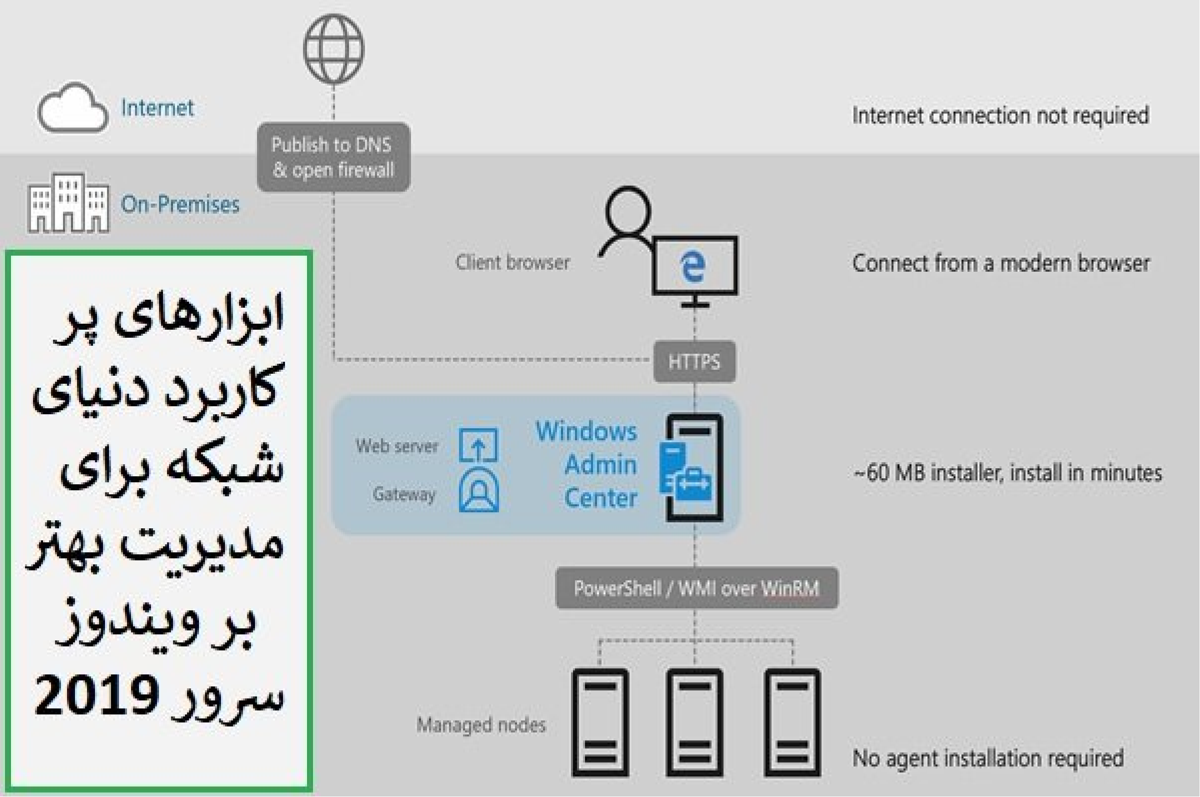
27 – [illegible]

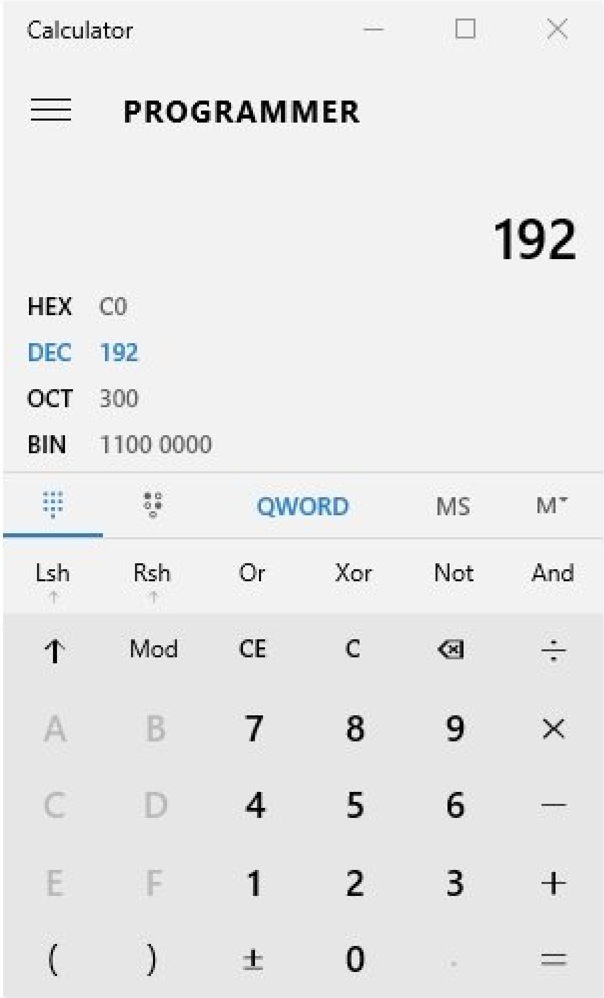
[illegible] IPv6 [illegible] 2019


Internet
Publish to DNS & open firewall
Internet connection not required
On-Premises
Client browser
Connect from a modern browser
HTTPS
Web server
Gateway
Windows Admin Center
~60 MB installer, install in minutes
PowerShell / WMI over WinRM
Managed nodes
No agent installation required
ابزارهای پر کاربرد دنیای شبکه برای مدیریت بهتر بر ویندوز سرور 2019

[illegible]. [illegible].

[illegible] 2019 [illegible].

[illegible] 1 [illegible]. [illegible] IPv4 [illegible] 32 [illegible]. [illegible] Programmer [illegible]. [illegible]. [illegible] 192.168.1.5 [illegible]. [illegible] IPv6 [illegible] IPv6 [illegible] IPv4 [illegible]. [illegible] 192 [illegible] HEX [illegible]. [illegible] 192 [illegible]:



192

HEX C0
DEC 192
OCT 300
BIN 1100 0000

[illegible] IPv4 [illegible]:

```
192 = C0
168 = A8
1 = 01
5 = 05
```

[illegible] 192.168.1.5 [illegible] IPv6 [illegible] C0A8: 0105 [illegible]. [illegible]
[illegible] IPv6 [illegible]
[illegible].

2001:AABB:CCDD:0001:0000:0000:C0A8:0105

[illegible] IPv6 [illegible]
[illegible]. [illegible] 64 [illegible]
[illegible] IPv4 [illegible] 32 [illegible] 32 [illegible]. [illegible]
[illegible]. [illegible]
[illegible] 1 [illegible]
[illegible].
[illegible]. [illegible]

[illegible]

2001:AABB:CCDD:1:0:0:C0A8:0105

[illegible]

2001:AABB:CCDD:0001:0000:0000:C0A8:0105
2001:AABB:CCDD:1::C0A8:0105

[illegible]

2001:0000:0000:0000:0000:0000:0000:0001
2001::1

[illegible]

[illegible]

[illegible]

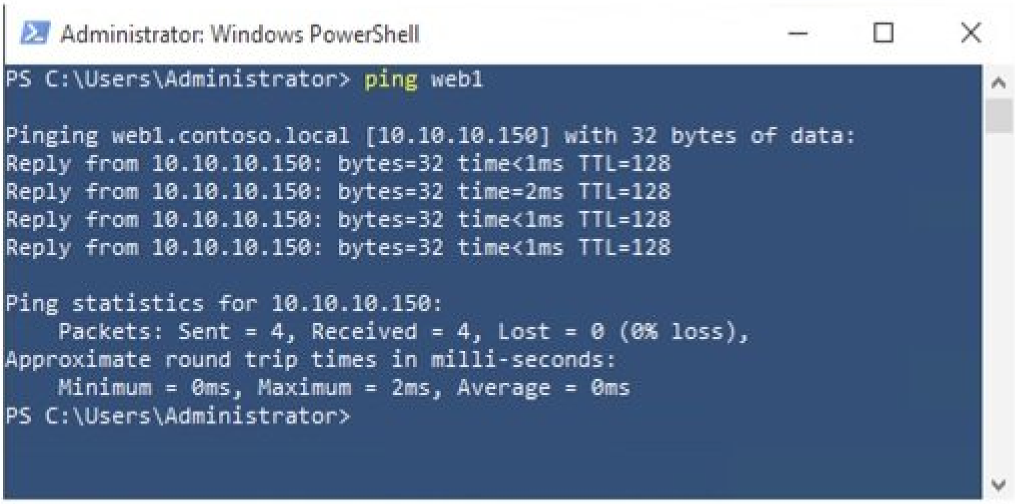
- ping
- tracert
- pathping
- Test-Connection
- telnet
- Test-NetConnection

[illegible]

Ping

[illegible]

[illegible]. [illegible] 10 [illegible] <IP_ADDRESS> [illegible]. [illegible] DNS [illegible] SERVERNAME>> [illegible] ping [illegible].



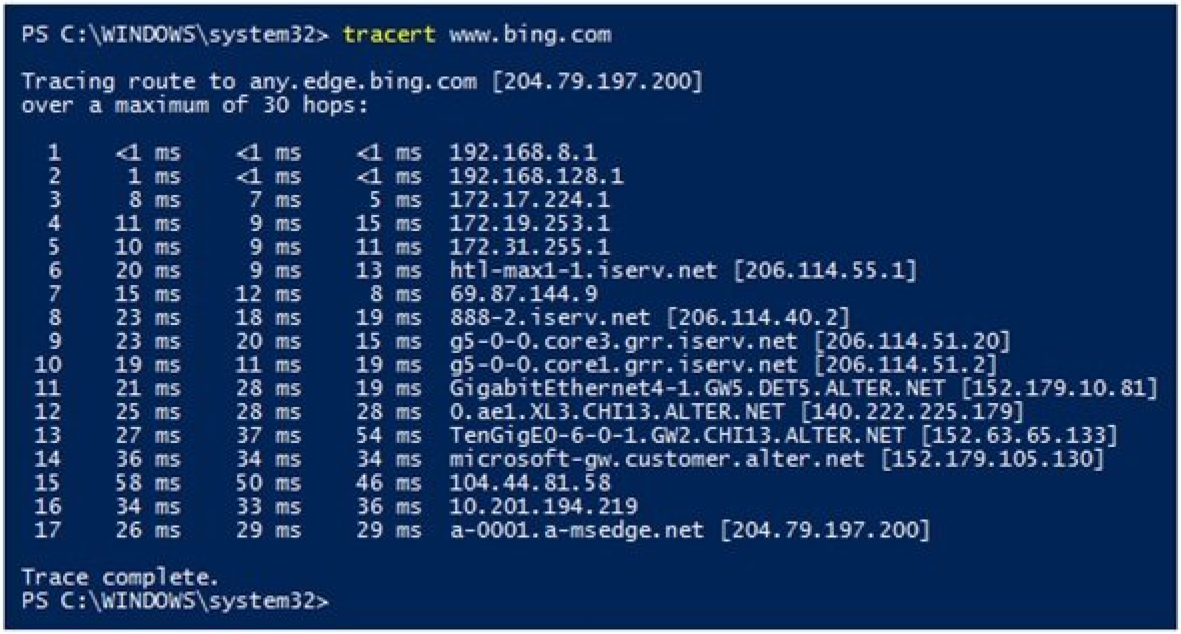
```
PS C:\Users\Administrator> ping web1

Pinging web1.contoso.local [10.10.10.150] with 32 bytes of data:
Reply from 10.10.10.150: bytes=32 time<1ms TTL=128
Reply from 10.10.10.150: bytes=32 time=2ms TTL=128
Reply from 10.10.10.150: bytes=32 time<1ms TTL=128
Reply from 10.10.10.150: bytes=32 time<1ms TTL=128

Ping statistics for 10.10.10.150:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms
PS C:\Users\Administrator>
```

[illegible] ICMP [illegible]. [illegible] ICMP [illegible] ICMP [illegible]. [illegible]. [illegible]. [illegible] ICMP [illegible]. [illegible] ICMP [illegible]. [illegible].

[illegible] Advanced Security [illegible] ICMP [illegible]. [illegible] Group Policy [illegible] GPO [illegible]. [illegible] GPO [illegible]. [illegible] ICMP [illegible] Group Policy [illegible].

Tracert

tracert [illegible] Trace Route [illegible]. [illegible]. [illegible]. [illegible] Trace [illegible]. [illegible] Tracert [illegible] Bing [illegible].

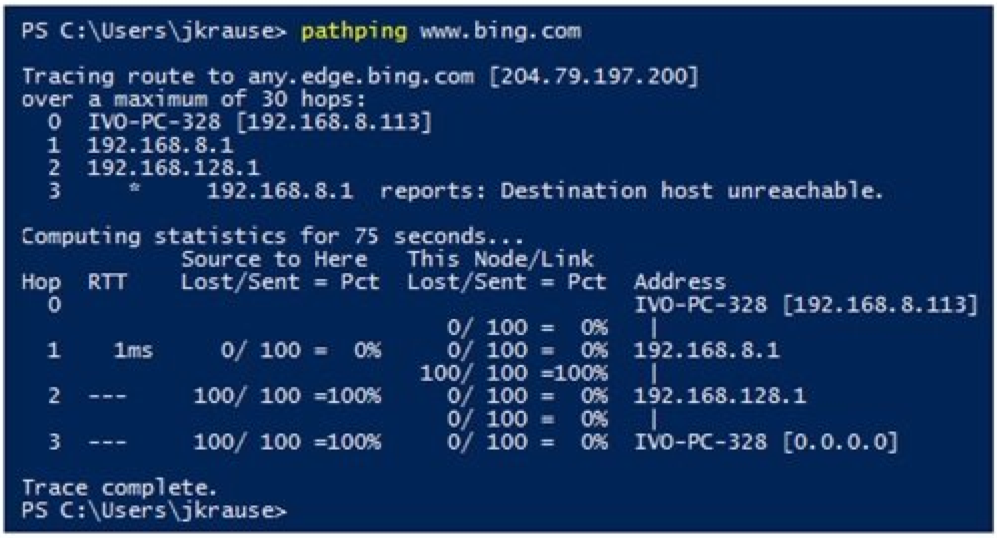


```
PS C:\WINDOWS\system32> tracert www.bing.com

Tracing route to any.edge.bing.com [204.79.197.200]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  192.168.8.1
  2     1 ms    <1 ms    <1 ms  192.168.128.1
  3     8 ms     7 ms     5 ms  172.17.224.1
  4    11 ms     9 ms    15 ms  172.19.253.1
  5    10 ms     9 ms    11 ms  172.31.255.1
  6    20 ms     9 ms    13 ms  htl-max1-1.iserv.net [206.114.55.1]
  7    15 ms    12 ms     8 ms  69.87.144.9
  8    23 ms    18 ms    19 ms  888-2.iserv.net [206.114.40.2]
  9    23 ms    20 ms    15 ms  g5-0-0.core3.grr.iserv.net [206.114.51.20]
 10    19 ms    11 ms    19 ms  g5-0-0.core1.grr.iserv.net [206.114.51.2]
 11    21 ms    28 ms    19 ms  GigabitEthernet4-1.GW5.DET5.ALTER.NET [152.179.10.81]
 12    25 ms    28 ms    28 ms  0.ae1.XL3.CHI13.ALTER.NET [140.222.225.179]
 13    27 ms    37 ms    54 ms  TenGigE0-6-0-1.GW2.CHI13.ALTER.NET [152.63.65.133]
 14    36 ms    34 ms    34 ms  microsoft-gw.customer.alter.net [152.179.105.130]
 15    58 ms    50 ms    46 ms  104.44.81.58
 16    34 ms    33 ms    36 ms  10.201.194.219
 17    26 ms    29 ms    29 ms  a-0001.a-msedge.net [204.79.197.200]

Trace complete.
PS C:\WINDOWS\system32>
```

[illegible] Bing [illegible] www.bing.com [illegible]

Pathping

tracert [illegible] Pathping [illegible] pathping [illegible] pathping [illegible] tracert [illegible] tracert [illegible] pathping [illegible]

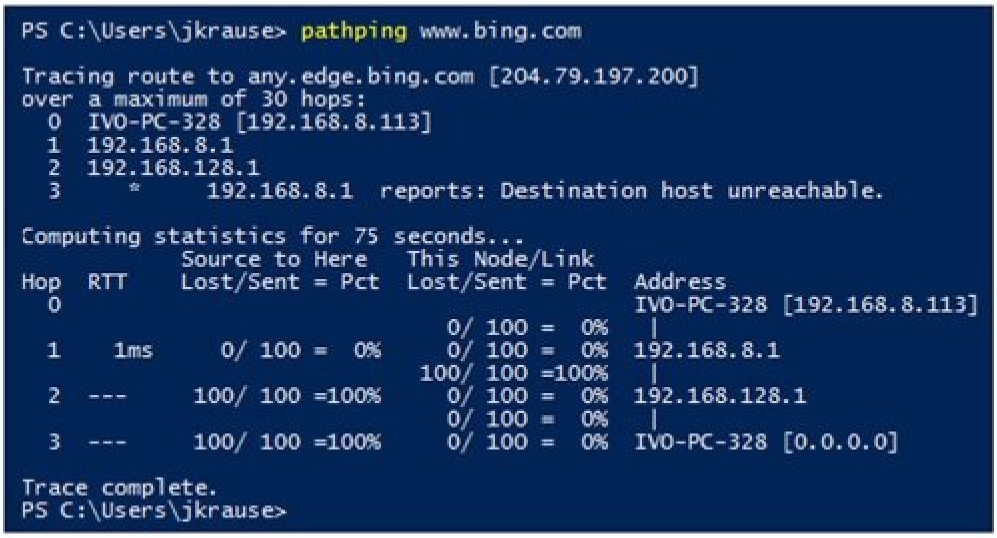


```
PS C:\Users\jkrause> pathping www.bing.com

Tracing route to any.edge.bing.com [204.79.197.200]
over a maximum of 30 hops:
  0  IVO-PC-328 [192.168.8.113]
  1  192.168.8.1
  2  192.168.128.1
  3     *      192.168.8.1  reports: Destination host unreachable.

Computing statistics for 75 seconds...
            Source to Here   This Node/Link
Hop  RTT    Lost/Sent = Pct  Lost/Sent = Pct  Address
  0                                           IVO-PC-328 [192.168.8.113]
                                0/ 100 =  0%   |
  1    1ms     0/ 100 =  0%     0/ 100 =  0%  192.168.8.1
                              100/ 100 =100%   |
  2  ---     100/ 100 =100%     0/ 100 =  0%  192.168.128.1
                                0/ 100 =  0%   |
  3  ---     100/ 100 =100%     0/ 100 =  0%  IVO-PC-328 [0.0.0.0]

Trace complete.
PS C:\Users\jkrause>
```

[illegible] tracert [illegible] time out [illegible]
pathping [illegible] time out [illegible]

[illegible] pathping [illegible]

[illegible] pathping [illegible]
[illegible] tracert [illegible]:



```
PS C:\Users\jkrause> pathping www.bing.com

Tracing route to any.edge.bing.com [204.79.197.200]
over a maximum of 30 hops:
  0  IVO-PC-328 [192.168.8.113]
  1  192.168.8.1
  2  192.168.128.1
  3     *      192.168.8.1  reports: Destination host unreachable.

Computing statistics for 75 seconds...
            Source to Here   This Node/Link
Hop  RTT    Lost/Sent = Pct  Lost/Sent = Pct  Address
  0                                           IVO-PC-328 [192.168.8.113]
                                0/ 100 =  0%   |
  1    1ms     0/ 100 =  0%     0/ 100 =  0%  192.168.8.1
                              100/ 100 =100%   |
  2  ---     100/ 100 =100%     0/ 100 =  0%  192.168.128.1
                                0/ 100 =  0%   |
  3  ---     100/ 100 =100%     0/ 100 =  0%  IVO-PC-328 [0.0.0.0]

Trace complete.
PS C:\Users\jkrause>
```

در شماره آینده آموزش رایگان **ویندوز سرور 2019** مبحث فوق را ادامه خواهیم رفت.

[illegible] **2019** [illegible]:

[illegible] 2019

[illegible]:

[illegible]

[illegible]:

[illegible]

[illegible]:

12:05 - 01/07/1398

[illegible]:

IPv6 - 2019 [illegible] - 2019 [illegible] - Windows Server 2019 - [illegible] - 2019 - 2019 [illegible] - IPv6 [illegible] - ping [illegible] - TRACERT [illegible] - Pathping [illegible]

[illegible]

[illegible]:https://www.shabakeh-mag.com/networking-technology/16045/%D9%81%D8%B1%D8%A2%DB%8C%D9%86%D8%AF-%D9%85%D8%AD%D8%A7%D8%B3%D8%A8%D9%87-%D8%A2%D8%AF%D8%B1%D8%B3-%D9%87%D8%A7%DB%8C-ipv6-%D9%88-%D8%A2%D8%B4%D9%86%D8%A7%DB%8C%DB%8C-%D8%A8%D8%A7-%DA%86%D9%86%D8%AF-%D8%A7%D8%A8%D8%B2%D8%A7%D8%B1-%D9%86%D8%B8%D8%A7%D8%B1%D8%AA-%D8%A8%D8%B1-%D8%B4%D8%A8%DA%A9%D9%87%E2%80%8C%D9%87%D8%A7%DB%8C