Network Architecture

Application Project: WSS 3.0 at Fort Collins for Development

File Name: WSS 3.3.0 NITC-HA-DEV Network Diagram_20180427.vsd		Agency: NRCS
Web Farm Environment: FTCDEV	Request for Change	Creation Date: 02/21/2013
	RFC #(n/a)	eAuthentication: Level 2
	RFC Approval: xx/xx/xx	Page 1 of 1
	CCB Approval: xx/xx/xx	

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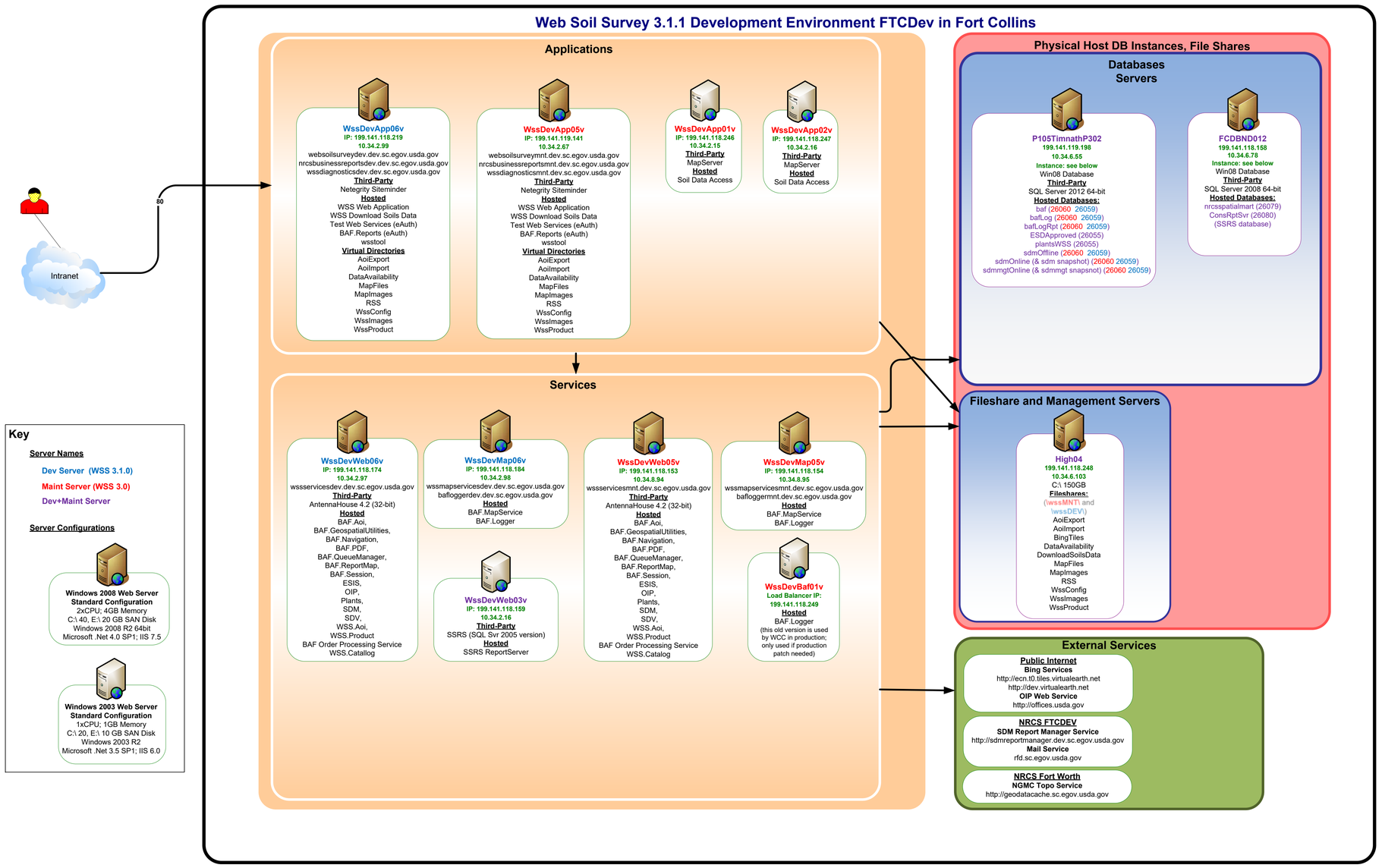
REV.	DESCRIPTION	DATE	BY
1.0	Created initial diagram	02/21/2013	MS
1.1	As-built for WSS 3.1 (DEV) / 3.0 (Maint)	03/27/2014	PA
1.2	As-built for WSS 3.1.Dev/WSS 3.1.1 (Maint)	7/23/2014	PA



Key

Server Names

- Dev Server (WSS 3.1.0)
- Maint Server (WSS 3.0)
- Dev+Maint Server

Server Configurations

Windows 2008 Web Server
Standard Configuration
2xCPU; 4GB Memory
C:\ 40, E:\ 20 GB SAN Disk
Windows 2008 R2 64bit
Microsoft .Net 4.0 SP1; IIS 7.5

Windows 2003 Web Server
Standard Configuration
1xCPU; 1GB Memory
C:\ 20, E:\ 10 GB SAN Disk
Windows 2003 R2
Microsoft .Net 3.5 SP1; IIS 6.0

Network Architecture

Application Project: WSS 3.1.1 at NITC-HA-Development

File Name: WSS 3.1 NITC-HA-DEV Network Diagram_20151102.vsd		Agency: NRCS
Web Farm Environment: FTCDEV	Request for Change	Creation Date: 02/21/2013
	RFC #(n/a)	eAuthentication: Level 2
	RFC Approval: xx/xx/xx	Page 2 of 1
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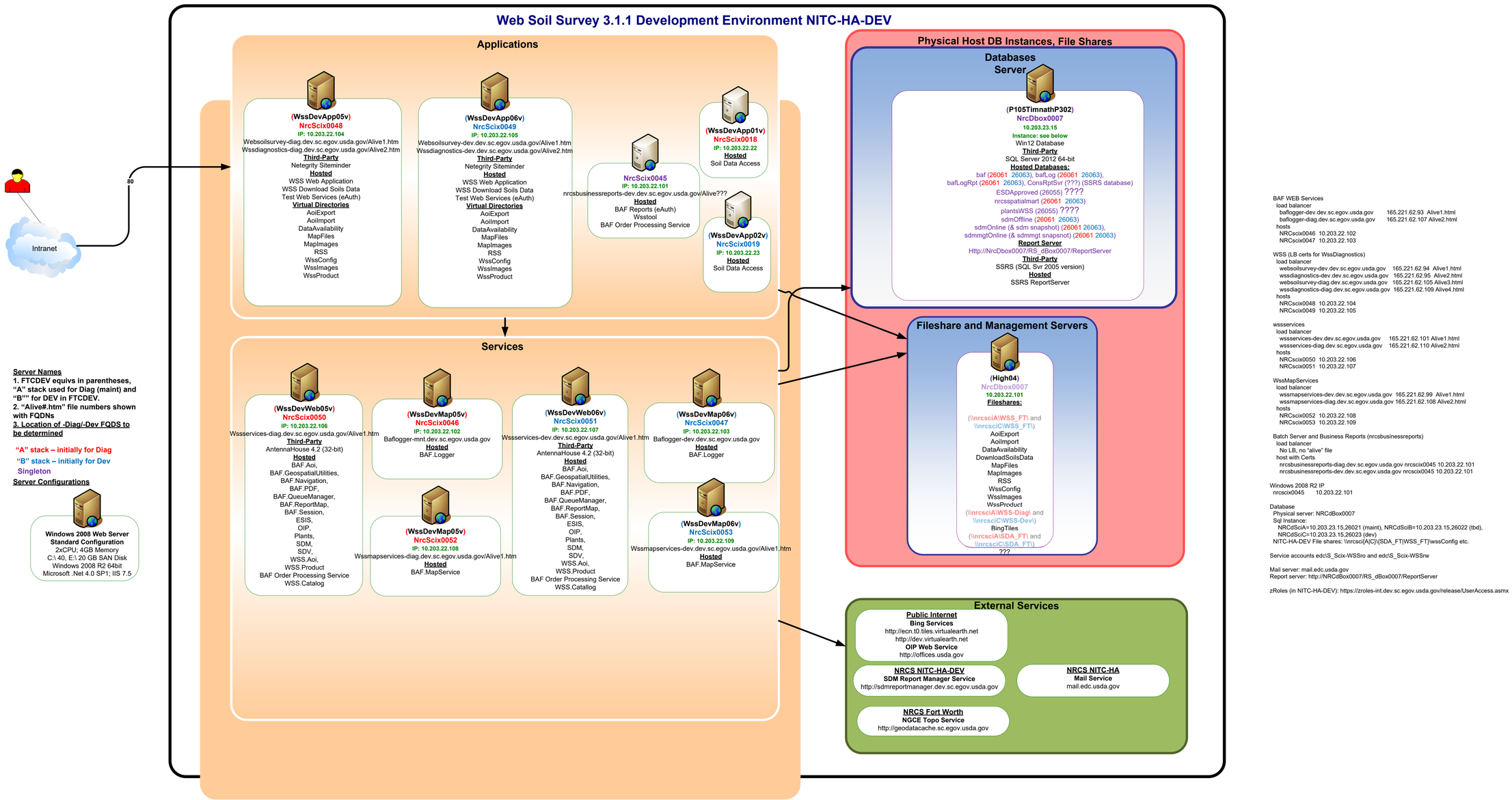
REV.	DESCRIPTION	DATE	BY
1.0	Created initial diagram	02/21/2013	MS
1.1	As-built for WSS 3.1 (DEV) / 3.0 (Maint)	03/27/2014	PA
1.2	As-built for WSS 3.1.Dev/WSS 3.1.1 (Maint)	7/23/2014	PA
2.0	Initial migration to NITC-HA-DEV	10/28/2015	PA



Server Names
1. FTCDEV equivs in parentheses, "A" stack used for Diag (maint) and "B"" for DEV in FTCDEV.
2. "Alive#.htm" file numbers shown with FQDNs
3. Location of -Diag/-Dev FQDS to be determined

"A" stack – initially for Diag
"B" stack – initially for Dev
Singleton

Server Configurations

Windows 2008 Web Server Standard Configuration
2xCPU; 4GB Memory
C:\ 40, E:\ 20 GB SAN Disk
Windows 2008 R2 64bit
Microsoft .Net 4.0 SP1; IIS 7.5

BAF WEB Services
load balancer
baflogger-dev.dev.sc.egov.usda.gov 165.221.62.93 Alive1.html
baflogger-diag.dev.sc.egov.usda.gov 165.221.62.107 Alive2.html
hosts
NRCscix0046 10.203.22.102
NRCscix0047 10.203.22.103

WSS (LB certs for WssDiagnostics)
load balancer
websoilsurvey-dev.dev.sc.egov.usda.gov 165.221.62.94 Alive1.html
wssdiagnostics-dev.dev.sc.egov.usda.gov 165.221.62.95 Alive2.html
websoilsurvey-diag.dev.sc.egov.usda.gov 165.221.62.105 Alive3.html
wssdiagnostics-diag.dev.sc.egov.usda.gov 165.221.62.109 Alive4.html
hosts
NRCscix0048 10.203.22.104
NRCscix0049 10.203.22.105

wssservices
load balancer
wssservices-dev.dev.sc.egov.usda.gov 165.221.62.101 Alive1.html
wssservices-diag.dev.sc.egov.usda.gov 165.221.62.110 Alive2.html
hosts
NRCscix0050 10.203.22.106
NRCscix0051 10.203.22.107

WssMapServices
load balancer
wssmapservices-dev.dev.sc.egov.usda.gov 165.221.62.99 Alive1.html
wssmapservices-diag.dev.sc.egov.usda.gov 165.221.62.108 Alive2.html
hosts
NRCscix0052 10.203.22.108
NRCscix0053 10.203.22.109

Batch Server and Business Reports (nrcsbusinessreports)
load balancer
No LB, no "alive" file
host with Certs
nrcsbusinessreports-diag.dev.sc.egov.usda.gov nrcscix0045 10.203.22.101
nrcsbusinessreports-dev.dev.sc.egov.usda.gov nrcscix0045 10.203.22.101

Windows 2008 R2 IP
nrcscix0045 10.203.22.101

Database
Physical server: NRCdBox0007
Sql Instance:
NRCdSciA=10.203.23.15,26021 (maint), NRCdSciB=10.203.23.15,26022 (tbd),
NRCdSciC=10.203.23.15,26023 (dev)
NITC-HA-DEV File shares: \\nrcsci[A|C]\{SDA_FT|WSS_FT}\wssConfig etc.

Service accounts edc\S_Scix-WSSro and edc\S_Scix-WSSrw

Mail server: mail.edc.usda.gov
Report server: http://NRCdBox0007/RS_dBox0007/ReportServer

zRoles (in NITC-HA-DEV): https://zroles-int.dev.sc.egov.usda.gov/release/UserAccess.asmx

:Command=ListChildren

&rs:Command=ListChildren

hosts
NRCscix0098 10.203.22.192
NRCscix0097 10.203.22.191

WSS (LB certs for WssDiagnostics)
load balancer
websoilsurvey-dev.dev.sc.egov.usda.gov 165.221.62.94 Alive1.html
wssdiagnostics-dev.dev.sc.egov.usda.gov 165.221.62.95 Alive2.html
websoilsurvey-diag.dev.sc.egov.usda.gov 165.221.62.105 Alive3.html
wssdiagnostics-diag.dev.sc.egov.usda.gov 165.221.62.109 Alive4.html
hosts
NRCscix0096 10.203.22.190
NRCscix0095 10.203.22.189

wssservices
load balancer
wssservices-dev.dev.sc.egov.usda.gov 165.221.62.101 Alive1.html
wssservices-diag.dev.sc.egov.usda.gov 165.221.62.110 Alive2.html
hosts
NRCscix0100 10.203.22.196
NRCscix0099 10.203.22.193

WssMapServices
load balancer
wssmapservices-dev.dev.sc.egov.usda.gov 165.221.62.99 Alive1.html
wssmapservices-diag.dev.sc.egov.usda.gov 165.221.62.108 Alive2.html
hosts
NRCscix0102 10.203.22.200
NRCscix0101 10.203.22.199

Batch Server and Business Reports (nrcsbusinessreports)
load balancer
No LB, no “alive” file
host with Certs
nrcsbusinessreports-diag.dev.sc.egov.usda.gov nrcscix0103 10.203.22.201
nrcsbusinessreports-dev.dev.sc.egov.usda.gov nrcscix0103 10.203.22.201

Windows 2016 IP
nrcscix0103 10.203.22.201

Database
Physical server: NRCdBox0007
Sql Instance:
NRCdSciDiag=10.203.23.15,26021 (diag), NRCdSciDev=10.203.23.15,26022 (int) – not used
NRCdSciTest=10.203.23.15,26023 (dev)
NITC-HA-DEV File shares: \\NRCdBox0007\NRCDSCI{Diag|Test}\{SDA_FT|WSS_FT}\WssConfig etc.

Service accounts: edc\S_Scix-WSSro and edc\S_Scix-WSSrw

Mail server: mail.edc.usda.gov
Report server: http://10.203.23.15:80/RS_dBox0007 and
http://10.203.23.15/
RS_dBox0007?%2fNRCS+Business+Reports%2fSoils%2fWeb+Soil+Survey&rs:Command=ListChildren

zRoles (in NITC-HA-DEV): https://zroles-int.dev.sc.egov.usda.gov/release/UserAccess.asmx

Network Architecture

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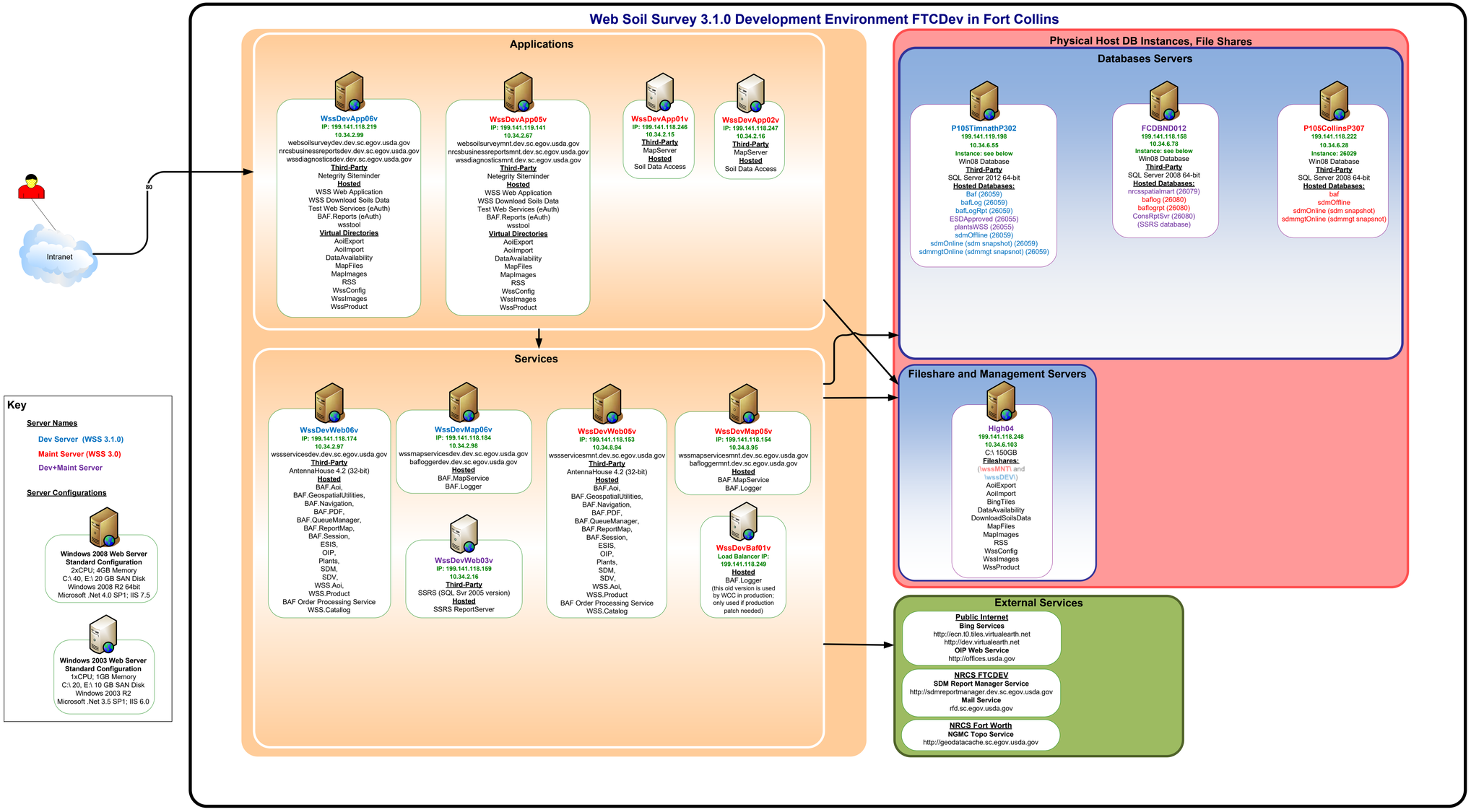

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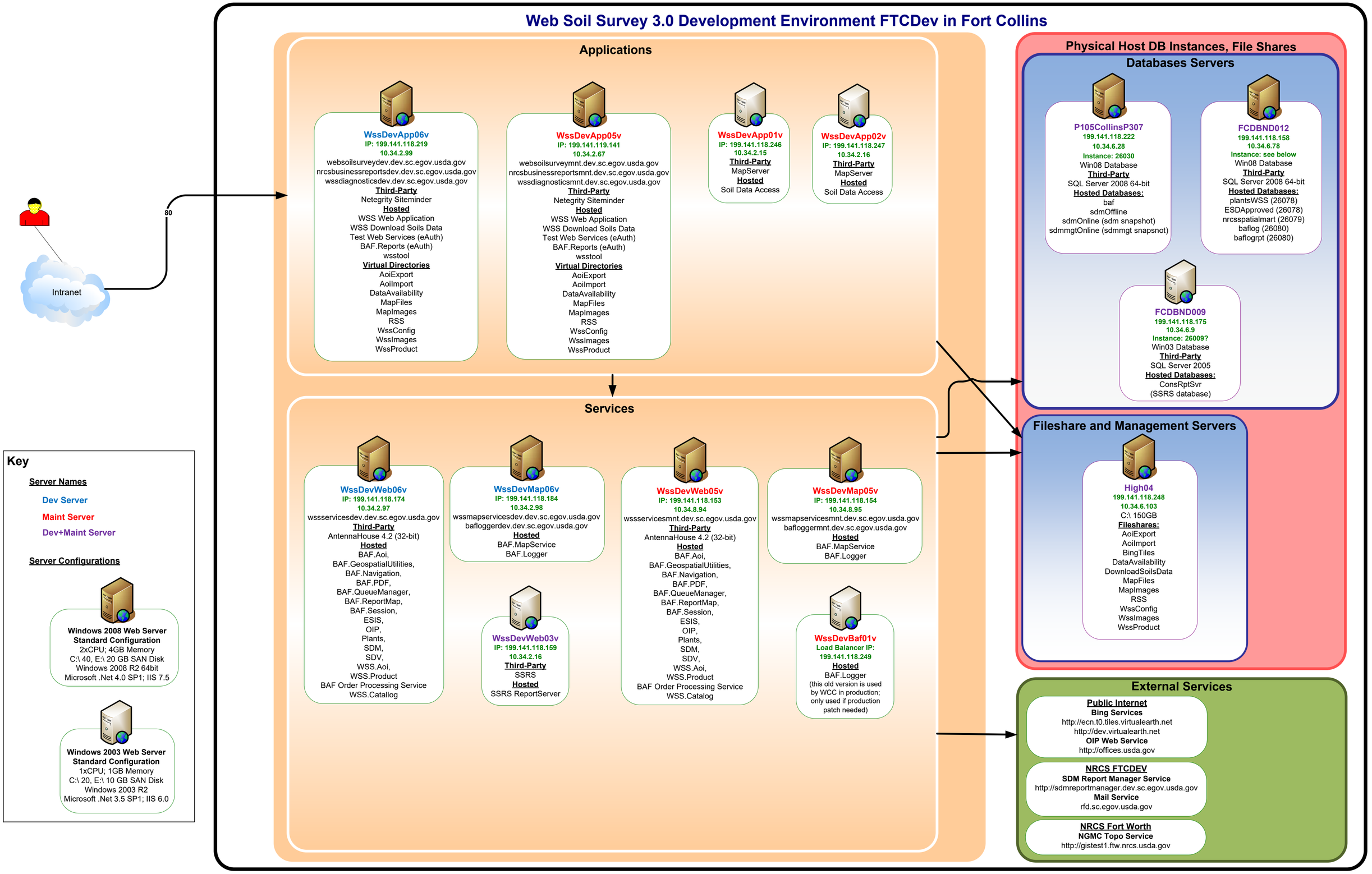
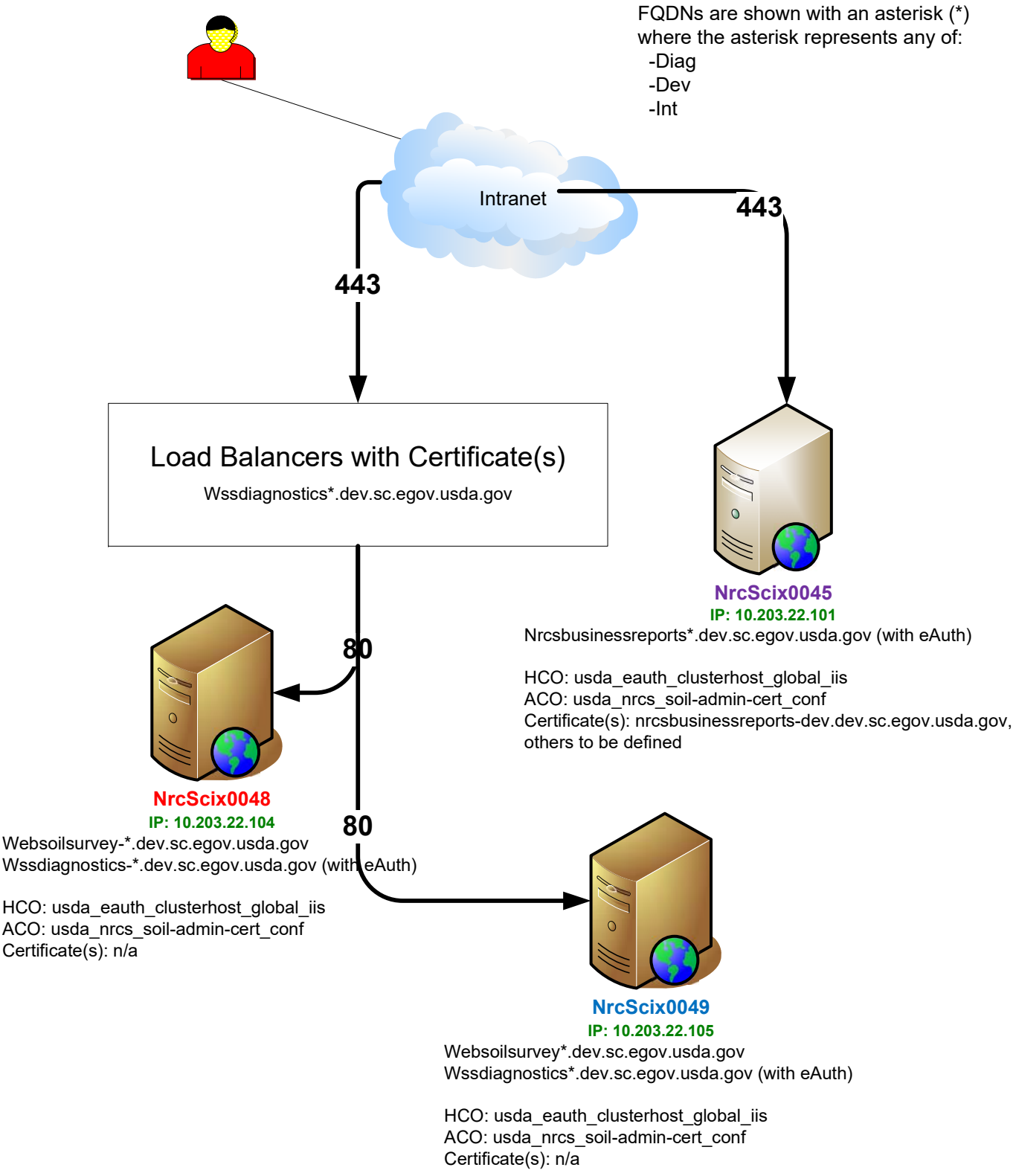
Web Soil Survey NITC-HA-DEV eAuth-related configuration