CSCI4113

**LAB3 Notes**

## Milan Formanek February 19, 2019

1.

For this assignment a puppet script was created and uploaded to github. The scipt is then downloaded and deployed to each machine through an ssh session. The script is identical on machines A to D with an added section creating the shares for machine E. Below is the procedure of deploying the puppet script on machines A-D.

1

[ root@machinea ~]# wget -O site.pp 'https:// bit.ly/2Se1S7D '

--2019 -02 -18 23:35:24 -- https:// bit.ly/2 Se1S7D

Resolving bit.ly ( bit.ly)... 67.199.248.11 , 67.199.248.10 Connecting to bit.ly ( bit.ly)|67.199.248.11|:443... connected. HTTP request sent , awaiting response... 301 Moved Permanently

Location: https:// raw. githubusercontent. com/ mformanek/ LSA/ master/st\_pc.pp [ following]

--2019 -02 -18 23:35:24 -- https:// raw. githubusercontent. com/ mformanek/ LSA/ master/st\_pc.pp Resolving raw. githubusercontent. com ( raw. githubusercontent. com)... 151.101.68.133

Connecting to raw. githubusercontent. com ( raw. githubusercontent. com)|151.101.68.133|:443... connected. HTTP request sent , awaiting response... 200 OK

Length: 4166 (4.1 K) [ text/ plain] Saving to: ‘site.’pp

100%[====================================== >] 4 ,166

--.-K/s in 0s

2019 -02 -18 23:35:24 (24.9 MB/s) - ‘site.’pp saved [4166 / 4166]

[ root@machinea ~]# puppet apply site.pp

Notice: Compiled catalog for machinea. dundermifflin. com in environment production in 0.33 seconds Notice: / Stage[ main]/ Main/ User[ mformanek]/ ensure: created

Notice: / Stage[ main]/ Main/ User[ dphilbin]/ ensure: created Notice: / Stage[ main]/ Main/ User[ mpalmer]/ ensure: created Notice: / Stage[ main]/ Main/ User[ pbeesly]/ ensure: created Notice: / Stage[ main]/ Main/ Group[ managers]/ ensure: created Notice: / Stage[ main]/ Main/ User[ dschrute]/ ensure: created Notice: / Stage[ main]/ Main/ Group[ sales]/ ensure: created Notice: / Stage[ main]/ Main/ User[ plapin]/ ensure: created Notice: / Stage[ main]/ Main/ User[ abernard]/ ensure: created Notice: / Stage[ main]/ Main/ User[ tflenderson]/ ensure: created Notice: / Stage[ main]/ Main/ User[ shudson]/ ensure: created Notice: / Stage[ main]/ Main/ User[ cbratton]/ ensure: created Notice: / Stage[ main]/ Main/ User[ jhalpert]/ ensure: created Notice: / Stage[ main]/ Main/ User[ kkapoor]/ ensure: created Notice: / Stage[ main]/ Main/ User[ mscott]/ ensure: created Notice: / Stage[ main]/ Main/ Group[ accounting]/ ensure: created Notice: / Stage[ main]/ Main/ User[ kmalone]/ ensure: created Notice: / Stage[ main]/ Main/ User[ omartinez]/ ensure: created Notice: / Stage[ main]/ Main/ User[ amartin]/ ensure: created Notice: Finished catalog run in 0.84 seconds

[ root@machineb ~]# ls / home

abernard dphilbin kkapoor mpalmer pbeesly tflenderson amartin dschrute kmalone mscott plapin

cbratton jhalpert mformanek omartinez shudson [ root@machinea ~]#

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The puppet script *site.pp* consists of 3 main parts.

## group

The group section creates the user groups managers, sales and accounting. The gid is set to be fixed in order to be consistent across all machines.

## user

This section creates the individual users as specified in the lab manual. Groups, pass- words, shells and uids are set for the users. The setting managehome is set to true in order to create the individual user directories in /home/. Uids are set to be unique for each user, in the thousands for the users and in the hundreds for me as the administrator.

## file

This part of the script is only deployed to machine E the file server. The 3 shared directories for managers, accounting and sales are created here. Each share is set to be owned by the manager of the individual division and it’s group. Mode is set to 3770 allowing the owner and group read, write and execute privileges as well as setting the setgid and sticky bits.

# 2. site.pp

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# Create Users and User Groups on all the machines

group { 'managers': ensure => 'present', gid => 2001 ,

}

group { 'sales': ensure => 'present', gid => 2002 ,

}

group { ' accounting': ensure => 'present', gid => 2003 ,

}

user { 'mscott':

ensure => 'present', comment => 'M Scott', managehome => true , password => '!!', groups => 'managers',

shell => '/ bin/ bash',

uid => '3001 ',

}

user { 'dschrute':

ensure => 'present', comment => 'D Schrute', managehome => true , password => '!!',

groups => 'managers',

shell => '/ bin/ bash',

uid => '3002 ',

}

user { 'jhalpert':

ensure => 'present', comment => 'J Halpert', managehome => true , password => '!!',

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| --- | --- | --- | --- |
| 43 | groups | => 'managers', | |
| 44 | shell | => '/ bin/ bash', | |
| 45  46  48  49  50  51  52  53  54 | uid => '3003 ',  }  user { 'pbeesly':  ensure => 'present', comment => 'P Beesly', managehome => true , password => '!!',  shell => '/ bin/ bash',  uid => '3004 ', | | |
| 55 | } | |  |
| 56 |  | |  |
| 57 | user { 'abernard | | ': |
| 58 | ensure => | | 'present', |
| 59 | comment => | | 'A Bernard', |
| 60 | managehome => | | true , |
| 61 | password => | | '!!', |
| 62 | groups => | | 'sales', |
| 63 | shell => | | '/ bin/ bash', |
| 64  65 | uid => '3005 ',  } | | |
| 66 |  | |  |
| 67 | user { 'amartin': | |  |
| 68 | ensure => | | 'present', |
| 69 | comment => | | 'A Martin', |
| 70 | managehome => | | true , |
| 71 | password => | | '!!', |
| 72 | groups => | | 'accounting', |
| 73 | shell => | | '/ bin/ bash', |
| 74  75 | uid => '3006 ',  } | | |
| 76 |  | |  |
| 77 | user { 'kkapoor': | |  |
| 78 | ensure => | | 'present', |
| 79 | comment => | | 'K Kapoor', |
| 80 | managehome => | | true , |
| 81 | password => | | '!!', |
| 82 | shell => | | '/ bin/ bash', |
| 83  84  86 | uid => '3007 ',  }  user { 'omartinez': | | |
| 87 | ensure => | | 'present', |
| 88 | comment => | | 'O Martinez', |
| 89 | managehome => | | true , |
| 90 | password => | | '!!', |
| 91 | groups => | | 'accounting', |
| 92 | shell => | | '/ bin/ bash', |
| 93  94 | uid => '3008 ',  } | | |
| 95 |  | |  |
| 96 | user { 'dphilbin': | |  |
| 97 | ensure => | | 'present', |
| 98 | comment => | | 'D Philbin', |
| 99 | managehome => | | true , |
| 100 | password => | | '!!', |
| 101 | shell => | | '/ bin/ bash', |
| 102  103  105 | uid => '3009 ',  }  user { ' tflenderson': | | |
| 106 | ensure => | | 'present', |
| 107 | comment => | | 'T Flenderson', |
| 108 | managehome => | | true , |
| 109 | password => | | '!!', |
| 110 | shell => | | '/ bin/ bash', |
| 111  112 | uid => '3010 ',  } | | |
| 113 |  | |  |
| 114 | user { 'kmalone': | |  |
| 115 | ensure => | | 'present', |
| 116 | comment => | | 'K Malone', |
| 117 | managehome => | | true , |
| 118 | password => | | '!!', |
| 119 | groups => | | 'accounting', |
| 120 | shell => | | '/ bin/ bash', |
| 121  122 | uid => '3011 ',  } | | |
| 123 |  | |  |
| 124 | user { 'plapin': | |  |
| 125 | ensure => | | 'present', |

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}

}

}

}

E

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| --- | --- | --- |
| 126 | comment => | 'P Lapin', |
| 127 | managehome => | true , |
| 128 | password => | '!!', |
| 129 | groups => | 'sales', |
| 130  131  132 | shell =>  uid => | '/ bin/ bash', '3012 ', |
| 133 |  |  |
| 134 | user { 'shudson': |  |
| 135 | ensure => | 'present', |
| 136 | comment => | 'S Hudson', |
| 137 | managehome => | true , |
| 138 | password => | '!!', |
| 139 | groups => | 'sales', |
| 140  141  142 | shell =>  uid => | '/ bin/ bash', '3013 ', |
| 143 |  |  |
| 144 | user { 'mpalmer': |  |
| 145 | ensure => | 'present', |
| 146 | comment => | 'M Palmer', |
| 147 | managehome => | true , |
| 148 | password => | '!!', |
| 149  150  151 | shell =>  uid => | '/ bin/ bash', '3014 ', |
| 152 |  |  |
| 153 | user { 'cbratton': |  |
| 154 | ensure => | 'present', |
| 155 | comment => | 'C Bratton', |
| 156 | managehome => | true , |
| 157 | password => | '!!', |
| 158  159  160 | shell =>  uid => | '/ bin/ bash', '3015 ', |
| 161 | user { 'mformanek': | |
| 162 | ensure => 'present', | |
| 163 | comment => 'M Formanek', | |
| 164 | managehome => true , | |
| 165 | password => '!!', | |
| 166  167  168  170  172  173  174  175  176  177  179  180  181  182  183  184  186  187  188  189  190  191 | shell => '/ bin/ bash',  uid => '251 ',  }  # Only for file server - Machine file { '/ home/ managers':  ensure => 'directory', owner => 'mscott', group => 'managers', mode => '3770 ',  }  file { '/ home/ accounting': ensure => 'directory', owner => 'amartin', group => ' accounting', mode => '3770 ',  }  file { '/ home/ sales': ensure => 'directory', owner => 'abernard', group => 'sales', mode => '3770 ',  } | |

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