Emergency Cyber Incident Prevention

Critical IT Task List for School Systems

Version 1.5

Updated 8/8/2019

This document is provided to School System for the express purpose of assisting schools in locking down and securing the school's network for preventing a potential cyberattack and ensuring schools can continue critical education functions for starting the 2019-20 school year.

This document contains two Addendums which contain the following:

- Addendum A: IPs and Ports for firewall rules
- Addendum B: Example Cisco firewall rule set

Phase One

- Turn off all internet access in all locations.
    - Primary site.
    - All schools (including any private DSL lines).
    - All other ancillary sites.
    - WAN circuits can remain connected for inter-office connectivity. This is only targeted at locations where internet access exits or enters the network.
- Once all above actions in Phase One have been completed and verified, proceed to Phase Two.

Phase Two

- Begin allowing the following critical services out the network in this specific order:
    - Allow DNS servers to communicate over port 53 (TCP and UDP) outbound to known external DNS servers ONLY. Do not allow to all destination IP addresses.
    - Allow NTP communication over port 123 (UDP) outbound to pool.ntp.org
    - Allow all connections necessary for phone systems to function
    - Allow email servers to communicate outbound to required destinations ONLY.
        - If Microsoft O365 is used, only allow email servers to identified Microsoft address ranges.
        - If Google Email is used, only allow email servers to identified Google address ranges.
        - If you have an onsite Exchange environment, only allow SMTP TCP port 25 and 587 to and from your external mail gateways.
        - For all other email services, contact your vendor for assistance.
        - See addendum for specific IP ranges for Microsoft Office 365, Azure, Google, Amazon AWS
    - The following external State of Louisiana IP ranges can be safely allowed:
        - 204.196.0.0/16
        - 159.39.0.0/16
        - 170.145.0.0/16
        - 206.218.180.0/23 - Louisiana Dept. of Education LONI IPs.
        - See addendum for complete list of all LONI network ranges
    - **NOTE:** At this point, connectivity to internal resources should still be working.
- Once all above actions in Phase Two have been completed and services verified by business owner, **reboot all Windows workstations and servers** then proceed to Phase Three

Phase Three

- Begin allowing the following business services out the network in this specific order:
    - Allow connections necessary for <u>payroll, finance, and human capital management systems</u> to function normally. This should only be allowed by explicit source IPs, destination IPs, and destination ports.
    - Allow connections necessary for <u>student systems (e.g. SIS, health, food service, transportation and safety systems)</u> to function. This should only be allowed by explicit source IPs, destination IPs, and destination ports.
    - Allow connections necessary for <u>state online testing systems</u> to function. This should only be allowed by destination IPs, and destination ports. See addendum for DRC IPs.
    - Once all above actions in Phase Three have been completed and verified, proceed to Phase Four.

Phase Four

- Allow connections necessary for other critical systems to function. This should only be allowed by explicit source IPs, destination IPs, and destination ports.
- **No connections should be allowed to the internet over all ports** (ex. Do not add 'any any allow' rules)
- Once all above actions in Phase Four have been completed and verified, proceed to Phase Five.

Phase Five

- Review the Preventive Measures document and implement where possible. Most importantly, ensure backups are stored in an offline / offsite location.
- Look for signs of infection. The Indicators of Compromise checklist is a good starting point
    - If signs of infection are found or suspected, contact your OEP director immediately.
- Once all above actions in Phase Five have been completed and verified, proceed to Phase Six.

Phase Six

- Review and update web content filter policies so that connections to uncategorized / unknown websites and websites using IP addresses instead of DNS names are blocked.
- Allow workstations to access the internet through the web content filter, over TCP ports 80 and 443 only. Do not allow any web traffic that did not pass through the web content filter first. **Servers should not have internet access at all.**

Addendum A: IPs and Ports

Included in this addendum are the various IPs, ports or other network and/or firewall details that schools may need to include within their firewall rules based on the services and software used in the school's environment.

Additional K-12 sites:

System	URL	IP Address
Stanford History Education Group	https://sheg.stanford.edu/	54.210.49.244
Library of Congress	https://www.loc.gov/	104.16.246.35
64 Parishes	https://64parishes.org/	129.81.226.87
Digital History	http://www.digitalhistory.uh.edu/	129.7.235.41
National Geographic	https://www.nationalgeographic.com/	35.170.156.131
EDSITEment	https://edsitement.neh.gov/	23.21.228.79
C3 Teachers	http://c3teachers.org/	67.20.76.133

System	URL	Public IP
School Finder	https://louisianaschools.com/	35.192.220.54
Teach live	https://ldoe.force.com	13.108.232.239
Hoonuit		13.65.236.122
Escholar Portal	https://louisianasecureid.escholar.com/uid/login.do	69.2.53.49
Jotform	https://www.jotform.com/	35.201.118.58
livestream	https://www.livestream.com/	151.101.2.29
Youtube - LDEcomm	https://www.youtube.com/user/LDEcomm	64.233.182.91
NCCER credentialing materials	https://registry.nccer.org/	108.171.169.137
NCCER credentialing materials	https://www.nccer.org/	23.253.236.238
NCCER credentialing materials	https://testing.nccer.org/taoNccerDelivery/Login/testTakers	3.91.110.226
NCCER credentialing materials	https://is3.nccer.org/identity/login?signin=d5c4ee77262d44a618c28dace3218956	108.171.169.137
CATE	https://www.cateportal.net/CATEv3/Index.aspx	69.2.53.54

**The DOE websites below will be accessible if you added the State ranges listed Phase 2:

System	Public IP	Public IP Range
Louisiana Believes	159.39.101.5	159.39.0.0/16 State of Louisiana
Home Study Program	159.39.101.5	159.39.0.0/16 State of Louisiana
Non Publics	159.39.101.5	159.39.0.0/16 State of Louisiana
Scholarship online	159.39.101.5	159.39.0.0/16 State of Louisiana

LA4	**159.39.101.5**	**159.39.0.0/16 State of Louisiana**
Principal/superintendent portal	**204.196.234.5**	**204.196.0.0/16 State of Louisiana Office of Technology Services**
LEADS PTL	**206.218.181.60**	**206.218.180.0/23 Louisiana Dept. of Education**
SIS	**206.218.181.63**	**206.218.180.0/23 Louisiana Dept. of Education**
LEADS 5	**206.218.181.58**	**206.218.180.0/23 Louisiana Dept. of Education**
LEADS 13	**206.218.181.32**	**206.218.180.0/23 Louisiana Dept. of Education**
INSIGHT	**206.218.181.95**	**206.218.180.0/23 Louisiana Dept. of Education**
eGMS	**206.218.181.35**	**206.218.180.0/23 Louisiana Dept. of Education**
PRS	**206.218.181.115**	**206.218.180.0/23 Louisiana Dept. of Education**
TAS	**206.218.181.66**	**206.218.180.0/23 Louisiana Dept. of Education**
Teach LA	**206.218.181.76**	**206.218.180.0/23 Louisiana Dept. of Education**
OnBase	**206.218.181.78**	**206.218.180.0/23 Louisiana Dept. of Education**
Metastorm	**206.218.181.28**	**206.218.180.0/23 Louisiana Dept. of Education**
SER	**206.218.181.41**	**206.218.180.0/23 Louisiana Dept. of Education**
FNS	**206.218.181.105**	**206.218.180.0/23 Louisiana Dept. of Education**
FNS Reports	**206.218.181.79**	**206.218.180.0/23 Louisiana Dept. of Education**
BESE	**206.218.180.16**	**206.218.180.0/23 Louisiana Dept. of Education**
FTP	**206.218.181.104**	**206.218.180.0/23 Louisiana Dept. of Education**

Microsoft O365: (see link)

https://docs.microsoft.com/en-us/office365/enterprise/urls-and-ip-address-ranges?redirectSourcePath=%252fen-us%252farticle%252foffice-365-urls-and-ip-address-ranges-8548a211-3fe7-47cb-abb1-355ea5aa88a2

Amazon (AWS)

Name	**IP Range**
US East (Ohio) (us-east-2)	52.15.247.160/27
US East (N. Virginia) (us-east-1)	52.23.63.224/27
US West (Oregon) (us-west-2)	54.70.204.128/27

DRC Testing Services - Sent via email to districts/schools. If you still need this information please email EdTech@la.gov

Heartlands Systems - Sent via email to districts/schools. If you still need this information please email EdTech@la.gov

Google GMAIL
IP Range
35.190.247.0/24
64.233.160.0/19
66.102.0.0/20
66.249.80.0/20
72.14.192.0/18
74.125.0.0/16
108.177.8.0/21
173.194.0.0/16
209.85.128.0/17
216.58.192.0/19
216.239.32.0/19
172.217.0.0/19
172.217.32.0/20
172.217.128.0/19
172.217.160.0/20
172.217.192.0/19
108.177.96.0/19
35.191.0.0/16
130.211.0.0/22

Louisiana Optical Network Initiative (LONI)

IP Range	Network
104.141.0.0/16	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
104.141.1.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
104.141.2.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
104.141.248.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
104.141.4.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
198.135.204.0/24	Southern University at New Orleans
198.136.130.0/24	Southern University at Shreveport
198.137.167.0/24	Louisiana State University at Eunice
198.176.252.0/24	Louisiana Board of Regents
198.51.92.0/24	Nicholls State University
198.62.176.0/24	Louisiana State University at Alexandria
198.62.89.0/24	Pennington Biomedical Research Center
198.99.188.0/24	Louisiana Universities Marine Consortium (LUMCON)

204.130.214.0/24	The Louisiana School for Math, Science, and the Arts
206.218.180.0/23	Louisiana Dept. of Education
208.100.112.0/22	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.116.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.120.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.125.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.126.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.64.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.68.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.80.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.84.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.88.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
208.100.92.0/22	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.0.0/16	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.0.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.14.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.15.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.16.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.192.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.194.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.195.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.196.0/22	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.200.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.205.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.208.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.210.0/24	Louisiana Delta Community College
76.165.211.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.212.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.214.0/24	Louisiana State University at Eunice
76.165.216.0/23	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.23.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.4.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.6.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.80.0/20	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.96.0/20	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.97.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)
76.165.98.0/24	Louisiana Board of Regents/Louisiana Optical Network Initiative (LONI)

Microsoft Azure

Name	IP Range
uscentraleuap	13.67.153.16/28
uscentraleuap	13.67.154.0/24

uscentraleuap	20.45.192.0/18
uscentraleuap	20.46.0.0/19
uscentraleuap	20.47.105.0/24
uscentraleuap	20.150.23.0/24
uscentraleuap	20.190.138.128/25
uscentraleuap	40.66.120.0/21
uscentraleuap	40.78.200.0/21
uscentraleuap	40.78.208.16/28
uscentraleuap	40.79.232.0/21
uscentraleuap	40.82.0.0/22
uscentraleuap	40.83.24.96/27
uscentraleuap	40.87.183.50/31
uscentraleuap	40.89.32.0/19
uscentraleuap	40.90.132.80/28
uscentraleuap	40.90.142.32/27
uscentraleuap	40.90.149.0/27
uscentraleuap	40.122.0.0/20
uscentraleuap	40.126.10.128/25
uscentraleuap	52.109.140.0/22
uscentraleuap	52.141.224.0/20
uscentraleuap	52.143.198.0/24
uscentraleuap	52.158.176.0/20
uscentraleuap	52.165.104.128/26
uscentraleuap	52.176.225.0/24
uscentraleuap	52.176.232.0/21
uscentraleuap	52.176.240.0/20
uscentraleuap	52.180.160.0/20
uscentraleuap	52.180.176.0/21
uscentraleuap	52.185.56.112/28
uscentraleuap	52.185.112.64/27
uscentraleuap	52.239.177.0/27
uscentraleuap	52.239.238.0/24
uscentraleuap	52.245.69.0/27
uscentraleuap	52.253.156.0/22
uscentraleuap	52.253.232.0/21
uscentraleuap	104.208.48.0/20
uscentraleuap	168.61.136.0/21
uscentral	13.67.128.0/20
uscentral	13.67.144.0/21
uscentral	13.67.152.0/24
uscentral	13.67.153.0/28
uscentral	13.67.153.32/27
uscentral	13.67.153.64/26

uscentral	13.67.153.128/25
uscentral	13.67.155.0/24
uscentral	13.67.156.0/22
uscentral	13.67.160.0/19
uscentral	13.67.192.0/18
uscentral	13.86.0.0/17
uscentral	13.89.0.0/16
uscentral	13.104.147.128/25
uscentral	20.37.128.0/18
uscentral	20.38.96.0/23
uscentral	20.38.122.0/23
uscentral	20.40.192.0/18
uscentral	20.44.8.0/21
uscentral	20.46.224.0/19
uscentral	20.184.64.0/18
uscentral	20.186.192.0/18
uscentral	20.190.134.0/24
uscentral	23.99.128.0/17
uscentral	23.100.80.0/21
uscentral	23.100.240.0/20
uscentral	23.101.112.0/20
uscentral	23.102.202.0/24
uscentral	40.67.160.0/19
uscentral	40.69.128.0/18
uscentral	40.77.0.0/17
uscentral	40.77.161.64/26
uscentral	40.77.166.192/26
uscentral	40.77.175.192/27
uscentral	40.77.175.240/28
uscentral	40.77.182.16/28
uscentral	40.77.182.192/26
uscentral	40.77.184.128/25
uscentral	40.77.197.0/24
uscentral	40.77.255.128/26
uscentral	40.78.128.0/18
uscentral	40.78.221.0/24
uscentral	40.82.16.0/22
uscentral	40.82.96.0/22
uscentral	40.83.0.0/20
uscentral	40.83.16.0/21
uscentral	40.83.24.0/26
uscentral	40.83.24.64/27
uscentral	40.83.24.128/25

uscentral	40.83.25.0/24
uscentral	40.83.26.0/23
uscentral	40.83.28.0/22
uscentral	40.83.32.0/19
uscentral	40.86.0.0/17
uscentral	40.87.182.0/24
uscentral	40.87.183.0/27
uscentral	40.87.183.32/28
uscentral	40.87.183.48/31
uscentral	40.87.183.64/28
uscentral	40.89.224.0/19
uscentral	40.90.16.0/27
uscentral	40.90.21.128/25
uscentral	40.90.22.0/25
uscentral	40.90.26.128/25
uscentral	40.90.128.16/28
uscentral	40.90.129.224/27
uscentral	40.90.130.64/28
uscentral	40.90.132.192/26
uscentral	40.90.137.224/27
uscentral	40.90.140.96/27
uscentral	40.90.140.224/27
uscentral	40.90.141.0/27
uscentral	40.90.142.128/27
uscentral	40.90.142.240/28
uscentral	40.90.144.0/27
uscentral	40.90.144.128/26
uscentral	40.90.148.176/28
uscentral	40.90.149.96/27
uscentral	40.90.151.144/28
uscentral	40.90.151.160/27
uscentral	40.90.154.64/26
uscentral	40.90.156.192/26
uscentral	40.90.158.64/26
uscentral	40.113.192.0/18
uscentral	40.122.16.0/20
uscentral	40.122.32.0/19
uscentral	40.122.64.0/18
uscentral	40.122.128.0/17
uscentral	40.126.6.0/24
uscentral	52.108.208.0/21
uscentral	52.109.8.0/22
uscentral	52.114.128.0/22

uscentral	52.125.128.0/22
uscentral	52.136.30.0/24
uscentral	52.141.192.0/19
uscentral	52.141.240.0/20
uscentral	52.143.193.0/24
uscentral	52.143.224.0/19
uscentral	52.154.0.0/18
uscentral	52.154.128.0/17
uscentral	52.158.160.0/20
uscentral	52.158.192.0/19
uscentral	52.165.0.0/19
uscentral	52.165.32.0/20
uscentral	52.165.48.0/28
uscentral	52.165.49.0/24
uscentral	52.165.56.0/21
uscentral	52.165.64.0/19
uscentral	52.165.96.0/21
uscentral	52.165.104.0/25
uscentral	52.165.128.0/17
uscentral	52.173.0.0/16
uscentral	52.176.0.0/17
uscentral	52.176.128.0/19
uscentral	52.176.160.0/21
uscentral	52.176.176.0/20
uscentral	52.176.192.0/19
uscentral	52.176.224.0/26
uscentral	52.176.224.64/27
uscentral	52.176.224.96/28
uscentral	52.180.128.0/19
uscentral	52.180.184.0/27
uscentral	52.180.184.32/28
uscentral	52.180.185.0/24
uscentral	52.182.128.0/17
uscentral	52.185.0.0/19
uscentral	52.185.32.0/20
uscentral	52.185.48.0/21
uscentral	52.185.56.0/26
uscentral	52.185.56.64/27
uscentral	52.185.56.96/28
uscentral	52.185.56.128/27
uscentral	52.185.56.160/28
uscentral	52.185.64.0/20
uscentral	52.185.80.0/26

uscentral	52.185.81.0/24
uscentral	52.185.88.0/21
uscentral	52.185.96.0/20
uscentral	52.185.112.0/26
uscentral	52.185.112.96/27
uscentral	52.185.120.0/21
uscentral	52.189.0.0/17
uscentral	52.228.128.0/17
uscentral	52.230.128.0/17
uscentral	52.232.157.0/24
uscentral	52.238.192.0/18
uscentral	52.239.150.0/23
uscentral	52.239.177.32/27
uscentral	52.239.177.64/26
uscentral	52.239.177.128/25
uscentral	52.239.195.0/24
uscentral	52.239.234.0/23
uscentral	52.242.128.0/17
uscentral	52.245.68.0/24
uscentral	52.245.69.32/27
uscentral	52.245.69.64/27
uscentral	52.245.69.96/28
uscentral	52.245.69.144/28
uscentral	52.245.69.160/27
uscentral	52.245.69.192/26
uscentral	52.245.70.0/23
uscentral	52.255.0.0/19
uscentral	65.55.144.0/23
uscentral	65.55.146.0/24
uscentral	104.43.128.0/17
uscentral	104.44.88.160/27
uscentral	104.44.91.160/27
uscentral	104.44.92.224/27
uscentral	104.44.94.80/28
uscentral	104.208.0.0/19
uscentral	104.208.32.0/20
uscentral	131.253.36.224/27
uscentral	157.55.108.0/23
uscentral	168.61.128.0/25
uscentral	168.61.128.128/28
uscentral	168.61.128.160/27
uscentral	168.61.128.192/26
uscentral	168.61.129.0/25

uscentral	168.61.129.128/26
uscentral	168.61.129.208/28
uscentral	168.61.129.224/27
uscentral	168.61.130.64/26
uscentral	168.61.130.128/25
uscentral	168.61.131.0/26
uscentral	168.61.131.128/25
uscentral	168.61.132.0/26
uscentral	168.61.144.0/20
uscentral	168.61.160.0/19
uscentral	168.61.208.0/20
uscentral	193.149.72.0/21
useast2euap	20.39.0.0/19
useast2euap	20.47.128.0/17
useast2euap	20.190.138.0/25
useast2euap	40.70.88.0/28
useast2euap	40.74.144.0/20
useast2euap	40.75.32.0/21
useast2euap	40.78.208.0/28
useast2euap	40.79.88.0/27
useast2euap	40.79.88.32/28
useast2euap	40.79.89.0/24
useast2euap	40.79.96.0/19
useast2euap	40.87.169.98/31
useast2euap	40.89.64.0/18
useast2euap	40.90.129.96/27
useast2euap	40.90.137.32/27
useast2euap	40.90.146.192/27
useast2euap	40.91.12.0/28
useast2euap	40.91.12.32/28
useast2euap	40.91.13.0/28
useast2euap	40.126.10.0/25
useast2euap	52.138.64.0/20
useast2euap	52.138.88.0/21
useast2euap	52.143.212.0/23
useast2euap	52.147.128.0/19
useast2euap	52.184.168.16/28
useast2euap	52.184.168.32/28
useast2euap	52.225.136.48/28
useast2euap	52.225.144.0/20
useast2euap	52.225.160.0/19
useast2euap	52.232.150.0/24
useast2euap	52.239.157.224/27

useast2euap	52.239.165.192/26
useast2euap	52.239.184.128/27
useast2euap	52.239.184.176/28
useast2euap	52.239.184.224/27
useast2euap	52.239.185.0/28
useast2euap	52.239.192.128/27
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useast2	40.91.12.208/28

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usnorth	199.30.23.0/24
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usnorth	207.46.193.224/27
usnorth	207.46.198.128/25
usnorth	207.46.200.96/27
usnorth	207.46.200.176/28
usnorth	207.46.202.128/28
usnorth	207.46.205.0/24
usnorth	207.68.174.24/29
usnorth	207.68.174.40/29
usnorth	207.68.174.112/28
usnorth	207.68.174.184/29
ussouth	13.65.0.0/16
ussouth	13.66.0.0/17
ussouth	13.73.240.0/20
ussouth	13.84.0.0/15
ussouth	13.104.144.64/27
ussouth	20.38.104.0/23
ussouth	20.45.0.0/18
ussouth	20.45.120.0/21
ussouth	20.47.0.0/24
ussouth	20.150.20.128/25
ussouth	20.188.64.0/19
ussouth	20.189.0.0/18
ussouth	20.190.128.0/24
ussouth	23.98.128.0/17
ussouth	23.100.120.0/21
ussouth	23.101.176.0/20
ussouth	23.102.128.0/18
ussouth	40.74.160.0/19
ussouth	40.74.192.0/18
ussouth	40.77.130.192/26
ussouth	40.77.131.0/25
ussouth	40.77.131.128/26
ussouth	40.77.172.0/24
ussouth	40.77.175.224/28
ussouth	40.77.199.0/25
ussouth	40.77.225.0/24
ussouth	40.78.214.0/24

ussouth	40.80.192.0/19
ussouth	40.82.40.0/22
ussouth	40.84.128.0/17
ussouth	40.86.128.0/19
ussouth	40.87.176.0/25
ussouth	40.87.176.128/27
ussouth	40.87.176.160/29
ussouth	40.87.176.174/31
ussouth	40.87.176.184/31
ussouth	40.87.176.192/28
ussouth	40.90.16.128/27
ussouth	40.90.18.64/26
ussouth	40.90.27.64/26
ussouth	40.90.27.128/26
ussouth	40.90.28.64/26
ussouth	40.90.28.128/26
ussouth	40.90.30.160/27
ussouth	40.90.128.224/28
ussouth	40.90.133.96/27
ussouth	40.90.135.128/25
ussouth	40.90.136.160/28
ussouth	40.90.141.192/27
ussouth	40.90.145.96/27
ussouth	40.90.145.160/27
ussouth	40.90.148.0/26
ussouth	40.90.152.160/27
ussouth	40.90.155.0/26
ussouth	40.91.16.0/22
ussouth	40.119.0.0/18
ussouth	40.124.0.0/16
ussouth	40.126.0.0/24
ussouth	52.108.248.0/21
ussouth	52.109.20.0/22
ussouth	52.114.144.0/22
ussouth	52.125.137.0/24
ussouth	52.141.64.0/18
ussouth	52.152.0.0/17
ussouth	52.153.64.0/18
ussouth	52.153.192.0/18
ussouth	52.171.0.0/16
ussouth	52.183.192.0/18
ussouth	52.185.192.0/18
ussouth	52.189.128.0/18

ussouth	52.232.159.0/24
ussouth	52.239.158.0/23
ussouth	52.239.178.0/23
ussouth	52.239.180.0/22
ussouth	52.239.199.0/24
ussouth	52.239.200.0/23
ussouth	52.239.203.0/24
ussouth	52.239.204.0/24
ussouth	52.239.208.0/23
ussouth	52.245.24.0/22
ussouth	52.248.0.0/17
ussouth	52.249.0.0/18
ussouth	52.253.0.0/18
ussouth	52.253.179.0/24
ussouth	52.253.180.0/24
ussouth	52.255.64.0/18
ussouth	65.52.32.0/21
ussouth	65.54.55.160/27
ussouth	65.54.55.224/27
ussouth	70.37.48.0/20
ussouth	70.37.64.0/18
ussouth	70.37.160.0/21
ussouth	104.44.89.0/27
ussouth	104.44.89.64/27
ussouth	104.44.92.64/27
ussouth	104.44.94.160/27
ussouth	104.44.128.0/18
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ussouth	104.210.128.0/19
ussouth	104.210.176.0/20
ussouth	104.210.192.0/19
ussouth	104.214.0.0/17
ussouth	104.215.64.0/18
ussouth	131.253.40.64/28
ussouth	157.55.51.224/28
ussouth	157.55.80.0/21
ussouth	157.55.103.32/27
ussouth	157.55.153.224/28
ussouth	157.55.176.0/20
ussouth	157.55.192.0/21
ussouth	157.55.200.0/22
ussouth	157.55.204.0/27
ussouth	157.55.204.32/28

ussouth	168.62.128.0/19
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ussouth	191.238.144.0/20
ussouth	191.238.160.0/19
ussouth	191.238.224.0/19
uswestcentral	13.71.192.0/18
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uswestcentral	13.104.145.64/26
uswestcentral	20.47.104.0/24
uswestcentral	20.190.136.0/24
uswestcentral	40.77.128.0/25
uswestcentral	40.77.131.192/27
uswestcentral	40.77.131.240/28
uswestcentral	40.77.135.0/24
uswestcentral	40.77.166.0/25
uswestcentral	40.77.166.128/28
uswestcentral	40.77.173.0/24
uswestcentral	40.77.175.32/27
uswestcentral	40.77.182.160/27
uswestcentral	40.77.185.0/25
uswestcentral	40.77.224.16/28
uswestcentral	40.77.224.64/27
uswestcentral	40.77.227.0/24
uswestcentral	40.77.232.0/25
uswestcentral	40.77.235.0/24
uswestcentral	40.77.236.96/27
uswestcentral	40.77.246.0/24
uswestcentral	40.78.218.0/24
uswestcentral	40.90.131.0/27
uswestcentral	40.90.138.192/28
uswestcentral	40.90.139.0/27
uswestcentral	40.90.143.96/27
uswestcentral	40.90.151.0/26
uswestcentral	40.90.151.128/28
uswestcentral	40.90.152.0/25
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uswestcentral	52.109.136.0/22
uswestcentral	52.136.4.0/22
uswestcentral	52.143.214.0/24
uswestcentral	52.148.0.0/18
uswestcentral	52.150.128.0/17
uswestcentral	52.153.128.0/18

uswestcentral	52.159.0.0/18
uswestcentral	52.161.0.0/16
uswestcentral	52.239.164.0/25
uswestcentral	52.239.167.0/24
uswestcentral	52.239.244.0/23
uswestcentral	52.245.60.0/22
uswestcentral	52.253.128.0/20
uswestcentral	64.4.8.0/24
uswestcentral	64.4.54.0/24
uswestcentral	65.55.209.192/26
uswestcentral	104.44.89.96/27
uswestcentral	104.47.224.0/20
uswestcentral	131.253.24.160/27
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uswest2	20.191.64.0/18
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uswest2	23.102.203.0/24
uswest2	23.103.64.32/27
uswest2	23.103.64.64/27
uswest2	23.103.66.0/23
uswest2	40.65.64.0/18
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uswest2	40.77.136.64/28
uswest2	40.77.160.0/27
uswest2	40.77.164.0/24
uswest2	40.77.166.144/32
uswest2	40.77.169.0/24
uswest2	40.77.171.0/24
uswest2	40.77.175.64/27

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uswest2	40.77.182.64/27
uswest2	40.77.185.128/25
uswest2	40.77.186.0/26
uswest2	40.77.186.128/25
uswest2	40.77.187.0/24
uswest2	40.77.198.128/25
uswest2	40.77.199.128/26
uswest2	40.77.200.0/25
uswest2	40.77.224.96/27
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uswest2	40.77.232.128/25
uswest2	40.77.234.224/27
uswest2	40.77.236.64/29
uswest2	40.77.236.128/27
uswest2	40.77.240.128/25
uswest2	40.77.241.0/24
uswest2	40.77.242.0/23
uswest2	40.77.244.0/24
uswest2	40.77.247.0/24
uswest2	40.77.249.0/24
uswest2	40.77.250.0/24
uswest2	40.77.254.128/25
uswest2	40.78.208.32/30
uswest2	40.78.217.0/24
uswest2	40.78.240.0/20
uswest2	40.80.160.0/24
uswest2	40.82.36.0/22
uswest2	40.87.232.0/21
uswest2	40.90.16.192/26
uswest2	40.90.131.32/27
uswest2	40.90.132.48/28
uswest2	40.90.136.224/27
uswest2	40.90.138.208/28
uswest2	40.90.139.32/27
uswest2	40.90.146.32/27
uswest2	40.90.148.192/27
uswest2	40.90.153.0/26
uswest2	40.90.192.0/19
uswest2	40.91.0.0/22
uswest2	40.91.64.0/18
uswest2	40.91.128.0/18
uswest2	40.125.64.0/18

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uswest2	51.141.160.0/19
uswest2	51.143.0.0/17
uswest2	52.96.11.0/24
uswest2	52.108.72.0/24
uswest2	52.109.24.0/22
uswest2	52.112.105.0/24
uswest2	52.112.109.0/24
uswest2	52.114.148.0/22
uswest2	52.136.0.0/22
uswest2	52.137.64.0/18
uswest2	52.143.64.0/18
uswest2	52.143.197.0/24
uswest2	52.143.211.0/24
uswest2	52.148.128.0/18
uswest2	52.149.0.0/18
uswest2	52.151.0.0/18
uswest2	52.156.64.0/18
uswest2	52.156.128.0/19
uswest2	52.158.224.0/19
uswest2	52.175.192.0/18
uswest2	52.183.0.0/17
uswest2	52.191.128.0/18
uswest2	52.229.0.0/18
uswest2	52.232.152.0/24
uswest2	52.233.64.0/18
uswest2	52.235.64.0/18
uswest2	52.239.148.128/25
uswest2	52.239.176.128/25
uswest2	52.239.193.0/24
uswest2	52.239.210.0/23
uswest2	52.239.236.0/23
uswest2	52.245.52.0/22
uswest2	52.246.192.0/18
uswest2	52.247.192.0/18
uswest2	52.250.0.0/17
uswest2	65.52.111.0/24
uswest2	65.54.247.128/25
uswest2	65.55.2.0/24
uswest2	65.55.32.128/28
uswest2	65.55.32.192/27
uswest2	65.55.32.224/28
uswest2	65.55.33.176/28

uswest2	65.55.33.192/28
uswest2	65.55.35.192/27
uswest2	65.55.44.8/29
uswest2	65.55.44.112/28
uswest2	65.55.51.0/24
uswest2	65.55.60.128/27
uswest2	65.55.105.128/26
uswest2	65.55.106.192/28
uswest2	65.55.106.240/28
uswest2	65.55.107.0/27
uswest2	65.55.107.32/28
uswest2	65.55.107.96/27
uswest2	65.55.107.128/25
uswest2	65.55.110.0/24
uswest2	65.55.120.0/24
uswest2	65.55.189.128/25
uswest2	65.55.207.0/24
uswest2	65.55.209.0/25
uswest2	65.55.210.0/24
uswest2	65.55.211.64/26
uswest2	65.55.212.32/27
uswest2	65.55.213.32/27
uswest2	65.55.213.192/26
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uswest2	65.55.219.64/26
uswest2	65.55.250.0/24
uswest2	65.55.252.0/24
uswest2	70.37.0.0/21
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uswest2	70.37.16.0/20
uswest2	70.37.32.0/20
uswest2	104.44.89.128/27
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uswest2	131.253.12.160/28
uswest2	131.253.12.228/30
uswest2	131.253.13.24/29
uswest2	131.253.13.88/30
uswest2	131.253.13.112/28

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uswest2	131.253.24.16/28
uswest2	131.253.24.32/27
uswest2	131.253.24.64/26
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uswest2	131.253.35.0/25
uswest2	131.253.35.128/26
uswest2	131.253.38.64/27
uswest2	131.253.38.96/29
uswest2	131.253.40.48/29
uswest2	131.253.40.128/27
uswest2	131.253.41.0/24
uswest2	134.170.222.0/23
uswest2	137.116.176.0/21
uswest2	157.55.2.128/26
uswest2	157.55.12.64/26
uswest2	157.55.13.64/26
uswest2	157.55.39.0/24
uswest2	157.55.55.128/29
uswest2	157.55.55.184/29
uswest2	157.55.55.228/30
uswest2	157.55.55.232/29
uswest2	157.55.55.240/28
uswest2	157.55.106.0/26
uswest2	157.55.154.128/25
uswest2	157.56.1.0/24
uswest2	157.56.2.0/25
uswest2	157.56.3.128/25
uswest2	157.56.19.224/27
uswest2	157.56.21.32/27
uswest2	157.56.21.64/26
uswest2	157.56.21.128/26
uswest2	157.56.21.192/27

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uswest2	168.62.64.0/19
uswest2	191.232.137.0/24
uswest2	191.237.224.0/21
uswest2	191.237.244.0/22
uswest2	191.239.196.0/24
uswest2	191.239.197.0/28
uswest2	199.30.24.0/23
uswest2	199.30.27.0/25
uswest2	199.30.27.144/28
uswest2	199.30.27.160/27
uswest2	199.30.27.192/26
uswest2	199.30.31.0/24
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uswest2	207.68.174.0/29
uswest2	207.68.174.56/29
uswest2	207.68.174.64/29
uswest2	207.68.174.96/28
uswest2	207.68.174.168/29
uswest2	207.68.174.176/29
uswest2	207.68.174.192/28
uswest2	209.240.212.0/23
uswest	13.64.0.0/16
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uswest	13.83.0.0/16
uswest	13.86.128.0/17
uswest	13.87.128.0/17
uswest	13.88.0.0/17
uswest	13.88.128.0/18
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uswest	13.91.0.0/16
uswest	13.93.128.0/17
uswest	13.104.144.192/27
uswest	20.43.192.0/18
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uswest	20.184.128.0/17
uswest	20.187.128.0/17
uswest	20.189.128.0/18
uswest	20.190.132.0/24
uswest	23.99.0.0/18
uswest	23.99.64.0/19
uswest	23.100.32.0/20
uswest	23.101.192.0/20

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uswest	40.78.0.0/17
uswest	40.78.216.0/24
uswest	40.80.152.0/21
uswest	40.81.0.0/20
uswest	40.82.124.0/22
uswest	40.82.248.0/21
uswest	40.83.128.0/17
uswest	40.85.144.0/20
uswest	40.86.160.0/19
uswest	40.87.160.0/22
uswest	40.90.17.96/27
uswest	40.90.18.128/26
uswest	40.90.22.128/25
uswest	40.90.23.0/25
uswest	40.90.25.192/26
uswest	40.90.128.128/28
uswest	40.90.131.192/27
uswest	40.90.135.0/26
uswest	40.90.139.192/27
uswest	40.90.146.0/28
uswest	40.90.148.128/27
uswest	40.90.153.96/27
uswest	40.90.156.128/26
uswest	40.112.128.0/17
uswest	40.118.128.0/17
uswest	40.125.32.0/19
uswest	40.126.4.0/24
uswest	52.108.0.0/21
uswest	52.109.0.0/22
uswest	52.114.152.0/21
uswest	52.114.184.0/23
uswest	52.115.56.0/22
uswest	52.115.60.0/23
uswest	52.137.128.0/17
uswest	52.153.0.0/18
uswest	52.155.32.0/19
uswest	52.157.0.0/18
uswest	52.159.128.0/17
uswest	52.160.0.0/16
uswest	52.180.0.0/17
uswest	52.190.128.0/17
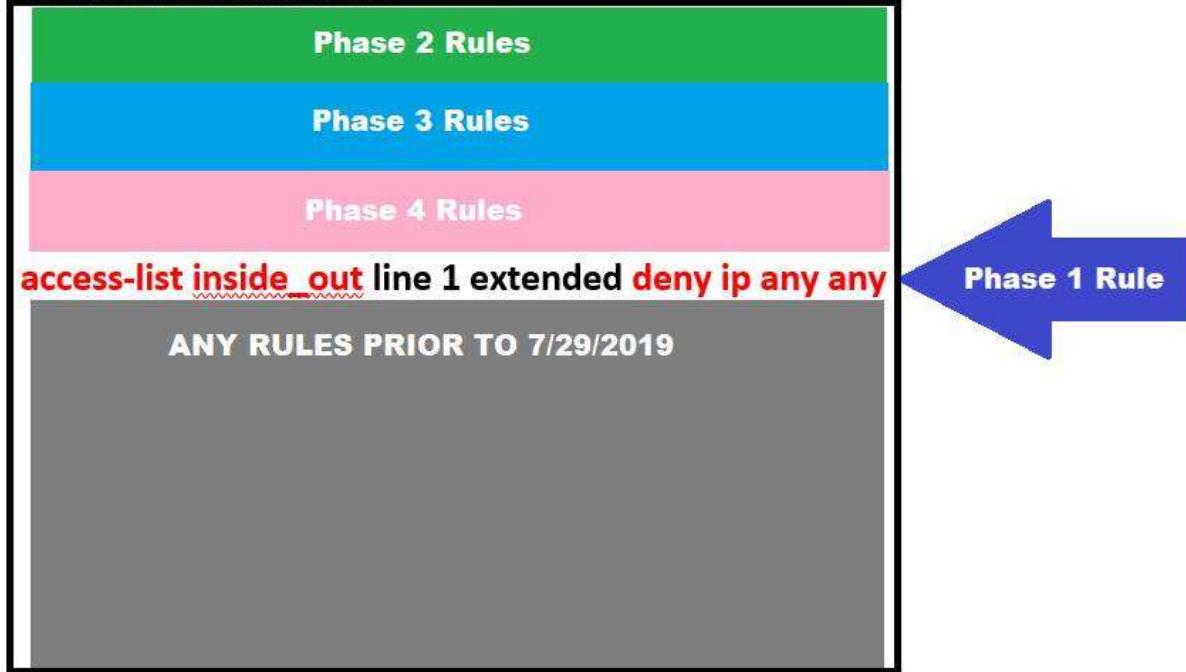
uswest	52.225.0.0/17
uswest	52.232.149.0/24
uswest	52.234.0.0/17
uswest	52.238.0.0/18
uswest	52.239.0.0/17
uswest	52.239.160.0/22
uswest	52.239.228.0/23
uswest	52.239.254.0/23
uswest	52.241.0.0/16
uswest	52.245.12.0/22
uswest	52.245.108.0/22
uswest	52.246.0.0/17
uswest	52.248.128.0/17
uswest	52.250.192.0/18
uswest	52.254.128.0/17
uswest	65.52.112.0/20
uswest	104.40.0.0/17
uswest	104.42.0.0/16
uswest	104.44.88.0/27
uswest	104.44.91.0/27
uswest	104.44.92.96/27
uswest	104.44.94.0/28
uswest	104.44.95.128/27
uswest	104.45.208.0/20
uswest	104.45.224.0/19
uswest	104.209.0.0/18
uswest	104.210.32.0/19
uswest	137.116.184.0/21
uswest	137.117.0.0/19
uswest	137.135.0.0/18
uswest	138.91.64.0/19
uswest	138.91.128.0/17
uswest	157.56.160.0/21
uswest	168.61.0.0/19
uswest	168.61.64.0/20
uswest	168.62.0.0/19
uswest	168.62.192.0/19
uswest	168.63.88.0/23
uswest	191.233.8.0/21
uswest	191.236.64.0/18
uswest	191.238.70.0/23
uswest	191.239.0.0/18

Below is an example of what the configuration process would look like on a Cisco Firewall

**Note this is an example only, and is not meant to be a step by step configuration for your environment/device.

Sample of an existing firewall configuration (before any Phases have been implemented):

access-list inside_out line 1 extended permit tcp object-group SPECIAL_DEVICES any eq http
access-list inside_out line 2 extended deny ip object-group SuspiciousRanges any
access-list inside_out line 3 extended permit tcp object-group any WebServers object-group WebProtocols
access-list inside_out line 4 extended permit tcp object-group MailRelay object-group MailServer object-group MailProtocols

New Example Configuration with Internet Block (Phase 1):

access-list inside_out line 1 extended deny ip any any <---- This would be the new line added to TOP of config, ie. Line 1
access-list inside_out line 2 extended permit tcp object-group SPECIAL_DEVICES any eq http
access-list inside_out line 3 extended deny ip object-group SuspiciousRanges any
access-list inside_out line 4 extended permit tcp object-group any WebServers object-group WebProtocols
access-list inside_out line 5 extended permit tcp object-group MailRelay object-group MailServer object-group MailProtocols

New Example Configuration with Initial Services Allowed (Phase 2 – all new ACL's to be added above new line added during Phase 1):

access-list inside_out line 1 extended permit tcp object-group [YourDNSServerIP] object-group [DNSServers] eq 53 <---- New line for DNS

access-list inside_out line 2 extended permit udp any host pool.ntp.org eq 123 <---- *New line for NTP*
access-list inside_out line 3 extended permit tcp object-group [YourExchangeServers] object-group
[ExternalSMTP] eq 25<---- *New line for SMTP*
access-list inside_out line 4 extended permit ip any object-group [StateLouisiana] <---- *New line for State of*
Louisiana IP Access
access-list inside_out line 5 extended deny ip any any <---- *All Phase 2 added above this line.*
access-list inside_out line 6 extended permit tcp object-group SPECIAL_DEVICES any eq http
access-list inside_out line 7 extended deny ip object-group SuspiciousRanges any
access-list inside_out line 8 extended permit tcp object-group any WebServers object-group WebProtocols
access-list inside_out line 9 extended permit tcp object-group MailRelay object-group MailServer object-group
MailProtocols