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Episode #63

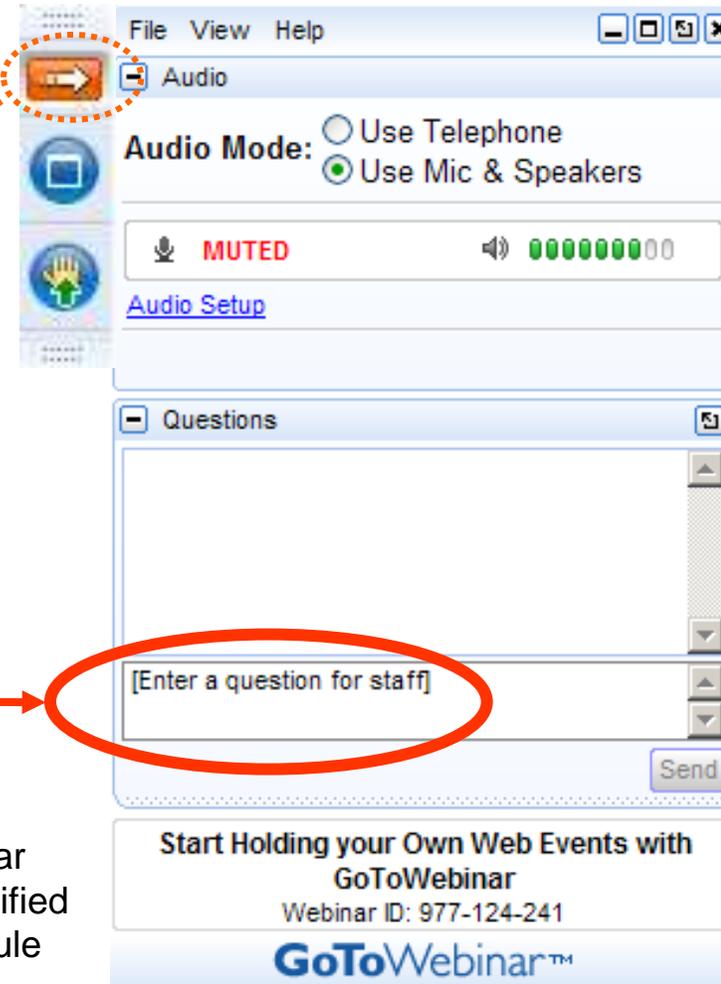
IT Month

# Practical Applications & Installations

# Your questions please?

(if you don't see the control panel, click on the orange arrow icon to expand it)

Please enter your questions in the text box of the webinar control panel (remember to press send)



The screenshot shows a GoToWebinar control panel window. At the top, there is a menu bar with 'File', 'View', and 'Help'. Below the menu bar, there is a vertical sidebar with several icons. The top icon is an orange arrow pointing right, which is circled in red and has a dotted orange line extending from it. Below this are icons for a computer monitor, a hand with a green arrow, and a globe. The main content area is divided into two sections. The top section is titled 'Audio' and contains 'Audio Mode' options: 'Use Telephone' (unselected) and 'Use Mic & Speakers' (selected). Below this is a 'MUTED' indicator with a microphone icon and a volume level indicator showing 00. A link for 'Audio Setup' is also present. The bottom section is titled 'Questions' and contains a large text input field with the placeholder text '[Enter a question for staff]'. This text box is circled in red and has a solid red arrow pointing to it from the left. To the right of the text box is a 'Send' button. At the bottom of the window, there is a promotional banner for 'GoToWebinar' with the text 'Start Holding your Own Web Events with GoToWebinar' and 'Webinar ID: 977-124-241'.

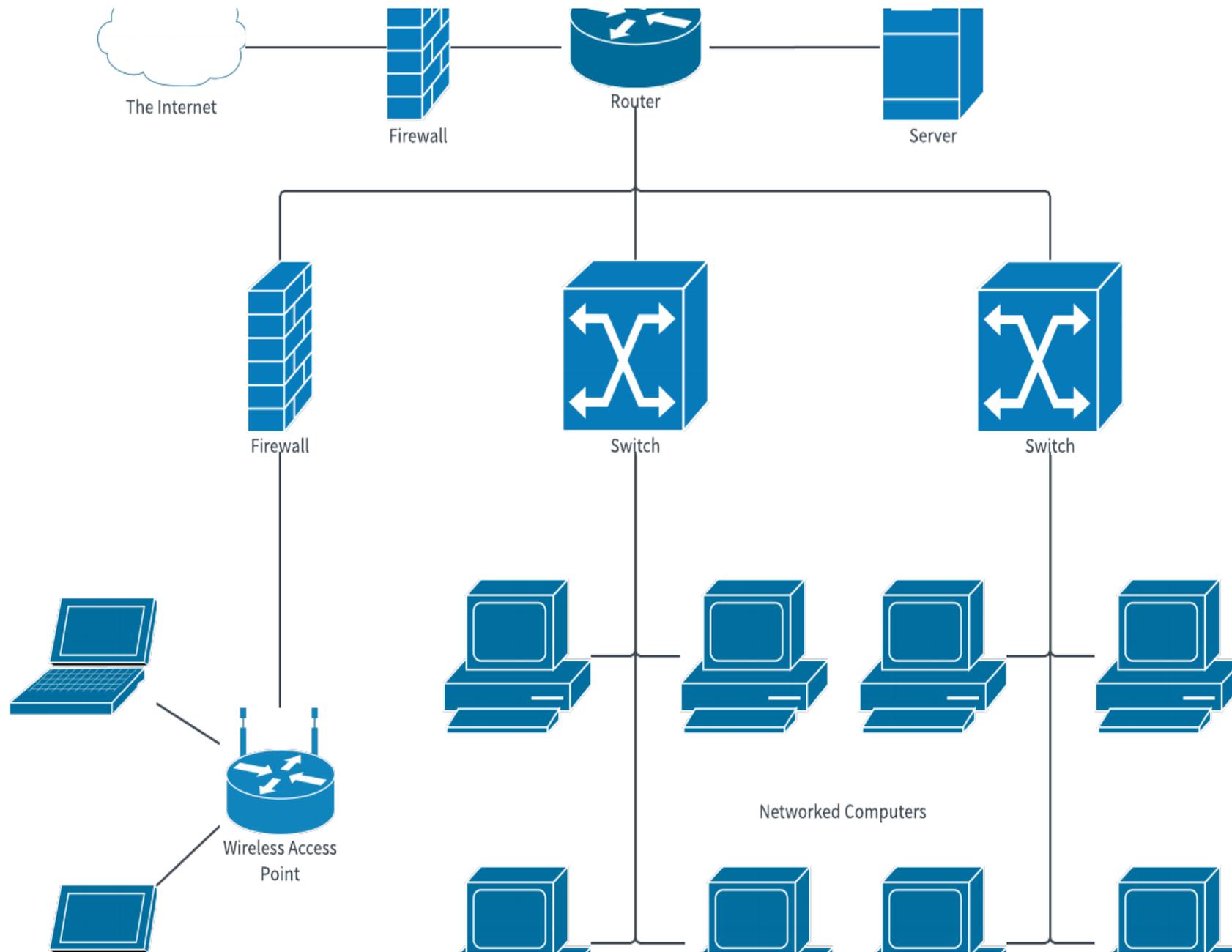


Remember: The completion of a Nautel webinar qualifies for  $\frac{1}{2}$  SBE re-certification credit, identified under Category I of the Re-certification Schedule for SBE Certifications.



# Ideas for things to cover

- Partitioning – subnets, multiple domains, public IP or private network?
- Zero Trust vs. BYOD
  - Security vs. convenience
- Security
  - Firewalls
  - VPNs, VNC or both?
  - Air Gaps
  - Education
- Other items
  - Cost vs. functionality vs. security
  - Layers



<https://www.edrawmax.com/network-diagram/how-to-draw-a-network-diagram/>





# RIPR IP Address Schema - public copy



File Edit View Insert Format Data Tools Add-ons Help Last edit was made yesterday at 2:10 PM by Tech RIPR

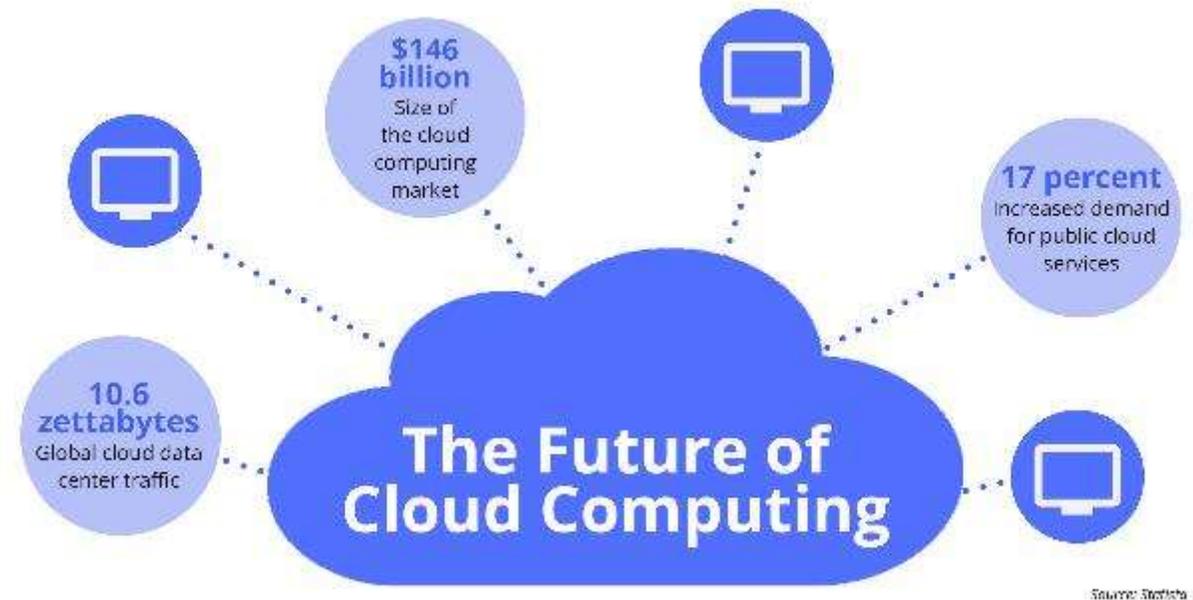
100% \$ % .0 .00 123 Arial 10 B I S A

	A	B	C	D	E	F	G	H	I	U
1	Location	ISP	IP	SUBDOMAIN	DESCRIPT	GATEWAY	MASK	DNS1	DNS2	
2	1 Union Stn	OSHEAN	1	18	ABS-managed Barracuda	17	255.255.255.240	159.199.119.71	159.199.119.72	
3	1 Union Stn	OSHEAN	1	19		17	255.255.255.240	71	72	
4	1 Union Stn	OSHEAN	1	20	iPort1US	17	255.255.255.240	71	72	
5	1 Union Stn	OSHEAN	1	21	<a href="#">on.org</a> 89.3 IP Codec ETH0	17	255.255.255.240	71	72	
6	1 Union Stn	OSHEAN	1	22	89.3 UMD BRIC Link II	17	255.255.255.240	71	72	
7	1 Union Stn	OSHEAN	1	23	<a href="#">on.org</a> 88.1 IP Codec	17	255.255.255.240	71	72	
8	1 Union Stn	OSHEAN	1	24	<a href="#">hpn.org</a> 102.7 IP Codec	17	255.255.255.240	71	72	
9	1 Union Stn	OSHEAN	1	25	No.PVD Bkup BRIC Link II	17	255.255.255.240	71	72	
10	1 Union Stn	OSHEAN	4	26	<a href="#">org</a> Telos Z/IPstream webcast	17	255.255.255.240	71	72	
11	1 Union Stn	OSHEAN	1	27	StudioB BRIC Link II	17	255.255.255.240	71	72	
12	1 Union Stn	OSHEAN	1	28	89.3 HD2 BRIC Link II	17	255.255.255.240	71	72	
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14	1 Union Stn	OSHEAN	1	30		17	255.255.255.240	71	72	
15	1110 Douglas	OSHEAN	1	132	<a href="#">n.org</a> 1290 WAN x3	129	255.255.255.240	71	72	
16	1110 Douglas	OSHEAN	1	133		129	255.255.255.240	71	72	
17	1110 Douglas	OSHEAN	1	134		129	255.255.255.240	71	72	
18	1110 Douglas	OSHEAN	1	135		129	255.255.255.240	71	72	
19	1110 Douglas	OSHEAN	1	136		129	255.255.255.240	71	72	
20	1110 Douglas	OSHEAN	1	137		129	255.255.255.240	71	72	
21	1110 Douglas	OSHEAN	1	138		129	255.255.255.240	71	72	
22	1110 Douglas	OSHEAN	1	139		129	255.255.255.240	71	72	
23	1110 Douglas	OSHEAN	1	140		129	255.255.255.240	71	72	
24	1110 Douglas	OSHEAN	1	141		129	255.255.255.240	71	72	
25	1110 Douglas	OSHEAN	1	142		129	255.255.255.240	71	72	
26										



# What is the “Cloud”?

- Virtualization vs Cloud based
  - Public cloud vs private
  - VMWare vs private server
  - On premises vs off prem
  - Security thoughts?
  - Redundancy discussion
  - How reliable is six 9s reliability if a backhoe cuts the fiber?



Source: <https://www.westagilelabs.com/blog/cloud-computing-is-the-future-of-enterprise-application-platform/>



The best security in the world is of no use if the doors are unlocked when the intruder comes calling.

Photo from Crawford Media Group's January engineering newsletter

## Centrally managed security

“Your device is temporarily blocked from synchronizing using Exchange ActiveSync until your administrator grants it access.”

Zero Trust vs. BYOD



# Education

Good Morning,

To whom it may concern,

I want to make an enquiry but am confused on the exact person to contact. The email i contacted bounced back as failure delivery.

Please advice on the above need.

Thank You

Dear [jwelton@nautel.com](mailto:jwelton@nautel.com), Your password will expire in 24hours. To continue using your current password, please follow the link below.

[Keep My Password](#)

Note: Take action now or you will lose access to your emails and files.

Remediation efforts found that the cause of this detection was unauthorized software that had been previously installed on the computer. As per our Computer Usage Policy:

**“Users may not install software onto their individual computers or the network without first receiving authorization to do so from IT...”**



## Sign in to view your fax / E1 Document

Your E1 fax is now available in the Microsoft inbox center. Sign in to view it. If you've already review, disregard this email.

[View your fax >](#)



I try to keep track of all the vulnerabilities, but it's getting harder and harder as time passes. RedHat alone sends out as many as a dozen reports a day; most are for minor bug fixes, but a few are true show-stoppers. As I write this, I just installed a newly-patched Linux kernel on our web server. All of those RedHat advisories made me suspect that it was time to upgrade. Indeed it was.

Stephen Poole, from Crawford Media Group's January engineering newsletter



# Online Information



## **Webinars**

<https://www.nautel.com/resources/webinars/>



## **Nautel Waves Newsletter**

<https://www.nautel.com/newsletters/>



## **YouTube**

<http://www.youtube.com/user/NautelLtd>



## **Online Info, such as the Broadcasters' Desktop Resource**

<https://www.thebdr.net/>



# THANK YOU!

