

Python, the IT management "Esperant of the IT management"



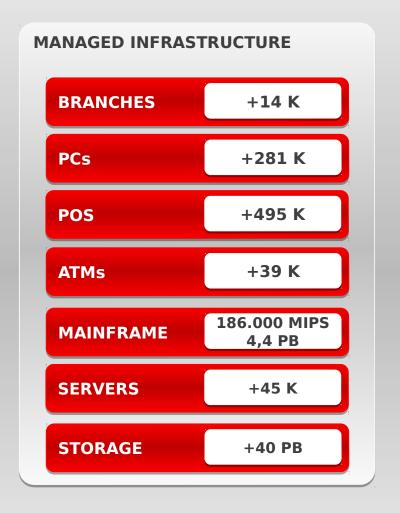


Author: Themeplus

Produban Overview Our Environment

Produban @ glance





Name it: We have it.



Huge regulatory framework... and growing



Winds of change

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Solutions

Standardization, Industrialization and Automation



X86 REFERENCE ARCHITECTURE



PRIVATE CLOUD REFERENCE ARCHITECTURE



PRODUBAN MANAGEMENT FRAMEWORK



CLOUD END USER SERVICES REFERENCE
ARCHITECTURE
IT as a SERVICE

OpenSource Iniciatives







A long last mile























We're not a software company but...

```
## IP Addresses
   IPAddresses=$( nnet -c -H | awk -F "," '$5 !~ /127.0.0.1/ && $5 !~ /0.0.0.0/ {print $5", "}' | sort | sed -e
    "s/\"/q" | tr '\r' '\n' | tr -d '\n' | sed -e "s/, $//q" | sed -e "s/,/q" )
IPAddressesBL="${IPAddresses}"
   IPAddressesAIE=$( echo "${IPAddresses}" | awk '{ print substr($0,1,255) }')
   if [ "${OS}" = "AIX" ] || [ "${OS}" = "HP-UX" ] || [ "${OS}" = "Linux" ] || [ "${OS}" = "Solaris" ]
       #/etc/resolv.conf Filas que empiezan por nameserver
       if [ -f /etc/resolv.conf ]
           DNS=$( cat /etc/resolv.conf | grep -e "^nameserver" | awk '{print $2", "}' | sort | uniq | tr '\r' '\n' |
           tr -d '\n' | sed -e "s/, $//q" | sed -e "s/,//q" )
           DNS="PRB-BL-DNS:Data Not Retrieved - /etc/resolv.conf does not exist"
       fi
   elif [ "${OS}" = "Windows" ]
           DNS=$( nexec ${ServerName} cmd /C ipconfig /all | grep -i 'DNS Servers' | awk -F ": " '{print $2", "}' |
   sort | tr '\r' '\n' | tr -d '\n' | sed -e "s/, $//q" | sed -e "s/.//q" )
   ## DNS=$( nexec ${ServerName} cmd /C ipconfig /all | grep -A 1 -i 'DNS Servers' | sed -e "s/DNS Servers//g" |
    sed -e "s/\. //g" | sed -e "s/ ://g" | sed -e "s/^[ ]*//g" -e "s/$/ /g" | sort | uniq | tr '\r' '\n' | tr -d '\n'
    | sed -e "s/ $//g" )
       DNS=$( nexec ${ServerName} cmd /C ipconfig /all | awk 'BEGIN {x=0}
           if ($0 ~ /DNS Servers/)
               print "<-DNS->"$0
               x = 1
           if ($0 !~ /\:/ && x == 1)
               print "<-DNSBlanco->: "$0
           else
       }' | awk -F ": " '{print $2}' | grep '.' | tr -d '\t' | tr -d ' ' | sort | uniq | tr '\n' ' ' | sed "s/ $//g" )
   echo "Fin DNS"
    ## FQDN Service
   echo "Inicio FODN Service"
```

Code

- Adaptability
- Brief
- Consistency
- Correctness
- Extensibility
- Fast
- Flexible

- Generic
- Modular
- Orthogonal
- Parameterization
- Simplicity
- Stable

PyEsperanto



Why?

- Remember: we're not developers
 - Dynamic typing is cool
 - Laziness: write less code
- We do care our infraestructure
 - Java is cool for portability not efficiency / low latency exec
 - And what about C++? Sure, we do it on assembly all the way long
 - Perl? See the next point

Why?

- Only way way to do it... but do it right.
 - Help me to unify the way we do.
 - '(/[^.-\s]/)?(s.[^a-z0-9\s].\$_=unpack"B*",\$&;y;01;\n`;;lc.ge,y.`-z0-9.ajzges}mqo{hrkxypibuw|vntfdc@PX\\^_OGCA.,s-\S-(unpack"B*",
 \$&)." "-ge,s-\b01+0--g,y,01,-.,):(y,-.,01,,s,([01]+),0 .1x(6-length\$1).0 .\$1,ge,s-\b([01]+) ?-pack"B*",\$1-ge,y.ajzges}mqo{hrkxypibuw|
 vntfdc@PX\\^ OGCA.`-z0-9.,s-([\n`]{8})-\$ =\$1;y;\n`;01;;pack"B*",\$ -ge)'&& You fit it in 4
 - Ruby? One way... despitePythonAndRubyAreConverging
- There is a lot of sysadmin related contain
 - Just the OS module makes make day.
- So... The Zen of Python!

Work in progress

P-API

A main library of common use 'last mile' functionality and integration helper

Automation Community

Online tools & Evangelism

Building Content

Sysadmins are selfish []

Questions?

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