com (for event logging)	• tcp/443 (HTTPS) • tcp/443 (HTTPS) • tcp/6514 (TLS)
Streaming Gateway Appliance (SGA) to Frame Platform	Public IP address	• cpanel-backend.console.nutanix.com • gateway-external-api.console.nutanix.com	• tcp/443 (HTTPS) • tcp/443 (HTTPS)
End user to SGA	Public IP address	• *.<CUSTOMER SGA FQDN> resolving to public IP address	• tcp/443 (HTTPS, Secure Web Socket)
SGA to Workload VM	Private IP address	•Dynamic private IP addresses within VPC/VNET	• tcp/443 (HTTPS, Secure Web Socket)

Notes:
1. Orange rows identify communication paths that traverse the public-private network boundary.