

Student: Katie Dillan



2020 Olympics Cybersecurity Evaluation Fall, 2018

Part 1. Website Overview (8 Questions)

1. What is the URL of the main 2020 Olympics website?
www.tokyo2020.org
2. What is the IP address of the website?
(Ping from your desktop) [184.30.9.84](#)
3. What is the average latency from your desktop/laptop to this website?
(Use Ping "URL" -t, Ctrl-C to stop)
[49 ms](#)
4. When you are in the Bay Area, where is the website located?
(Use traceroute.org/us/cogent/ipv4 trace, enter URL to see IP, then use ip2location.com)
Lax Los Angeles
5. If you were in Vienna, Austria where is the website located?
(Use traceroute.org/us/cogent/ipv4 trace, enter URL to see IP, then use ip2location.com)
[104.103.88.113](#) is in Vienna
Note: When tracing to URL you will find that the IP address and location vary by city.
6. What is the acronym and complete name of the Regional Internet Registry serving Austria?
[AT, Ripencc](#)
7. What is the registered name associated with the website IP address?
[Registrar: MarkMonitor Inc. Organization: The Tokyo Organising Committee of the Olympic and Paralympic Games](#)
8. What is a Content Distribution Network (CDN)?

A content delivery network (CDN) is a system of distributed servers (network) that deliver pages and other Web content to a user, based on the geographic locations of the user, the origin of the webpage and the content delivery server. Source: Webopedia

Part 2. Online Security (3 Questions)

1. Who verified the certificate for the website? (Hint: Green lock)

DigiCert SHA2 Secure Server CA

2. What is the serial number of the certificate for this site?

0be26088690b5a7aaa0e8ca4d90922e9

3. What is the SSL Report grade for this site?

(Use the Qualys SSL Test site).

Grade A

Note: once ticket sales begin there will be multiple sites with varying grades.

Part 3. Network Infrastructure (4 Questions)

1. Where is the nearest submarine cable landing point to Tokyo?

(Use maps.google.com and submarinecablemap.com)

Manchester, CA and Morro bay, CA

2. What is the name and total length of the cable at this landing point?

Cable Length: 22,682 km

NTT is one of the largest network service providers in Japan. Here is a map of their backbone network:

<http://www.us.ntt.net/assets/global-ip-network-map.jpg>

The Autonomous System Number (ASN) for NTT America is 2914.

3. In how many different countries do they have Public Peering Exchange Points?

26 countries

(Use <https://www.peeringdb.com>)

4. Which NTT Peering Point is closest to Foothill College?

NTT San Jose Lundy Datacenter

- > WHOIS Lookup
- > DNS Lookup
- > RBL Lookup
- > Traceroute
- > IP Lookup
- > API/Bulk Data Access

WHOIS results for tokyo2020.org

Do a deep WHOIS

Business Tools

- > ABR Lookup by Name
- > ABN Lookup by Number
- > ACN Lookup

Domain Name	TOKYO2020.ORG
Registry Domain ID	D107107464-LROR
Registrar WHOIS Server	whois.markmonitor.com
Registrar URL	http://www.markmonitor.com
Updated Date	2018-06-03T00:20:23Z
Creation Date	2005-08-06T11:01:02Z
Registry Expiry Date	2022-08-06T11:01:02Z
Registrar	MarkMonitor Inc.
Registrar IANA ID	292
Registrar Abuse Contact Email	abusecomplaints@markmonitor.com
Registrar Abuse Contact Phone	+1.2083895740
Domain Status	clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Registrant Organization	The Tokyo Organising Committee of the Olympic and Paralympic Games
Registrant State/Province	Tokyo
Registrant Country	JP
Name Server	AS-65-AKAM.NET

```
C:\Users\kadillan>ping -t tokyo2020.org
```

```
Pinging tokyo2020.org [184.30.9.84] with 32 bytes of data:
```

```
Reply from 184.30.9.84: bytes=32 time=49ms TTL=45
```

```
Reply from 184.30.9.84: bytes=32 time=50ms TTL=45
```

```
Reply from 184.30.9.84: bytes=32 time=49ms TTL=45
```

```
Request timed out.
```

```
Reply from 184.30.9.84: bytes=32 time=49ms TTL=45
```

```
Reply from 184.30.9.84: bytes=32 time=49ms TTL=45
```

```
Reply from 184.30.9.84: bytes=32 time=48ms TTL=45
```

```
Reply from 184.30.9.84: bytes=32 time=49ms TTL=45
```

This demo is based on IP2Location [DB24](#) geolocation database and IP2Proxy [PX4](#) anonymous proxy database.

Enter IP Address:

Search

IP Address	184.30.9.84
Country	 United States View More Info »
Region	Texas
City	Dallas
Latitude & Longitude of City	32.783060, -96.806670 (32°46'59"N 96°48'24"W)
ISP	Akamai Technologies Inc.
Local Time	14 Dec, 2018 03:13 PM (UTC -06:00)
Domain	akamai.com
Net Speed	(COMP) Company/T1
IDD & Area Code	(1) 214/469/972
ZIP Code	75201
Weather Station	Dallas (USTX0327)
Mobile Country Code (MCC)	-
Mobile Network Code (MNC)	-
Carrier Name	-
Elevation	129m
Usage Type	(CDN) Content Delivery Network
Anonymous Proxy	No
Proxy Type	(DCH) Hosting Provider, Data Center or CDN Range
Shortcut	https://www.ip2location.com/184.30.9.84
Twitterbot	@ip2location 184.30.9.84
Slackbot	/ip2location 184.30.9.84
Olson Time Zone	America/Chicago



Network Map

Service Locations

Cogent Data Centers

Performance

Peering

Looking Glass

Connected Autonomous Systems

[Request a quote](#)

Looking Glass



This Looking Glass provides you with information relative to backbone routing and network efficiency, providing you with the same transparency that customers on our network receive directly.


Traceroute allows a user to follow a packet through the network to a specific destination. It shows the domain, IP address and the roundtrip packet times as it traces the route to the destination.

Ping can be used to show whether or not a device with a valid Internet address or domain name can return packets sent to it by a specified server.

If you experience a problem with this site that you would like to report, please use the [Contact Cogent Webmaster](#) form.

Test	Router Location	Hostname / IP Address	
IPv4 Trace	US - San Jose	www.tokyo2020.org	Go!

```
traceroute to www.tokyo2020.org (96.6.99.76), 30 hops max, 60 byte packets
 1  gi0-3-0-19.221.agr21.sjc01.atlas.cogentco.com (66.250.250.113)  0.826 ms  0.839 ms
 2  be3100.ccr21.sjc01.atlas.cogentco.com (154.54.31.109)  1.168 ms  0.794 ms
 3  be3177.ccr42.lax01.atlas.cogentco.com (154.54.40.145)  12.758 ms  12.775 ms
 4  be3271.ccr41.lax04.atlas.cogentco.com (154.54.42.102)  12.973 ms  be3360.ccr41.lax04.atlas.co
 5  ntt.lax04.atlas.cogentco.com (154.54.9.30)  12.673 ms  12.690 ms
 6  ae-0.a00.lsanca07.us.bb.gin.ntt.net (129.250.2.104)  12.756 ms  12.761 ms
 7  * *
 8  * *
 9  * *
10  * *
11  * *
12  * *
13  * *
14  * *
15  * *
16  * *
17  * *
18  * *
19  * *
20  * *
21  * *
22  * *
23  * *
24  * *
25  * *
26  * *
27  * *
```

IP Address	96.6.99.76
Country	 United States View More Info »
Region	California
City	Los Angeles
Latitude & Longitude of City	34.052230, -118.243680 (34°3'8"N 118°14'37"W)
ISP	Akamai Technologies Inc.
Local Time	14 Dec, 2018 01:14 PM (UTC -08:00)
Domain	akamai.com
Net Speed	(COMP) Company/T1
IDD & Area Code	(1) 213/310/424/323
ZIP Code	90001
Weather Station	Los Angeles (USCA0638)
Mobile Country Code (MCC)	-
Mobile Network Code (MNC)	-
Carrier Name	-
Elevation	86m
Usage Type	(CDN) Content Delivery Network
Anonymous Proxy	No
Proxy Type	(DCH) Hosting Provider, Data Center or CDN Range
Shortcut	https://www.ip2location.com/96.6.99.76
Twitterbot	@ip2location 96.6.99.76
Slackbot	/ip2location 96.6.99.76
Olson Time Zone	America/Los_Angeles
Multilingual	
Continent Names	North America (EN), उत्तर अमेरिका (NE), Davvi-Amerihkká (SE), 북아메리카 (KO), Nordamerika (DE), América Do Norte (PT) & 75 more
Country Names	United States (EN), Stáit Aontaithe Mheiriceá (GA), അമേരിക്കൻ ഐക്യനാടുകൾ (ML), Ամերիկայի Միացյալ Նահանգներ (HY), संयुक्त राज्य अमेरिका (HI), Spojené státy americké (CS) & 75 more
Region Names	加利福尼亚 (ZH-CN), 加利福尼亚 (ZH-TW)

Looking Glass



This Looking Glass provides you with information relative to backbone routing and network efficiency, providing you with the same transparency that customers on our network receive directly.

Traceroute allows a user to follow a packet through the network to a specific destination. It shows the domain, IP address and the roundtrip packet times as it traces the route to the destination.


Ping can be used to show whether or not a device with a valid Internet address or domain name can return packets sent to it by a specified server.

If you experience a problem with this site that you would like to report, please use the [Contact Cogent Webmaster](#) form.

Test	Router Location	Hostname / IP Address	
IPv4 Trace ▼	AT - Vienna ▼	www.tokyo2020.org	Go!

```

traceroute to www.tokyo2020.org (104.103.88.113), 30 hops max, 60 byte packets
 1  gi0-0-0-19.6.agr11.vie01.atlas.cogentco.com (130.117.254.97)  0.939 ms  1.077 ms
 2  be3328.ccr51.vie01.atlas.cogentco.com (130.117.51.69)  0.756 ms  0.766 ms
 3  130.117.14.182 (130.117.14.182)  10.937 ms  0.588 ms
 4  akamai-ic-317493-win-b4.c.telia.net (62.115.147.101)  0.395 ms  0.411 ms
 5  * *
 6  * *
 7  * *
 8  * *
 9  * *
```


IP Address	104.103.88.113
Country	 Austria View More Info »
Region	Wien
City	Vienna
Latitude & Longitude of City	48.208490, 16.372080 (48°12'31"N 16°22'19"E)
ISP	Akamai Technologies Inc.
Local Time	14 Dec, 2018 10:17 PM (UTC +01:00)
Domain	akamai.com
Net Speed	(COMP) Company/T1
IDD & Area Code	(43) 01
ZIP Code	1010
Weather Station	Vienna (AUX0025)
Mobile Country Code (MCC)	-
Mobile Network Code (MNC)	-
Carrier Name	-
Elevation	177m
Usage Type	(CDN) Content Delivery Network
Anonymous Proxy	No
Proxy Type	(DCH) Hosting Provider, Data Center or CDN Range
Shortcut	https://www.ip2location.com/104.103.88.113
Twitterbot	@ip2location 104.103.88.113
Slackbot	/ip2location 104.103.88.113
<u>Olson Time Zone</u>	Europe/Vienna
Multilingual	
Continent Names	Europe (EN), 欧洲 (ZH-CN), Еуропа (KM), Európa (HU), Espona (BG), Evropa (SN) & 75 more

