## 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	<ul> <li>frame.nutanix.com</li> <li>cpanel-backend-prod.frame.nutanix.com</li> <li>gateway-external-api-prod.frame.nutanix.com</li> <li>cch-prod.frame.nutanix.com</li> <li>ccc-prod.frame.nutanix.com</li> </ul>	<ul> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS, Secure Web Socket)</li> </ul>
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	<ul> <li>gateway-external-api-prod.frame.nutanix.com</li> <li>img.frame.nutanix.com</li> <li>prod-kds-5683567dcbd60804cb34.s3.us-east-1.amazonaws.com</li> <li>prod-sup-5683567dcbd60804cb34.s3.us-east-1.amazonaws.com</li> <li>downloads.console.nutanix.com</li> <li>logs-01.loggly.com (for event logging)</li> </ul>	<ul> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/443 (HTTPS)</li> <li>tcp/6514 (TLS)</li> </ul>
End user to Frame Platform	Public IP address (NAT from private IP address if end user in private network), from perspective of Frame Platform	<ul> <li>console.nutanix.com</li> <li>img.frame.nutanix.com</li> <li>logs-01.loggly.com (for event logging)</li> </ul>	<ul><li>tcp/443 (HTTPS)</li><li>tcp/443 (HTTPS)</li><li>tcp/6514 (TLS)</li></ul>
Streaming Gateway Appliance (SGA) to Frame Platform	Public IP address	<ul><li>cpanel-backend.console.nutanix.com</li><li>gateway-external-api.console.nutanix.com</li></ul>	<ul><li>tcp/443 (HTTPS)</li><li>tcp/443 (HTTPS)</li></ul>
End user to SGA	Public IP address	*. <customer fqdn="" sga=""> resolving to public IP address</customer>	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.